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**In your requests please include the following reference number 78EE117C99-1982520916**

## Contents

- 1.1 javax-inject 1**
  - 1.1.1 Available under license
- 1.2 commons-exec 1.0.1**
  - 1.2.1 Available under license
- 1.3 commons-configuration 1.8**
  - 1.3.1 Available under license
- 1.4 commons-net 3.3**
  - 1.4.1 Available under license
- 1.5 geoup-api 1.2.11**
  - 1.5.1 Available under license
- 1.6 commons-collections 3.2.2**
  - 1.6.1 Available under license
- 1.7 jzlib 1.1.3**
  - 1.7.1 Available under license
- 1.8 annotations 3.0.1**
  - 1.8.1 Available under license
- 1.9 httpasyncclient 4.1.1**
  - 1.9.1 Available under license
- 1.10 httpcore-nio 4.4.4**
  - 1.10.1 Available under license
- 1.11 logback-core 1.2.3**
  - 1.11.1 Available under license
- 1.12 annotations 13.0**
  - 1.12.1 Available under license
- 1.13 hdrhistogram 2.1.9**
  - 1.13.1 Available under license

- 1.14 assertj-core 3.9.1**
  - 1.14.1 Available under license
- 1.15 jboss-logging 3.3.2.Final**
  - 1.15.1 Available under license
- 1.16 httpcomponents-core 4.4.10**
  - 1.16.1 Available under license
- 1.17 derby 10.14.2.0**
  - 1.17.1 Available under license
- 1.18 failureaccess 1.0.1**
- 1.19 commons-io 2.6**
  - 1.19.1 Available under license
- 1.20 commons-pool 2.6.2**
- 1.21 j2objc-annotations 1.3**
  - 1.21.1 Available under license
- 1.22 commons-beanutils 1.9.4**
  - 1.22.1 Available under license
- 1.23 commons-collections 4.4**
  - 1.23.1 Available under license
- 1.24 janino 2.6.1**
- 1.25 hystrix-core 1.5.12**
- 1.26 jopt-simple 5.0.2**
- 1.27 guice 4.0**
  - 1.27.1 Available under license
- 1.28 jline 2.14.6**
- 1.29 commons-compiler 2.6.1**
- 1.30 istack-commons 2.13**
- 1.31 guice-assistedinject 4.0**
  - 1.31.1 Available under license
- 1.32 archaius-core 0.6.6**
- 1.33 jsr305 3.0.1**
- 1.34 guice-multibindings 4.0**
  - 1.34.1 Available under license
- 1.35 hamcrest 1.3**
  - 1.35.1 Available under license
- 1.36 apiguardian-api 1.1.0**
  - 1.36.1 Available under license
- 1.37 httpcomponents-client 4.5.6**
  - 1.37.1 Available under license
- 1.38 big-math 2.0.0**

- 1.38.1 Available under license
- 1.39 jaxb-core 2.2.6**
  - 1.39.1 Available under license
- 1.40 okhttp 2.7.5**
  - 1.40.1 Available under license
- 1.41 mime-pull 1.9.13**
  - 1.41.1 Available under license
- 1.42 c3p0 0.9.5.4**
  - 1.42.1 Available under license
- 1.43 feign-core 8.15.1**
  - 1.43.1 Available under license
- 1.44 feign-jackson 8.15.1**
  - 1.44.1 Available under license
- 1.45 mecab 0.996**
  - 1.45.1 Available under license
- 1.46 jedis 3.3.0**
  - 1.46.1 Available under license
- 1.47 guice 4.2.3**
  - 1.47.1 Available under license
- 1.48 guice-assistedinject 4.2.3**
  - 1.48.1 Available under license
- 1.49 guice-multibindings 4.2.3**
  - 1.49.1 Available under license
- 1.50 t-digest 3.2**
  - 1.50.1 Available under license
- 1.51 jctools-core 3.1.0**
  - 1.51.1 Available under license
- 1.52 guice-grapher 3.0**
  - 1.52.1 Available under license
- 1.53 annotations 3.0.0**
  - 1.53.1 Available under license
- 1.54 aop-alliance 1.0**
  - 1.54.1 Available under license
- 1.55 snake-yaml 2.1**
  - 1.55.1 Available under license
- 1.56 hibernate-validator 6.1.7.Final**
  - 1.56.1 Available under license
- 1.57 javax-annotation-api 1.2-b01**
  - 1.57.1 Available under license

- 1.58 rxjava 1.3.0**
  - 1.58.1 Available under license
- 1.59 juel-api 2.2.7**
  - 1.59.1 Available under license
- 1.60 lombok 1.18.12**
  - 1.60.1 Available under license
- 1.61 commons-lang3 2.6**
  - 1.61.1 Available under license
- 1.62 jcommander 1.78**
  - 1.62.1 Available under license
- 1.63 commons-logging 1.2**
  - 1.63.1 Available under license
- 1.64 commons-cli 1.4**
  - 1.64.1 Available under license
- 1.65 jakarta-annotation-api 1.3.5**
  - 1.65.1 Available under license
- 1.66 commons-codec 1.14**
  - 1.66.1 Available under license
- 1.67 classmate 1.5.1**
  - 1.67.1 Available under license
- 1.68 jakarta-validation-api 2.0.2**
  - 1.68.1 Available under license
- 1.69 jakarta-ws-rs-api 2.1.6**
  - 1.69.1 Available under license
- 1.70 javax-ws-rs-api 2.0.1**
  - 1.70.1 Available under license
- 1.71 jakarta-servlet-api 4.0.4**
  - 1.71.1 Available under license
- 1.72 javax-el-api 3.0.0**
  - 1.72.1 Available under license
- 1.73 commons-cli 1.3.1**
  - 1.73.1 Available under license
- 1.74 hk2-locator 2.6.1**
  - 1.74.1 Available under license
- 1.75 aopalliance-repackaged 2.6.1**
  - 1.75.1 Available under license
- 1.76 hk2-utils 2.6.1**
  - 1.76.1 Available under license
- 1.77 hk2-api 2.6.1**

1.77.1 Available under license

**1.78 resourcelocator 1.0.3**

1.78.1 Available under license

**1.79 jakarta-inject 2.6.1**

1.79.1 Available under license

**1.80 joda-time 2.10.1**

1.80.1 Available under license

**1.81 javassist 3.24.1-GA**

1.81.1 Available under license

**1.82 activation 1.1.1**

1.82.1 Available under license

**1.83 jemalloc 5.2.1**

1.83.1 Available under license

**1.84 lombok 1.16.6**

1.84.1 Available under license

**1.85 juel 2.2.7**

1.85.1 Available under license

**1.86 jersey-metainf-services 2.33**

1.86.1 Available under license

**1.87 lz4 1.9.3**

1.87.1 Available under license

**1.88 opentest4j 1.2.0**

1.88.1 Available under license

**1.89 re2j 1.2**

1.89.1 Available under license

**1.90 antlr 4.6**

1.90.1 Available under license

**1.91 commons-dbutils 1.5**

1.91.1 Available under license

**1.92 xz-java 1.9**

1.92.1 Available under license

**1.93 activation-api 1.2.0**

1.93.1 Available under license

**1.94 commons-lang3 3.12.0**

1.94.1 Available under license

**1.95 picocli 4.6.1**

1.95.1 Available under license

**1.96 jakarta xml bind api 2.3.3**

1.96.1 Available under license

## **1.97 jul-to-slf4j 1.7.32**

1.97.1 Available under license

## **1.98 asm 9.2**

1.98.1 Available under license

## **1.99 jcl-over-slf4j 1.7.32**

1.99.1 Available under license

## **1.100 okhttp 4.5.0**

1.100.1 Available under license

## **1.101 kerberos 1.19**

1.101.1 Available under license

## **1.102 log4j-over-slf4j 1.7.32**

1.102.1 Available under license

## **1.103 jersey-hk2 2.35**

1.103.1 Available under license

## **1.104 ant-junit 1.10.11**

1.104.1 Available under license

## **1.105 junit 4.13.2**

1.105.1 Available under license

## **1.106 junit-jupiter-engine 5.7.2**

1.106.1 Available under license

## **1.107 junit-platform-engine 1.7.2**

1.107.1 Available under license

## **1.108 junit-jupiter-api 5.7.2**

1.108.1 Available under license

## **1.109 junit-platform-commons 1.7.2**

1.109.1 Available under license

## **1.110 jersey-bean-validation 2.33**

1.110.1 Available under license

## **1.111 kerberos 4.1**

1.111.1 Available under license

## **1.112 groovy 3.0.9**

1.112.1 Available under license

## **1.113 groovy-json 3.0.9**

1.113.1 Available under license

## **1.114 groovy-xml 3.0.9**

1.114.1 Available under license

## **1.115 groovy-nio 3.0.9**

1.115.1 Available under license

## **1.116 tinymce-2 9.0.0**

- 1.116.1 Available under license
- 1.117 libffi 3.4.2**
  - 1.117.1 Available under license
- 1.118 jersey-client 2.35**
  - 1.118.1 Available under license
- 1.119 jersey-container-servlet 2.35**
  - 1.119.1 Available under license
- 1.120 jersey-container-servlet-core 2.35**
  - 1.120.1 Available under license
- 1.121 jersey-common 2.35**
  - 1.121.1 Available under license
- 1.122 jersey-server 2.35**
  - 1.122.1 Available under license
- 1.123 ant 1.10.12**
  - 1.123.1 Available under license
- 1.124 jersey-media-multipart 2.35**
  - 1.124.1 Available under license
- 1.125 jersey-entity-filtering 2.35**
  - 1.125.1 Available under license
- 1.126 jersey-apache-connector 2.35**
  - 1.126.1 Available under license
- 1.127 jersey-media-json-jackson 2.35**
  - 1.127.1 Available under license
- 1.128 jackson 2.15.0**
  - 1.128.1 Available under license
- 1.129 jna 5.10.0**
  - 1.129.1 Available under license
- 1.130 ant-launcher 1.10.12**
  - 1.130.1 Available under license
- 1.131 javassist 3.28.0-GA**
  - 1.131.1 Available under license
- 1.132 javax-el 3.0.0**
  - 1.132.1 Available under license
- 1.133 argparse 0.8.1**
  - 1.133.1 Available under license
- 1.134 jetty-setuid-java 1.0.4**
  - 1.134.1 Available under license
- 1.135 profiler 1.1.1**
  - 1.135.1 Available under license

### **1.136 jackson-module-afterburner 2.10.5**

1.136.1 Available under license

### **1.137 hppc 0.8.1**

1.137.1 Available under license

### **1.138 mchange-commons-java 0.2.15**

1.138.1 Available under license

### **1.139 txw2 20110809**

1.139.1 Available under license

### **1.140 metrics-jmx 4.1.29**

1.140.1 Available under license

### **1.141 reflections 0.9.10**

1.141.1 Available under license

### **1.142 jakarta-el 3.0.4**

1.142.1 Available under license

### **1.143 protobuf 3.19.4**

1.143.1 Available under license

### **1.144 jpowershell 2.0**

1.144.1 Available under license

### **1.145 groovy-test 3.0.9**

1.145.1 Available under license

### **1.146 groovy-datetime 3.0.9**

1.146.1 Available under license

### **1.147 ant-antlr 1.10.11**

1.147.1 Available under license

### **1.148 jhardware 0.8.6**

1.148.1 Available under license

### **1.149 groovy-sql 3.0.9**

1.149.1 Available under license

### **1.150 groovy-docgenerator 3.0.9**

1.150.1 Available under license

### **1.151 groovy-groovydoc 3.0.9**

1.151.1 Available under license

### **1.152 groovy-swing 3.0.9**

1.152.1 Available under license

### **1.153 junit-platform-launcher 1.7.2**

1.153.1 Available under license

### **1.154 groovy-dateutil 3.0.9**

1.154.1 Available under license

### **1.155 wmi4java 1.6.2**

- 1.155.1 Available under license
- 1.156 qdox 1.12.1**
  - 1.156.1 Available under license
- 1.157 auto-common 0.10**
  - 1.157.1 Available under license
- 1.158 slf4j 1.7.36**
  - 1.158.1 Available under license
- 1.159 kotlin 1.3.70**
  - 1.159.1 Available under license
- 1.160 guava 31.1-jre**
  - 1.160.1 Available under license
- 1.161 metrics-annotation 4.2.9**
  - 1.161.1 Available under license
- 1.162 javaip 0.17**
  - 1.162.1 Available under license
- 1.163 metrics 4.2.9**
  - 1.163.1 Available under license
- 1.164 error\_prone\_annotations 2.11.0**
  - 1.164.1 Available under license
- 1.165 joda-time 2.10.14**
  - 1.165.1 Available under license
- 1.166 metrics-health-checks 4.2.9**
  - 1.166.1 Available under license
- 1.167 dropwizard-auth-ldap 1.0.4**
  - 1.167.1 Available under license
- 1.168 servlet-api 3.1.0**
  - 1.168.1 Available under license
- 1.169 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava**
  - 1.169.1 Available under license
- 1.170 jsoup 1.15.3**
  - 1.170.1 Available under license
- 1.171 ant-jsch 1.10.12**
  - 1.171.1 Available under license
- 1.172 cglib 3.3.0**
  - 1.172.1 Available under license
- 1.173 log4j-api 2.19.0**
  - 1.173.1 Available under license
- 1.174 apache-commons-text 1.10.0**
  - 1.174.1 Available under license

- 1.175 protobuf-java 3.21.9**
  - 1.175.1 Available under license
- 1.176 open-csv 5.7.1**
  - 1.176.1 Available under license
- 1.177 commons-compress 1.22**
  - 1.177.1 Available under license
- 1.178 dropwizard-util 2.0.34**
  - 1.178.1 Available under license
- 1.179 dropwizard-validation 2.0.34**
  - 1.179.1 Available under license
- 1.180 dropwizard-jackson 2.0.34**
  - 1.180.1 Available under license
- 1.181 dropwizard-configuration 2.0.34**
  - 1.181.1 Available under license
- 1.182 lz4 1.9.4**
  - 1.182.1 Available under license
- 1.183 bouncy-castle 1.72**
  - 1.183.1 Available under license
- 1.184 juel 2.6.0**
  - 1.184.1 Available under license
- 1.185 commons-net 3.9.0**
  - 1.185.1 Available under license
- 1.186 zstd 1.9.4**
  - 1.186.1 Available under license
- 1.187 logback-throttling-appender 1.1.7**
  - 1.187.1 Available under license
- 1.188 metrics-servlets 4.1.29**
  - 1.188.1 Available under license
- 1.189 metrics-logback 4.1.29**
  - 1.189.1 Available under license
- 1.190 metrics-jetty 4.1.29**
  - 1.190.1 Available under license
- 1.191 metrics-json 4.1.29**
  - 1.191.1 Available under license
- 1.192 metrics-jersey2 4.1.29**
  - 1.192.1 Available under license
- 1.193 metrics-caffeine 4.1.29**
  - 1.193.1 Available under license
- 1.194 metrics-jvm 4.1.29**

- 1.194.1 Available under license
- 1.195 groovyjsr 3.0.9**
  - 1.195.1 Available under license
- 1.196 jersey-common 2.37**
  - 1.196.1 Available under license
- 1.197 groovy-testng 3.0.9**
  - 1.197.1 Available under license
- 1.198 groovy-ant 3.0.9**
  - 1.198.1 Available under license
- 1.199 groovy-macro 3.0.9**
  - 1.199.1 Available under license
- 1.200 gson 2.10.1**
  - 1.200.1 Available under license
- 1.201 apache-log4j 2.20.0**
  - 1.201.1 Available under license
- 1.202 snake-yaml 2.0**
  - 1.202.1 Available under license
- 1.203 jcodings 1.0.44**
  - 1.203.1 Available under license
- 1.204 joni 2.1.29**
  - 1.204.1 Available under license
- 1.205 jinjava 2.6.0**
  - 1.205.1 Available under license
- 1.206 tap4j 4.1**
  - 1.206.1 Available under license
- 1.207 auto-service-annotations 1.0-rc6**
  - 1.207.1 Available under license
- 1.208 auto-service 1.0-rc6**
  - 1.208.1 Available under license
- 1.209 javaparser-core 3.23.0**
- 1.210 log4j2-ecs-layout 1.2.0**
  - 1.210.1 Available under license
- 1.211 ecs-logging-core 1.2.0**
  - 1.211.1 Available under license
- 1.212 swagger-annotations 2.0.7**
  - 1.212.1 Available under license
- 1.213 dropwizard-validation 2.0.28**
  - 1.213.1 Available under license
- 1.214 jest-common 0.1.1**

- 1.214.1 Available under license
- 1.215 jest 0.1.1**
  - 1.215.1 Available under license
- 1.216 grpc-stub 1.24.0**
  - 1.216.1 Available under license
- 1.217 jackson-datatype-jdk8 2.15.0**
  - 1.217.1 Available under license
- 1.218 jackson-annotations 2.15.0**
  - 1.218.1 Available under license
- 1.219 jackson-dataformat-yaml 2.15.0**
  - 1.219.1 Available under license
- 1.220 jackson-databind 2.15.0**
  - 1.220.1 Available under license
- 1.221 jackson-module-parameter-names 2.15.0**
  - 1.221.1 Available under license
- 1.222 jackson-dataformat-cbor 2.15.0**
  - 1.222.1 Available under license
- 1.223 jackson-xc 2.15.0**
  - 1.223.1 Available under license
- 1.224 jackson-datatype-jsr310 2.15.0**
  - 1.224.1 Available under license
- 1.225 dropwizard-jackson 2.0.28**
  - 1.225.1 Available under license
- 1.226 dropwizard-request-logging 2.0.28**
  - 1.226.1 Available under license
- 1.227 dropwizard-configuration 2.0.28**
  - 1.227.1 Available under license
- 1.228 dropwizard-servlets 2.0.28**
  - 1.228.1 Available under license
- 1.229 dropwizard-auth 2.0.28**
  - 1.229.1 Available under license
- 1.230 dropwizard-util 2.0.28**
  - 1.230.1 Available under license
- 1.231 dropwizard-lifecycle 2.0.28**
  - 1.231.1 Available under license
- 1.232 dropwizard-core 2.0.28**
  - 1.232.1 Available under license
- 1.233 dropwizard-jersey 2.0.28**
  - 1.233.1 Available under license

- 1.234 dropwizard-jetty 2.0.28**
  - 1.234.1 Available under license
- 1.235 drop-wizard-metrics 2.0.28**
  - 1.235.1 Available under license
- 1.236 dropwizard-logging 2.0.28**
  - 1.236.1 Available under license
- 1.237 liquibase 4.22.0**
  - 1.237.1 Available under license
- 1.238 jackson-jaxrs 2.15.0**
  - 1.238.1 Available under license
- 1.239 jackson-jaxrs-base 2.15.0**
  - 1.239.1 Available under license
- 1.240 jackson-datatype-guava 2.15.0**
  - 1.240.1 Available under license
- 1.241 jackson-datatype-joda 2.15.0**
  - 1.241.1 Available under license
- 1.242 fastdoubleparser 0.8.0**
  - 1.242.1 Available under license
- 1.243 servlet-api 4.0.4**
  - 1.243.1 Available under license
- 1.244 jackson-dataformat-smile 2.15.0**
  - 1.244.1 Available under license
- 1.245 aop-alliance 2.6.1**
  - 1.245.1 Available under license
- 1.246 j2objc-annotations 2.8**
  - 1.246.1 Available under license
- 1.247 guava 32.0.0-jre**
  - 1.247.1 Available under license
- 1.248 mysql-connector-j 8.0.33**
  - 1.248.1 Available under license
- 1.249 liquibase-core 4.22.0**
- 1.250 snappy 0.3**
  - 1.250.1 Available under license
- 1.251 lucene 9.6.0**
  - 1.251.1 Available under license
- 1.252 openssl 3.0.9**
  - 1.252.1 Available under license
- 1.253 okio 2.5.0**
  - 1.253.1 Available under license

### **1.254 quartz 2.4.0-rc1**

1.254.1 Available under license

### **1.255 java™-native-access 5**

1.255.1 Available under license

### **1.256 jansi---java-library-for-generating-and-interpreting-ansi-escape-sequences.**

### **1.5.0**

1.256.1 Available under license

### **1.257 xpprof32 4.1-prerelease**

1.257.1 Available under license

### **1.258 krb5\_32 4.1-prerelease**

1.258.1 Available under license

### **1.259 k5sprt32 4.1-prerelease**

1.259.1 Available under license

### **1.260 krbcc32 4.1-prerelease**

1.260.1 Available under license

### **1.261 gssapi32 4.1-prerelease**

1.261.1 Available under license

### **1.262 comerr32 4.1-prerelease**

1.262.1 Available under license

### **1.263 cyrus-sasl 2.1.28**

1.263.1 Available under license

### **1.264 mysql 8.0.34**

1.264.1 Available under license

### **1.265 jackson-databind 2.15.3**

1.265.1 Available under license

### **1.266 jackson-annotations 2.15.3**

1.266.1 Available under license

### **1.267 jackson-dataformat-yaml 2.15.3**

1.267.1 Available under license

### **1.268 jackson 2.15.3**

1.268.1 Available under license

### **1.269 jackson-datatype-jsr310 2.15.3**

1.269.1 Available under license

### **1.270 jackson-datatype-jdk8 2.15.3**

1.270.1 Available under license

### **1.271 jackson-module-parameter-names 2.15.3**

1.271.1 Available under license

### **1.272 libevent 2.1.11**

1.272.1 Available under license

- 1.273 jackson-datatype-guava 2.15.3**
  - 1.273.1 Available under license
- 1.274 jackson-datatype-joda 2.15.3**
  - 1.274.1 Available under license
- 1.275 jackson-module-afterburner 2.15.3**
  - 1.275.1 Available under license
- 1.276 mysql-jdbc 8.0.33**
  - 1.276.1 Available under license
- 1.277 curl 8.1.1**
  - 1.277.1 Available under license
- 1.278 bcpkix-fips 1.0.7**
  - 1.278.1 Available under license
- 1.279 proto-google-common-protos 2.29.0**
  - 1.279.1 Available under license
- 1.280 protobuf-java 3.25.1**
  - 1.280.1 Available under license
- 1.281 error\_prone\_annotations 2.23.0**
  - 1.281.1 Available under license
- 1.282 jsch 0.2.4**
  - 1.282.1 Available under license
- 1.283 logback-core 1.2.13**
  - 1.283.1 Available under license
- 1.284 zstd 1.5.5**
  - 1.284.1 Available under license
- 1.285 zlib 1.2.13**
  - 1.285.1 Available under license
- 1.286 lz4-java 1.8.0**
  - 1.286.1 Available under license
- 1.287 netty-codec-redis 4.1.107.Final**
  - 1.287.1 Available under license
- 1.288 netty-transport-native-unix-common 4.1.107.Final**
  - 1.288.1 Available under license
- 1.289 netty-resolver-dns 4.1.107.Final**
  - 1.289.1 Available under license
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## 1.5 geoip-api 1.2.11

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# 1.9 httpasyncclient 4.1.1

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## 1.10 httpcore-nio 4.4.4

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 *
 */

/**
 * Embedded non-blocking server and server bootstrap.
 */
package org.apache.http.impl.nio.bootstrap;
```

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jar/org/jetbrains/annotations/Nullable.java  
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jar/org/jetbrains/annotations/NonNls.java  
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jar/org/jetbrains/annotations/NotNull.java  
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# 1.13 hdrhistogram 2.1.9

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jar/org/HdrHistogram/RecordedValuesIterator.java
```

```
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-  
jar/org/HdrHistogram/DoubleRecorder.java
```

```
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-  
jar/org/HdrHistogram/ShortCountsHistogram.java
```

```
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jar/org/HdrHistogram/EncodableHistogram.java
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* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-  
jar/org/HdrHistogram/ZigZagEncoding.java
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```

```
*
```

```
/opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-  
jar/org/HdrHistogram/DoublePercentileIterator.java
```

```
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-  
jar/org/HdrHistogram/DoubleHistogramIterationValue.java
```

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jar/org/HdrHistogram/DoubleHistogram.java
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jar/org/HdrHistogram/HistogramIterationValue.java
```

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* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
```

```
jar/org/HdrHistogram/AllValuesIterator.java
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jar/org/HdrHistogram/DoubleLinearIterator.java
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jar/org/HdrHistogram/AbstractHistogram.java
*
/opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/ConcurrentHistogram.java
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* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/DoubleRecordedValuesIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/LogarithmicIterator.java
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jar/org/HdrHistogram/HistogramLogProcessor.java
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jar/org/HdrHistogram/SingleWriterDoubleRecorder.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/AbstractHistogramIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/DoubleAllValuesIterator.java
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/opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/IntCountsHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/SynchronizedDoubleHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/PercentileIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/SingleWriterRecorder.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/ConcurrentDoubleHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/SynchronizedHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/DoubleLogarithmicIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/AbstractHistogramLogReader.java
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/opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/LinearIterator.java
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package org.HdrHistogram;

final class Version {

public static final String version="\$VERSION\$";

public static final String build\_time="\$BUILD\_TIMES\$";

}

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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldHaveName.java  
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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/FileAssert.java  
\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldNotContainPattern.java  
\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/Assumptions.java  
\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldBeEqualIgnoringNanos.java  
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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/IterableAssert.java  
\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldHaveNoParent.java  
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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldHaveRootCauseExactlyInstance.java  
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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/util/BigIntegerComparator.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldContainAtIndex.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/internal/Doubles.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/LongArrayAssert.java

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/opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/future/ShouldBeDone.java

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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldHaveSameHashCode.java

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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/AbstractIntArrayAssert.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/util/diff/ChangeDelta.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/ComparatorFactory.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/AbstractIterableSizeAssert.java

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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/util/FloatComparator.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldBeSubstring.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldBeEqualIgnoringWhitespace.java

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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/util/diff/Chunk.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/OptionalAssert.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/AssertionInfo.java

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/opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/AbstractLocalDateTimeAssert.java

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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/util/BigDecimalComparator.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldNotBeIn.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/internal/Bytes.java

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/opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldBeAbsolutePath.java

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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldEndWithPath.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldContainOnlyWhitespaces.java

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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-  
jar/org/assertj/core/internal/Maps.java  
\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-  
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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-  
jar/org/assertj/core/internal/Dates.java  
\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-  
jar/org/assertj/core/error/ShouldBeEqualWithTimePrecision.java

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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/internal/IterableDiff.java  
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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/internal/Paths.java  
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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/AssertionsForClassTypes.java  
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 jar/org/assertj/core/api/AbstractArrayAssert.java  
 \* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-  
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 \* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-  
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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldContainCharSequenceOnlyOnce.java  
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/opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/SoftAssertions.java  
\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldBeInSameMinute.java  
\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/extractor/ResultOfExtractor.java  
\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/presentation/UnicodeRepresentation.java  
\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldBeEqualWithinOffset.java  
\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ElementsShouldMatch.java  
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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/internal/ObjectArrays.java  
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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/AbstractPredicateLikeAssert.java  
\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/ObjectAssert.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/condition/AllOf.java  
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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-  
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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-  
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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/condition/DoesNotHave.java  
\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldNotStartWith.java  
\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/ZonedDateTimeAssert.java  
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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/Java6JUnitSoftAssertions.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/IterableSizeAssert.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/ProxyableListAssert.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldBeSymbolicLink.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/internal/BinaryDiff.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/internal/Lists.java

\*

/opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldBeEqualIgnoringHours.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/ObjectArrayAssert.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/AbstractAtomicReferenceAssert.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/AutoCloseableBDDSoftAssertions.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/internal/BinaryDiffResult.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/util/introspection/MemberUtils.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldBeAnnotation.java

\*

/opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/internal/Files.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/AbstractZonedDateTimeAssert.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ElementsShouldHave.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldContainExactly.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/OptionalShouldContain.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldBeInSameSecondWindow.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ElementsShouldSatisfy.java

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/error/ShouldNotHaveDuplicates.java

\*

```

/opt/cola/permits/176722374_1695326499.9478843/0/assertj-core-3-9-1-sources-
jar/org/assertj/core/error/ShouldBeSorted.java
* /opt/cola/permits/176722374_1695326499.9478843/0/assertj-core-3-9-1-sources-
jar/org/assertj/core/internal/Longs.java
* /opt/cola/permits/176722374_1695326499.9478843/0/assertj-core-3-9-1-sources-
jar/org/assertj/core/api/OptionalIntAssert.java
* /opt/cola/permits/176722374_1695326499.9478843/0/assertj-core-3-9-1-sources-
jar/org/assertj/core/internal/Comparables.java
* /opt/cola/permits/176722374_1695326499.9478843/0/assertj-core-3-9-1-sources-
jar/org/assertj/core/api/AssertProvider.java
* /opt/cola/permits/176722374_1695326499.9478843/0/assertj-core-3-9-1-sources-
jar/org/assertj/core/api/Condition.java
* /opt/cola/permits/176722374_1695326499.9478843/0/assertj-core-3-9-1-sources-
jar/org/assertj/core/internal/Conditions.java
* /opt/cola/permits/176722374_1695326499.9478843/0/assertj-core-3-9-1-sources-
jar/org/assertj/core/error/ShouldBeExecutable.java
*
/opt/cola/permits/176722374_1695326499.9478843/0/assertj-core-3-9-1-sources-
jar/org/assertj/core/error/ShouldBeBeforeYear.java
* /opt/cola/permits/176722374_1695326499.9478843/0/assertj-core-3-9-1-sources-
jar/org/assertj/core/api/ProxyableObjectAssert.java
* /opt/cola/permits/176722374_1695326499.9478843/0/assertj-core-3-9-1-sources-
jar/org/assertj/core/data/TemporalUnitWithinOffset.java
* /opt/cola/permits/176722374_1695326499.9478843/0/assertj-core-3-9-1-sources-
jar/org/assertj/core/error/ShouldHaveContent.java
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*/
/**
* Base class for all implementations of assertions for { @link BigDecimal}s.
*
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY"
* target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&quot;;
*

```

for more details.

- \*  
\* @author Drummond Dawson
- \* @author David DIDIER
- \* @author Ted M. Young
- \* @author Yvonne Wang
- \* @author Alex Ruiz
- \* @author Joel Costigliola
- \* @author Mikhail Mazursky
- \*/

Found in path(s):

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/AbstractBigDecimalAssert.java

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\*/

/\*\*

\* Base class for all implementations of assertions for { @link Throwable}s.

\*

\* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY"

\* target="\_blank">Emulating 'self types' using Java Generics to simplify fluent API

implementation</a>&quot;;

\*

for more details.

\* @param <ACTUAL> the type of the "actual" value.

\*

\* @author David DIDIER

\* @author Alex Ruiz

\* @author Joel Costigliola

\* @author Mikhail Mazursky

\*/

Found in path(s):

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-

jar/org/assertj/core/api/AbstractThrowableAssert.java

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\*/

/\*\*

\* Base class for all assertions.

\*

\* @param <SELF> the "self" type of this assertion class. Please read ["http://bit.ly/1IZIRcY"](http://bit.ly/1IZIRcY)

\* `target="_blank">Emulating 'self types' using Java Generics to simplify fluent API`

implementation</a>"

\* `for more details.`

\* @param <ACTUAL> the type

of the "actual" value.

\*

\* @author Alex Ruiz

\* @author Joel Costigliola

\* @author Mikhail Mazursky

\* @author Nicolas François

\*/

Found in path(s):

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-

jar/org/assertj/core/api/AbstractAssert.java

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/**
* Base class for all implementations of assertions for { @link Character}s.
*
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*     target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&quot;
*
*     for more details.
*
* @author Yvonne Wang
* @author David DIDIER
* @author Ansgar Konermann
* @author Alex Ruiz
* @author Joel Costigliola
* @author Mikhail Mazursky
*/
```

Found in path(s):

```
* /opt/cola/permits/176722374_1695326499.9478843/0/assertj-core-3-9-1-sources-
jar/org/assertj/core/api/AbstractCharacterAssert.java
```

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*
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*/
/**
* Base class for all implementations of assertions for { @link Short}s.
*
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY"
*     target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&quot;
*
*     for
```

more details.

\*  
\* @author Drummond Dawson  
\* @author Yvonne Wang  
\* @author David DIDIER  
\* @author Ansgar Konermann  
\* @author Alex Ruiz  
\* @author Mikhail Mazursky  
\* @author Nicolas François  
\*/

Found in path(s):

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/AbstractShortAssert.java

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\*/

/\*\*

\* Base class for all implementations of assertions for { @link File}s.

\*

\* @param <SELF> the "self" type of this assertion class. Please read ["http://bit.ly/1IZIRcY"](http://bit.ly/1IZIRcY)

\* `target="_blank">Emulating 'self types' using Java Generics to simplify fluent API`

implementation</a>&quot;

\* `for more`

details.

\*

\* @author David DIDIER

\* @author Yvonne Wang

\* @author Alex Ruiz

\* @author Olivier Michallat

\* @author Olivier Demeijer

\* @author Mikhail Mazursky

\* @author Jean-Christophe Gay

\*/

Found in path(s):

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/AbstractFileAssert.java

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\*/

/\*\*

\* Base class for all implementations of assertions for { @link Long}s.

\*

\* @param <SELF> the "self" type of this assertion class. Please read ["http://bit.ly/1IZIRcY"](http://bit.ly/1IZIRcY)

\* [target="\\_blank">Emulating 'self types' using Java Generics to simplify fluent API](#)

implementation</a>&quot;

\* for more

details.

\*

\* @author Drummond Dawson

\* @author Yvonne Wang

\* @author David DIDIER

\* @author Ansgar Konermann

\* @author Alex Ruiz

\* @author Joel Costigliola

\* @author Mikhail Mazursky

\* @author Nicolas François

\*/

Found in path(s):

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/AbstractLongAssert.java

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*
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*/
/**
* Base class for all implementations of assertions for { @code CharSequence}s.
*
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY"
*     target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&quot;
*
*     for more details.
* @param <ACTUAL> the type of the "actual" value.
*
* @author Yvonne Wang
* @author David DIDIER
* @author Alex Ruiz
* @author Joel Costigliola
* @author Mikhail Mazursky
* @author Nicolas Francois
* @author Daniel Weber
*/

```

Found in path(s):

```

* /opt/cola/permits/176722374_1695326499.9478843/0/assertj-core-3-9-1-sources-
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```

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* specific language governing permissions and limitations under the License.
*
* Copyright 2012-2018 the original author or authors.
*/
/**

```

```

* Base class for all implementations of assertions for { @link InputStream}s.
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY"
*     target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&quot;;
*     for
more details.
* @param <ACTUAL> the type of the "actual" value.
*
* @author Matthieu Baechler
* @author Mikhail Mazursky
*/

```

Found in path(s):

```

* /opt/cola/permits/176722374_1695326499.9478843/0/assertj-core-3-9-1-sources-
jar/org/assertj/core/api/AbstractInputStreamAssert.java

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*/

```

```

/**

```

```

* Base class for all implementations of assertions for { @link List}s.
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY"
*     target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&quot;;
*     for more
details.
* @param <ACTUAL> the type of the "actual" value.
* @param <ELEMENT> the type of elements of the "actual" value.
* @param <ELEMENT_ASSERT> used for navigational assertions to return the right assert type.
*
* @author Yvonne Wang
* @author Alex Ruiz
* @author Joel Costigliola
* @author Mikhail Mazursky
*/

```

Found in path(s):

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/AbstractListAssert.java

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\*/

/\*\*

\* Base class for all implementations of assertions for { @link Class }es.

\*

\* @param <SELF> the "self" type of this assertion class. Please read ["http://bit.ly/1IZIRcY"](http://bit.ly/1IZIRcY)

\* [target="\\_blank">Emulating 'self types' using Java Generics to simplify fluent API](#)

implementation</a>&quot;

\* for

more details.

\*

\* @author William Delanoue

\* @author Mikhail Mazursky

\*/

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\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/AbstractClassAssert.java

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```

*
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*/
/**
* Base class for all implementations of assertions for { @link Date}s.
* <p>
* Note that assertions with date parameter comes with two flavor, one is obviously a { @link Date} and the other is a
* { @link String} representing a Date.<br>
* For the latter, the default format follows ISO 8901 : "yyyy-MM-dd", user can
* override it with a custom format by
* calling { @link #withDateFormat(DateFormat)}.<br>
* The user custom format will then be used for all next Date assertions (i.e not limited to the current assertion) in
* the test suite.<br>
* To turn back to default format, simply call { @link #withDefaultDateFormatsOnly()}.
*
* @param <SELF> the "self" type of this assertion class. Please read "<a href="http://bit.ly/1IZIRcY"
*     target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation</a>" for
*     more details.
* @author Tomasz Nurkiewicz (thanks for giving assertions idea)
* @author Joel Costigliola
* @author Mikhail Mazursky
* @author William Delanoue
* @author Michal Kordas
*/

```

Found in path(s):

```

* /opt/cola/permits/176722374_1695326499.9478843/0/assertj-core-3-9-1-sources-
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* specific language governing permissions and limitations under the License.
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*/

```

```

/**
* Base class for all implementations of assertions for { @link Double}s.
*
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY"

```

```
*      target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&quot;
*      for
more details.
*
* @author Drummond Dawson
* @author Yvonne Wang
* @author David DIDIER
* @author Alex Ruiz
* @author Ansgar Konermann
* @author Joel Costigliola
* @author Mikhail Mazursky
* @author Nicolas François
*/
```

Found in path(s):

```
* /opt/cola/permits/176722374_1695326499.9478843/0/assertj-core-3-9-1-sources-
jar/org/assertj/core/api/AbstractDoubleAssert.java
```

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* specific language governing permissions and limitations under the License.
*
* Copyright 2012-2018 the original author or authors.
*/
/**
```

```
* Base class for all implementations of assertions for { @link Byte}s.
*
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY"
*      target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&quot;
*      for more
details.
*
* @author Drummond Dawson
* @author Yvonne Wang
* @author David DIDIER
* @author Ansgar Konermann
* @author Alex Ruiz
```

\* @author Mikhail Mazursky  
\* @author Nicolas François  
\*/

Found in path(s):

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/AbstractByteAssert.java

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\*

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\*/

/\*\*

\* Assertions methods applicable to groups of objects (e.g. arrays or collections.)

\*

\* @param <SELF> the "self" type of this assertion class. Please read ["http://bit.ly/1IZIRcY"](http://bit.ly/1IZIRcY) target="\_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation</a>

\*

for more details.

\* @param <ELEMENT> the type of elements of the "actual" value.

\*

\* @author Yvonne Wang

\* @author Alex Ruiz

\* @author Nicolas François

\* @author Mikhail Mazursky

\* @author Joel Costigliola

\* @author Nicolas François

\* @author Florent Biville

\*/

Found in path(s):

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/ObjectEnumerableAssert.java

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/\*\*  
\* Base class for all implementations of assertions for { @link Integer}s.  
\*  
\* @param <SELF> the "self" type of this assertion class. Please read ["http://bit.ly/1IZIRcY"](http://bit.ly/1IZIRcY)  
\* target="\_blank">Emulating 'self types' using Java Generics to simplify fluent API  
implementation</a>&quot;  
\* for  
more details.  
\*  
\* @author Drummond Dawson  
\* @author Yvonne Wang  
\* @author David DIDIER  
\* @author Ansgar Konermann  
\* @author Alex Ruiz  
\* @author Joel Costigliola  
\* @author Mikhail Mazursky  
\* @author Nicolas François  
\*/

Found in path(s):

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-  
jar/org/assertj/core/api/AbstractIntegerAssert.java

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```

*
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*/
/**
* Base class for all implementations of assertions for { @link Map}s.
*
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY"
*     target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&quot;;
*     for more
details.
* @param <ACTUAL> the type of the "actual" value.
* @param <K> the type of keys in the map.
* @param <V> the type of values in the map.
*
* @author David DIDIER
* @author Yvonne Wang
* @author Alex Ruiz
* @author Mikhail Mazursky
* @author Nicolas François
* @author dorzey
*/

```

Found in path(s):

```

* /opt/cola/permits/176722374_1695326499.9478843/0/assertj-core-3-9-1-sources-
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*/

```

```

/**
* Base class for all implementations of assertions for { @link Float}s.
*
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY"
*     target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&quot;;

```

\* for  
more details.  
\*  
\* @author Drummond Dawson  
\* @author Yvonne Wang  
\* @author Alex Ruiz  
\* @author Ansgar Konermann  
\* @author Mikhail Mazursky  
\* @author Nicolas François  
\*/

Found in path(s):

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/AbstractFloatAssert.java

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\*/  
/\*\*  
\* Base class for all implementations of assertions for { @link Object}s.  
\*  
\* @param <SELF> the "self" type of this assertion class. Please read ["Emulating 'self types' using Java Generics to simplify fluent API implementation"](http://bit.ly/1IZIRcY)  
\* for  
more details.  
\* @param <ACTUAL> the type of the "actual" value.  
\*  
\* @author Yvonne Wang  
\* @author Alex Ruiz  
\* @author Nicolas François  
\* @author Mikhail Mazursky  
\* @author Joel Costigliola  
\* @author Libor Ondrusek  
\*/

Found in path(s):

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/AbstractObjectAssert.java

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\*/

/\*\*

\* Base class for implementations of `{ @link ObjectEnumerableAssert }` whose actual value type is `{ @link Collection }`.

\*

\* @param <SELF> the "self" type of this assertion class. Please read ["http://bit.ly/1IZIRcY"](http://bit.ly/1IZIRcY)

\* [target="\\_blank">Emulating 'self types' using Java Generics](#)

to simplify fluent API implementation</a>

\* for more details.

\* @param <ACTUAL> the type of the "actual" value.

\* @param <ELEMENT> the type of elements of the "actual" value.

\* @param <ELEMENT\_ASSERT> used for navigational assertions to return the right assert type.

\*

\* @author Yvonne Wang

\* @author Alex Ruiz

\* @author Mathieu Baechler

\* @author Joel Costigliola

\* @author Maciej Jaskowski

\* @author Nicolas François

\* @author Mikhail Mazursky

\* @author Mateusz Haligowski

\* @author Lovro Pandzic

\* @author Marko Bekhta

\*/

Found in path(s):

\* /opt/cola/permits/176722374\_1695326499.9478843/0/assertj-core-3-9-1-sources-jar/org/assertj/core/api/AbstractIterableAssert.java

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 */
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 * Base class for all implementations of assertions for { @link Boolean}s.
 *
 * @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY"
 *     target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
 * implementation</a>&quot;
 *     for
 *     more details.
 *
 * @author Alex Ruiz
 * @author Yvonne Wang
 * @author David DIDIER
 * @author Ansgar Konermann
 * @author Mikhail Mazursky
 */

```

Found in path(s):

```

* /opt/cola/permits/176722374_1695326499.9478843/0/assertj-core-3-9-1-sources-
jar/org/assertj/core/api/AbstractBooleanAssert.java

```

## 1.15 jboss-logging 3.3.2.Final

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## 1.16 httpcomponents-core 4.4.10

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<meta content="en-us" name="DC.Language" />

<link href="commonltr.css" type="text/css"

rel="stylesheet" />

<title>License</title>

</head>

<body id="rreflicense"><a name="rreflicense"><!-- --></a>

<h1 class="topicTitle1">License</h1>

<div><p />

<div class="section"><h2 class="sectionTitle">The Apache License, Version 2.0</h2>

<pre>

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</pre>

</div>

</div>

<div />

</body>

</html>

4

```
textLjava/lang/String;sqlStateWhenMissing<init>'(Ljava/lang/String;Ljava/lang/String;)VCodeLineNumberTableLocalVariableTablethis=Lorg/apache/derbyTesting/functionTests/tests/lang/Permission;SourceFilePermission.java ;org/apache/derbyTesting/functionTests/tests/lang/Permissionjava/lang/Object()V!Y**+*,#$ %&
```

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en-us" xml:lang="en-us">
<!--
```

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```
-->
```

```
<head>
```

```
<meta content="text/html; charset=utf-8" http-equiv="Content-Type" />
```

```
<meta name="copyright" content="(C) Copyright 2005" />
```

```
<meta name="DC.rights.owner" content="(C) Copyright 2005" />
```

```
<meta content="public" name="security" />
```

```
<meta content="index, follow" name="Robots" />
```

```
<meta http-equiv="PICS-Label" content='(PICS-1.1 "http://www.icra.org/ratingsv02.html" l gen true r (cz 1 lz 1 nz 1 oz 1 vz 1) "http://www.rsac.org/ratingsv01.html" l gen true r (n 0 s 0 v 0 l 0) "http://www.classify.org/safesurf/" l gen true r (SS~000 1))' />
```

```
<meta content="reference" name="DC.Type" />
```

```
<meta name="DC.Title" content="License" />
```

```
<meta name="abstract" content="" />
```

```
<meta name="description" content="" />
```

```
<meta content="Apache, license" name="DC.subject" />
```

```
<meta content="Apache, license" name="keywords" />
```

```
<meta content="XHTML" name="DC.Format" />
```

```
<meta content="rdevlicense" name="DC.Identifier" />
```

```
<meta content="en-us" name="DC.Language" />
```

```
<link href="commonltr.css" type="text/css"
rel="stylesheet" />
```

```
<title>License</title>
```

```
</head>
```

```
<body id="rdevlicense"><a name="rdevlicense"><!-- --></a>
```

```
<h1 class="topictitle1">License</h1>
```

<div><p />

<div class="section"><h2 class="sectiontitle">The Apache License, Version 2.0</h2>

<pre>

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</pre>

</div>

</div>

</body>

</html>

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en-us" xml:lang="en-us">
<!--
```

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```
-->
```

```
<head>
```

```
<meta content="text/html; charset=utf-8" http-equiv="Content-Type" />
```

```
<meta name="copyright" content="(C) Copyright 2005" />
```

```
<meta name="DC.rights.owner" content="(C) Copyright 2005" />
```

```
<meta content="public" name="security" />
```

```
<meta content="index,follow" name="Robots" />
```

```
<meta http-equiv="PICS-Label" content='(PICS-1.1 "http://www.icra.org/ratingsv02.html" l gen true r (cz 1 lz 1 nz 1 oz 1 vz 1) "http://www.rsac.org/ratingsv01.html" l gen true r (n 0 s 0 v 0 l 0) "http://www.classify.org/safesurf/" l gen true r (SS~000 1))' />
```

```
<meta content="reference" name="DC.Type" />
```

```
<meta name="DC.Title" content="License" />
```

```
<meta name="abstract" content="" />
```

```
<meta name="description" content="" />
```

```
<meta content="Apache, license" name="DC.subject" />
```

```
<meta content="Apache, license" name="keywords" />
```

```
<meta content="XHTML" name="DC.Format" />
```

```
<meta content="rgslicense" name="DC.Identifier" />
```

```
<meta content="en-us" name="DC.Language" />
```

```
<link href="commonltr.css" type="text/css"
```

```
rel="stylesheet" />
```

```
<title>License</title>
```

```
</head>
```

```
<body id="rgslicense"><a name="rgslicense"><!-- --></a>
```

```
<h1 class="topicTitle1">License</h1>
```

<div><p />

<div class="section"><h2 class="sectiontitle">The Apache License, Version 2.0</h2>

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```
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        Version 2.0, January 2004
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</pre>

</div>

</div>

</body>

</html>

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The snowball stemmers in  
`analysis/common/src/java/net/sf/snowball`  
were developed by Martin Porter and Richard Boulton.

The snowball stopword lists in  
`analysis/common/src/resources/org/apache/lucene/analysis/snowball`  
were developed by Martin Porter and Richard Boulton.

The full snowball package is available from  
<http://snowball.tartarus.org/>

The KStem stemmer in  
`analysis/common/src/org/apache/lucene/analysis/en`  
was  
developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)  
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The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come with a default  
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:  
`analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt`,  
`analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt`,  
`analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt`,  
`analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt`,  
`analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt`  
See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers  
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and  
Ljiljana Dolamic. These files reside in:

`analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java`

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Stempel analyzer (stempel) includes BSD-licensed software developed  
by the Egothor project <http://egothor.sf.net/>, created by Leo Galambos, Martin Kvapil,  
and Edmond

Nolan.

The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt. See <http://project.carrot2.org/license.html>.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by [www.imdict.net](http://www.imdict.net).

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which can be obtained from

<http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz>

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<http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz>

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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en-us" xml:lang="en-us">
<!--
```

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<head>
<meta content="text/html; charset=utf-8" http-equiv="Content-Type" />
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<meta name="copyright" content="(C) Copyright 2005" />
<meta name="DC.rights.owner" content="(C) Copyright 2005" />
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<meta content="index, follow" name="Robots" />
<meta http-equiv="PICS-Label" content="(PICS-1.1 "http://www.icra.org/ratingsv02.html" l gen true r (cz 1 lz 1 nz
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<meta content="radminlicense" name="DC.Identifier" />
<meta content="en-us" name="DC.Language" />
<link href="commonltr.css" type="text/css" rel="stylesheet" />
<title>License</title>
</head>
<body id="radminlicense"><a
name="radminlicense"><!-- --></a>
```

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<h1 class="topicTitle1">License</h1>
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<div>
<div class="section"><h2 class="sectionTitle">The Apache License, Version 2.0</h2>
<pre>
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</pre>

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</div>

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<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"

"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" lang="en-us" xml:lang="en-us">

<!--

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<head>

<meta content="text/html; charset=utf-8" http-equiv="Content-Type" />

<meta name="copyright" content="(C) Copyright 2005" />

<meta name="DC.rights.owner" content="(C) Copyright 2005" />

<meta content="public" name="security" />

<meta content="index, follow" name="Robots" />

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<meta content="XHTML" name="DC.Format" />
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<meta content="en-us" name="DC.Language" />
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name="rtunlicense"><!-- --></a>
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```
<h1 class="topicTitle1">License</h1>
```

```
<div>
<div class="section"><h2 class="sectionTitle">The Apache License, Version 2.0</h2>
<pre>
        Apache License
        Version 2.0, January 2004
        http://www.apache.org/licenses/
```

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</pre>

</div>

</div>

<div />

</body>

</html>

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"

"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" lang="en-us" xml:lang="en-us">

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<head>

<meta content="text/html; charset=utf-8" http-equiv="Content-Type" />

<meta name="copyright" content="(C) Copyright 2005" />

<meta name="DC.rights.owner" content="(C) Copyright 2005" />

<meta content="public" name="security" />

<meta content="index, follow" name="Robots" />

<meta http-equiv="PICS-Label" content='(PICS-1.1 "http://www.icra.org/ratingsv02.html" l gen true r (cz 1 lz 1 nz 1 oz 1 vz 1) "http://www.rsac.org/ratingsv01.html" l gen true r (n 0 s 0 v 0 l 0) "http://www.classify.org/safesurf/" l gen true r (SS~000 1))' />

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rel="stylesheet" />
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```
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```

```
<div><p />
```

```
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<pre>
```

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</pre>

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</div>

<div />

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</html>

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"

"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" lang="en-us" xml:lang="en-us">

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<meta http-equiv="PICS-Label" content='(PICS-1.1 "http://www.icra.org/ratingsv02.html" l gen true r (cz 1 lz 1 nz 1 oz 1 vz 1) "http://www.rsac.org/ratingsv01.html" l gen true r (n 0 s 0 v 0 l 0) "http://www.classify.org/safesurf/" l gen true r (SS~~000 1))' />

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</head>
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name="rtoolslicense"><!-- --></a>
```

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```

```
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<pre>
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## 1.18 failureaccess 1.0.1

## 1.19 commons-io 2.6

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# 1.20 commons-pool 2.6.2

## 1.21 j2objc-annotations 1.3

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## 1.25 hystrix-core 1.5.12

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# 1.29 commons-compiler 2.6.1

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\* /opt/ws\_local/PERMITS\_SQL/1041687624\_1590960580.15/0/feign-core-8-15-1-sources-

```

jar/feign/RequestTemplate.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-
jar/feign/auth/BasicAuthRequestInterceptor.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-
jar/feign/RetryableException.java
*
/opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-
jar/feign/ReflectiveFeign.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-
jar/feign/codec/ErrorDecoder.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/Logger.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/Request.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-
jar/feign/codec/EncodeException.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-
jar/feign/codec/StringDecoder.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/Retryer.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-
jar/feign/codec/DecodeException.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/Util.java
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/opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-
jar/feign/auth/Base64.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-
jar/feign/FeignException.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/Client.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-
jar/feign/MethodMetadata.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/Response.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/Feign.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-
jar/feign/RequestInterceptor.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/Contract.java
* /opt/ws_local/PERMITS_SQL/1041687624_1590960580.15/0/feign-core-8-15-1-sources-jar/feign/Target.java

```

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- \* /opt/ws\_local/PERMITS\_SQL/1041687872\_1590954410.55/0/feign-jackson-8-15-1-sources-jar/feign/jackson/JacksonDecoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1041687872\_1590954410.55/0/feign-jackson-8-15-1-sources-jar/feign/jackson/JacksonEncoder.java

## 1.45 mecab 0.996

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\* /opt/ws\_local/PERMITS\_SQL/1047560748\_1590497249.67/0/jedis-3-3-0-sources-jar/redis/clients/jedis/util/RedisInputStream.java

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## 1.49 guice-multibindings 4.2.3

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Version 2.0, January 2004

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Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1091220915\_1600449900.56/0/t-digest-3-2-sources-1-jar/com/tdunning/math/stats/FloatHistogram.java
- \* /opt/ws\_local/PERMITS\_SQL/1091220915\_1600449900.56/0/t-digest-3-2-sources-1-

```

jar/com/tdunning/math/stats/AVLGroupTree.java
*
/opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/Sort.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/TDigest.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/IntAVLTree.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/Histogram.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/MergingDigest.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/Centroid.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/Simple64.java
* /opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/AbstractTDigest.java
*
/opt/ws_local/PERMITS_SQL/1091220915_1600449900.56/0/t-digest-3-2-sources-1-
jar/com/tdunning/math/stats/AVLTreeDigest.java

```

## 1.51 jctools-core 3.1.0

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```

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>

```

```

  <artifactId>jctools-core</artifactId>
  <groupId>org.jctools</groupId>
  <version>3.1.0</version>
  <name>Java Concurrency Tools Core Library</name>
  <description>Java Concurrency Tools Core Library</description>
  <packaging>bundle</packaging>

```

```

  <dependencies>
    <dependency>
      <groupId>org.hamcrest</groupId>
      <artifactId>hamcrest-all</artifactId>
      <version>${hamcrest.version}</version>
      <scope>test</scope>
    </dependency>

```

```

  <dependency>

```

```

<groupId>junit</groupId>
<artifactId>junit</artifactId>
<version>${junit.version}</version>
<scope>test</scope>
</dependency>

<dependency>
  <groupId>com.google.guava</groupId>
  <artifactId>guava-testlib</artifactId>
  <version>${guava-testlib.version}</version>
  <scope>test</scope>
</dependency>
</dependencies>
<build>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-surefire-plugin</artifactId>
      <version>3.0.0-M3</version>
      <configuration>
        <includes>
          <include>*</include>
        </includes>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.felix</groupId>
      <artifactId>maven-bundle-plugin</artifactId>
      <version>4.2.1</version>
      <extensions>>true</extensions>
      <configuration>
        <instructions>
          <Import-Package>sun.misc;resolution:=optional</Import-Package>
        </instructions>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-source-plugin</artifactId>
      <version>3.2.0</version>
      <executions>
        <execution>
          <id>attach-sources</id>
          <phase>verify</phase>
          <goals>
            <goal>jar-no-fork</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
  </plugins>
</build>

```

```

    </executions>
  </plugin>
</plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-javadoc-plugin</artifactId>
<version>3.1.1</version>
<configuration>
  <additionalOptions>
    <additionalOption>-Xdoclint:none</additionalOption>
  </additionalOptions>
  <source>8</source>
</configuration>
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    <goals>
      <goal>jar</goal>
    </goals>
  </execution>
</executions>
</plugin>
</plugins>
</build>

<distributionManagement>
  <repository>
    <id>bintray-jctools-jctools</id>
    <name>jctools-jctools</name>
    <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>
  </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
  <license>
    <name>Apache
    License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
  </license>
</licenses>

<scm>
  <url>https://github.com/JCTools/JCTools</url>
  <connection>scm:git:https://github.com/JCTools/JCTools</connection>
  <tag>HEAD</tag>

```

```

</scm>

<developers>
  <developer>
    <url>https://github.com/nitsanw</url>
  </developer>
  <developer>
    <url>https://github.com/mjpt777</url>
  </developer>
  <developer>
    <url>https://github.com/RichardWarburton</url>
  </developer>
  <developer>
    <url>https://github.com/kay</url>
  </developer>
  <developer>
    <url>https://github.com/franz1981</url>
  </developer>
</developers>

<prerequisites>
  <maven>3.5.0</maven>
</prerequisites>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <java.version>1.6</java.version>
  <java.test.version>1.8</java.test.version>

  <maven.compiler.source>${java.version}</maven.compiler.source>
  <maven.compiler.target>${java.version}</maven.compiler.target>
  <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

  <hamcrest.version>1.3</hamcrest.version>
  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>

```

Found

in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Ordering.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeJvmInfo.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/LinkedListAtomicNode.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpSCLinkedList.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Preference.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SupportsIterator.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscGrowArrayQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseSpSCLinkedListAtomicArrayQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-

```

jar/org/jctools/queues/atomic/AtomicQueueFactory.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpmcArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpSCLinkedAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpMCArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/AbstractEntry.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpmcUnboundedXaddChunk.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscChunkedArrayQueue.java
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jar/org/jctools/maps/NonBlockingHashMapLong.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeLongArrayAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingHashMap.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
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/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingIdentityHashMap.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/BaseLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/InternalAPI.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingHashSet.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/Pow2.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/spec/ConcurrentQueueSpec.java

```

\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/atomic/SpSCChunkedAtomicArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/maps/ConcurrentAutoTable.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/MpscUnboundedXaddChunk.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/LinkedQueueNode.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/SpSCUnboundedArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/util/PortableJvmInfo.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/ConcurrentCircularArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/maps/NonBlockingSetInt.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/MpscLinkedQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/util/UnsafeRefArrayAccess.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/MpscCompoundQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/SpSCChunkedArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/SpSCArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/QueueFactory.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/MpscArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/util/UnsafeAccess.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/MpscUnboundedArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/atomic/SpSCGrowableAtomicArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-

```
jar/org/jctools/queues/IndexedQueueSizeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCGrowArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/RangeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/package-info.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/BaseSpSCLinkedArrayQueue.java
```

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# 1.57 javax-annotation-api 1.2-b01

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jar/rx/internal/operators/OnSubscribeFlatMapSingle.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OnSubscribeFlatMapCompletable.java
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 */
```

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\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/producers/SingleDelayedProducer.java

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jar/rx/internal/util/UtilityFunctions.java  
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\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OnSubscribeCombineLatest.java

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This package contains code that relies on sun.misc.Unsafe. Before using it you MUST assert `UnsafeAccess.isUnsafeAvailable() == true`

Much of the code in this package comes from or is inspired by the JCTools project:

<https://github.com/JCTools/JCTools>

JCTools has now published artifacts (<https://github.com/JCTools/JCTools/issues/17>) so RxJava could add JCTools as a "shadow" dependency (<https://github.com/ReactiveX/RxJava/issues/1735>).

RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an externally visible dependency that results in a separate jar.

The license for the JCTools code is <https://github.com/JCTools/JCTools/blob/master/LICENSE>

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Found in path(s):

\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-  
jar/rx/internal/util/unsafe/README.md

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\*  
\* Original License: <https://github.com/JCTools/JCTools/blob/master/LICENSE>  
\* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/SpSCUnboundedArrayQueue.java>  
\*/

Found in path(s):

\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-  
jar/rx/internal/util/unsafe/SpSCUnboundedArrayQueue.java

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\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OnSubscribeToMultimap.java

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\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/functions/Actions.java

\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OperatorDoAfterTerminate.java

\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OperatorWindowWithTime.java

\*

/opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OperatorWindowWithStartEndObservable.java

\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OperatorWindowWithObservableFactory.java

\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OnSubscribeDelaySubscriptionOther.java

\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OnSubscribeRefCount.java

```

* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OnSubscribeSkipTimed.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OperatorMapPair.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/util/PlatformDependent.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OperatorDelayWithSelector.java
*
/opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OperatorMulticast.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OperatorDebounceWithSelector.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/SingleOnSubscribeDelaySubscriptionOther.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/util/RxThreadFactory.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OperatorOnBackpressureLatest.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/util/atomic/SpSCLinkedArrayQueue.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OnSubscribeDelaySubscriptionWithSelector.java
*
/opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OperatorWindowWithObservable.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/schedulers/ExecutorScheduler.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OperatorDistinctUntilChanged.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OperatorPublish.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OperatorDistinct.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/schedulers/NewThreadWorker.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/schedulers/ScheduledAction.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OperatorSampleWithObservable.java
*
/opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OperatorBufferWithTime.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OnSubscribeDelaySubscription.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OperatorSkipUntil.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-

```

jar/rx/internal/operators/OperatorEagerConcatMap.java  
\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-  
jar/rx/internal/operators/OnSubscribeTimerPeriodically.java  
\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-  
jar/rx/internal/operators/OperatorBufferWithStartEndObservable.java  
\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-  
jar/rx/internal/operators/OperatorBufferWithSize.java  
\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-  
jar/rx/internal/operators/OperatorWithLatestFrom.java  
\*  
/opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-  
jar/rx/internal/operators/OnSubscribeTimerOnce.java  
\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-  
jar/rx/internal/operators/OperatorBufferWithSingleObservable.java  
\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-  
jar/rx/internal/operators/OperatorDebounceWithTime.java  
\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-  
jar/rx/internal/operators/OperatorTakeTimed.java  
\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-  
jar/rx/internal/operators/OperatorSwitch.java  
\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-  
jar/rx/internal/operators/OperatorRetryWithPredicate.java  
\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-  
jar/rx/internal/operators/OperatorSampleWithTime.java  
\*  
/opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-  
jar/rx/internal/operators/OperatorWindowWithSize.java  
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\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-  
jar/rx/internal/operators/OperatorOnBackpressureDrop.java

\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/exceptions/OnCompletedFailedException.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OperatorSubscribeOn.java  
 \*  
 /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/Scheduler.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/observers/SerializedSubscriber.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/CompletableOnSubscribeMerge.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/functions/Function.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/functions/Action.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/plugins/RxJavaObservableExecutionHookDefault.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/subjects/PublishSubject.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OnSubscribeAutoConnect.java  
 \*  
 /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OperatorTakeLast.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/observables/ConnectableObservable.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OperatorElementAt.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OperatorReplay.java  
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 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/Producer.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OperatorToObservableList.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/util/RxRingBuffer.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/functions/Action1.java  
 \*  
 /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/subjects/BehaviorSubject.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/subjects/SubjectSubscriptionManager.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OperatorTimeoutWithSelector.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/Notification.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/functions/Func6.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/schedulers/NewThreadScheduler.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/functions/FuncN.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OperatorDoOnUnsubscribe.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-

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jar/rx/internal/operators/BlockingOperatorToFuture.java
*
/opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OnSubscribeJoin.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/subjects/UnicastSubject.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/functions/Action8.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/observers/TestObserver.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/functions/Action3.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/Completable.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OperatorOnBackpressureBuffer.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/Subscription.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OperatorTakeWhile.java
*
/opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
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jar/rx/internal/operators/NotificationLite.java
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jar/rx/internal/operators/BlockingOperatorNext.java

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\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/util/atomic/LinkedListNode.java  
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\* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java>  
\*/

Found in path(s):

\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/util/unsafe/ConcurrentSequencedCircularArrayQueue.java  
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\*/

Found in path(s):

\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/util/unsafe/ConcurrentCircularArrayQueue.java  
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\* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java>  
\*/

Found in path(s):

\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/util/atomic/BaseLinkedAtomicQueue.java  
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\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/CompletableSubscriber.java  
\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/CompletableFromEmitter.java  
\*  
/opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/CompletableEmitter.java  
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\*/

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\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/util/unsafe/MpscLinkedQueue.java  
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- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/plugins/RxJavaHooks.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OnSubscribeOnAssemblyCompletable.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/subscriptions/Unsubscribed.java
- \*
- /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/util/ActionNotificationObserver.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/BackpressureOverflow.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/observers/SafeCompletableSubscriber.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/exceptions/package-info.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OnSubscribeCreate.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/EmptyObservableHolder.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/SingleDelay.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/SingleTakeUntilCompletable.java
- \*
- /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/util/ActionSubscriber.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/util/InternalObservableUtils.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/plugins/RxJavaSingleExecutionHookDefault.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/observables/package-info.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/exceptions/AssemblyStackTraceException.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/observers/AsyncCompletableSubscriber.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/subjects/package-info.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/SingleFromObservable.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/SingleOnErrorReturn.java
- \*
- /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/SingleToObservable.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/util/ActionObserver.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/functions/Cancellable.java
- \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/observers/package-info.java

\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/plugins/RxJavaCompletableExecutionHook.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/SingleDoOnSubscribe.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/plugins/package-info.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/SingleDoOnUnsubscribe.java  
 \*  
 /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OnSubscribeOnAssemblySingle.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/util/ObserverSubscriber.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/SingleObserveOn.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/plugins/RxJavaSingleExecutionHook.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/SingleLiftObservableOperator.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/singles/package-info.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/annotations/package-info.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/SingleFromCallable.java  
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 /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OnSubscribeLift.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OnSubscribeFlattenIterable.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OnSubscribeOnAssembly.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/observers/AssertableSubscriberObservable.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/schedulers/SchedulePeriodicHelper.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/OnSubscribeDetach.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/subscriptions/CancellableSubscription.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/schedulers/GenericScheduledExecutorServiceFactory.java  
 \*  
 /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/operators/SingleTakeUntilSingle.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/schedulers/SchedulerWhen.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/observers/AssertableSubscriber.java  
 \* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/Emitter.java

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* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OnSubscribeThrow.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/subscriptions/package-
info.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/functions/package-info.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/CompletableFlatMapSingleToCompletable.java
*
/opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/SingleTimeout.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/SingleFromFuture.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/SingleFromEmitter.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/NeverObservableHolder.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/SingleTakeUntilObservable.java
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* Inspired from https://code.google.com/p/guava-
libraries/source/browse/guava/src/com/google/common/annotations/Beta.java
*/
```

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```
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libraries/source/browse/guava/src/com/google/common/annotations/Beta.java
*/
```

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* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/annotations/Beta.java
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/**
* This plugin class provides 2 ways to customize {@link Scheduler} functionality
* 1. You may redefine entire schedulers, if you so choose. To do so, override
* the 3 methods that return Scheduler (io(), computation(), newThread()).
* 2. You may wrap/decorate an {@link Action0}, before it is handed off to a Scheduler. The
system-
* supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler,
* Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
* modify Scheduler functionality without redefining Schedulers wholesale.
*
* Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.
* <p>
* See {@link RxJavaPlugins} or the RxJava GitHub Wiki for information on configuring plugins:
* <a
href="https://github.com/ReactiveX/RxJava/wiki/Plugins">https://github.com/ReactiveX/RxJava/wiki/Plugins</a>.
*/
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\* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/MpmcArrayQueue.java>

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jar/rx/internal/operators/OnSubscribeConcatMap.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OnSubscribeCollect.java
*
/opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/DeferredScalarSubscriber.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/DeferredScalarSubscriberSafe.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OnSubscribePublishMulticast.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OnSubscribeReduceSeed.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/SingleOperatorOnErrorResumeNext.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/SingleOperatorZip.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/schedulers/SchedulerLifecycle.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/util/SuppressAnimalSniffer.java
*
/opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OnSubscribeFromCallable.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/SingleOnSubscribeUsing.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OnSubscribeTakeLastOne.java
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/operators/OnSubscribeReduce.java
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core/src/main/java/org/jctools/queues/QueueProgressIndicators.java

```

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\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/util/unsafe/QueueProgressIndicators.java

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\*

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\* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/util/UnsafeAccess.java>

\*/

Found

in path(s):

\* /opt/cola/permits/1128344293\_1676352144.1405265/0/rxjava-1-3-0-sources-1-jar/rx/internal/util/unsafe/UnsafeAccess.java

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core/src/main/java/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
*/
```

Found in path(s):

```
* /opt/cola/permits/1128344293_1676352144.1405265/0/rxjava-1-3-0-sources-1-
jar/rx/internal/util/atomic/AtomicReferenceArrayQueue.java
```

## 1.59 juel-api 2.2.7

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Found in path(s):

```
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-jar/javax/el/CompositeELResolver.java
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-jar/javax/el/ELResolver.java
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-jar/javax/el/MethodInfo.java
*
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-
jar/javax/el/PropertyNotFoundException.java
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-jar/javax/el/ListELResolver.java
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-jar/javax/el/FunctionMapper.java
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-jar/javax/el/ArrayELResolver.java
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-jar/javax/el/ValueExpression.java
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-
jar/javax/el/MethodNotFoundException.java
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-jar/javax/el/ELContextListener.java
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-
jar/javax/el/ResourceBundleELResolver.java
```

```
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-jar/javax/el/Expression.java
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-jar/javax/el/ELContext.java
*
/opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-jar/javax/el/BeanELResolver.java
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-jar/javax/el/ValueReference.java
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-jar/javax/el/ELException.java
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-jar/javax/el/ExpressionFactory.java
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-jar/javax/el/MapELResolver.java
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-jar/javax/el/MethodExpression.java
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-jar/javax/el/VariableMapper.java
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-jar/javax/el/ELContextEvent.java
* /opt/cola/permits/1128408631_1611918005.99/0/juel-api-2-2-7-sources-1-
jar/javax/el/PropertyNotWritableException.java
```

## 1.60 lombok 1.18.12

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## 1.61 commons-lang3 2.6

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## 1.62 jcommander 1.78

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\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-

```
jar/com/beust/jcommander/UsageFormatter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/UnixStyleUsageFormatter.java
*
/opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/JCommander.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/DefaultUsageFormatter.java
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* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/IStringConverterFactory.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/converters/URLConverter.java
*
/opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/internal/Lists.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/ParameterException.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/internal/DefaultConverterFactory.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/converters/IntegerConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/converters/FileConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/converters/StringConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/IStringConverterFactory.java
```

\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/internal/Sets.java

\*

/opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/LongConverter.java

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\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/Parameters.java

\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/ParameterDescription.java

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\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/CharArrayConverter.java

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/opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/PathConverter.java

\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/ParametersDelegate.java

\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/ResourceBundle.java

\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/defaultprovider/PropertyFileDefaultProvider.java

\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/IDefaultProvider.java

\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/DoubleConverter.java

\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/BigDecimalConverter.java

\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/FloatConverter.java

\*

/opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/MissingCommandException.java

\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/NoConverter.java

\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/BooleanConverter.java

\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/Parameter.java

\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/ISO8601DateConverter.java

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```
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jar/com/beust/jcommander/validators/NoValidator.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/validators/PositiveInteger.java
*
/opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/validators/NoValueValidator.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/IPParameterValidator.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/IPParameterValidator2.java
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\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-  
jar/org/apache/commons/logging/LogFactory.java  
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jar/org/apache/commons/logging/impl/AvalonLogger.java  
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\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/WeakHashtable.java

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Found in path(s):

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/package.html

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/package.html

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Found in path(s):

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogConfigurationException.java

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-

```
jar/org/apache/commons/logging/impl/Log4JLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/LogFactoryImpl.java
*
/opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/LogSource.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/LogKitLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/Log.java
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*/
```

Found in path(s):

```
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/ServletContextCleaner.java
```

## 1.64 commons-cli 1.4

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## 1.65 jakarta-annotation-api 1.3.5

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## 1.66 commons-codec 1.14

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Java ClassMate library was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi))

Other developers who have contributed code are:

\* Brian Langel

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*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/Validator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintTarget.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/FutureOrPresent.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Null.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintValidatorContext.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ExecutableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/groups/Default.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/MessageInterpolator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/Unwrapping.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/ValueExtractor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraintvalidation/ValidationTarget.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/MethodDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/UnexpectedTypeException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/BeanDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
```

jar/javax/validation/constraints/Digits.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/valueextraction/UnwrapByDefault.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/constraints/NegativeOrZero.java  
 \*  
 /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/ConstraintViolation.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/ConstraintDefinitionException.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/metadata/ValidateUnwrappedValue.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/constraintvalidation/SupportedValidationTarget.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/groups/package-info.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/spi/ValidationProvider.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/ElementKind.java  
 \*  
 /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/metadata/GroupConversionDescriptor.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/valueextraction/ExtractedValue.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/bootstrap/GenericBootstrap.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/metadata/MethodType.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/valueextraction/ValueExtractorDeclarationException.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/metadata/ConstructorDescriptor.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/constraintvalidation/package-info.java  
 \*  
 /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/constraints/AssertTrue.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/Path.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/executable/package-info.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/valueextraction/package-info.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
 jar/javax/validation/constraints/PositiveOrZero.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractorDefinitionException.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/BootstrapConfiguration.java  
\*  
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jar/javax/validation/ConstraintDeclarationException.java

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jar/javax/validation/constraints/NotEmpty.java
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jar/javax/validation/spi/ConfigurationState.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Past.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/META-
INF/maven/jakarta.validation/jakarta.validation-api/pom.xml

```

## 1.69 jakarta-ws-rs-api 2.1.6

## 1.69.1 Available under license :

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\* Project home: <https://projects.eclipse.org/projects/ee4j.jaxrs>

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\* <https://github.com/eclipse-ee4j/jaxrs-api>

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## 1.77 hk2-api 2.6.1

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- \* <https://github.com/eclipse-ee4j/glassfish-ha-api>
- \* <https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor>
- \* <https://github.com/eclipse-ee4j/glassfish-shoal>
- \* <https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck>
- \* <https://github.com/eclipse-ee4j/glassfish-jsftemplating>
- \* <https://github.com/eclipse-ee4j/glassfish-hk2-extra>
- \* <https://github.com/eclipse-ee4j/glassfish-hk2>
- \* <https://github.com/eclipse-ee4j/glassfish-fightersfish>

## ## Third-party Content

This project leverages the following third party content.

None

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# 1.80 joda-time 2.10.1

## 1.80.1 Available under license :

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# 1.81 javassist 3.24.1-GA

## 1.81.1 Available under license :

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Found in path(s):

\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/CannotCompileException.java  
\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/ClassFilePrinter.java  
\*  
/opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/ClassFile.java  
\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/analysis/Analyzer.java  
\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/scopedpool/SoftValueHashMap.java  
\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/CastExpr.java  
\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java  
\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/ClassPool.java  
\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/compiler/CompileError.java  
\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/expr/Handler.java  
\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/convert/TransformCall.java  
\*  
/opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/stackmap/Tracer.java  
\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/compiler/JvstTypeChecker.java  
\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/analysis/ControlFlow.java  
\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/compiler/TokenId.java  
\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/MethodInfo.java  
\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/LocalVariableTypeAttribute.java  
\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/util/proxy/SerializedProxy.java  
\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/convert/TransformBefore.java  
\*  
/opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/Loader.java  
\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/compiler/SyntaxError.java  
\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-

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jar/javassist/bytecode/stackmap/TypeData.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/LocalVariableAttribute.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/analysis/Util.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/convert/TransformAfter.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/ast/DoubleConst.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/tools/rmi/ObjectNotFoundException.java
*
/opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/ByteArrayClassPath.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/ByteStream.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/ast/Member.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/tools/reflect/Metaobject.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/Mnemonic.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/CodeAnalyzer.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/expr/MethodCall.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/tools/Dump.java
*
/opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/ast/FieldDecl.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/analysis/Subroutine.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/tools/web/Viewer.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/CtClass.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/ByteArray.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/util/proxy/DefineClassHelper.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/CtPrimitiveType.java
*
/opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/CtMethod.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-

```

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jar/javassist/util/proxy/ProxyObject.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/CtField.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/ast/Declarator.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/ast/StringL.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/expr/NewArray.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/ast/Stmnt.java
*
/opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/convert/TransformAccessArrayField.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/SignatureAttribute.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/DuplicateMemberException.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/ast/Variable.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/runtime/Cflow.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/scopedpool/ScopedClassPool.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/DeprecatedAttribute.java
*
/opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/util/proxy/SecurityActions.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/ast/Expr.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/stackmap/MapMaker.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/MemberResolver.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/Translator.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/CodeIterator.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/util/proxy/ProxyFactory.java
*
/opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/CodeConverter.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/AnnotationsAttribute.java

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\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/CtNewConstructor.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/convert/TransformNewClass.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/Bytecode.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/scopedpool/ScopedClassPoolRepository.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/Keyword.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/SyntheticAttribute.java  
 \*  
 /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/URLClassPath.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/analysis/Executor.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/compiler/TypeChecker.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/NewExpr.java  
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 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/tools/reflect/Loader.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/ConstPool.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/CtArray.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/BadBytecode.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/MethodDecl.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/StackMap.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/analysis/FramePrinter.java  
 \*

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/opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/tools/reflect/CannotReflectException.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/convert/TransformNew.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/CtBehavior.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/LineNumberAttribute.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/stackmap/BasicBlock.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/convert/TransformWriteField.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/CtNewWrappedConstructor.java
*
/opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/ClassClassPath.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/InstructionPrinter.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/CodeAttribute.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/stackmap/TypedBlock.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/annotation/NoSuchClassError.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/SerialVersionUID.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/stackmap/TypeTag.java
*
/opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/ast/CallExpr.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/analysis/MultiType.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/analysis/Type.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/convert/TransformReadField.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/tools/web/Webserver.java

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* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/expr/Expr.java
*
/opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/expr/FieldAccess.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/runtime/Desc.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/expr/ExprEditor.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/LongVector.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/CtMember.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/JvstCodeGen.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/tools/rmi/RemoteRef.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/CtConstructor.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/ast/ASTList.java
*
/opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/expr/Instanceof.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/ast/IntConst.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/MemberCodeGen.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/ClassPoolTail.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/NestHostAttribute.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/analysis/Frame.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/NestMembersAttribute.java
*
/opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/convert/Transformer.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/tools/rmi/Sample.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/compiler/Lex.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/ast/AssignExpr.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/compiler/ProceedHandler.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/util/proxy/FactoryHelper.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/tools/web/BadHttpRequest.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/analysis/SubroutineScanner.java
*

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/opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-  
 jar/javassist/bytecode/ParameterAnnotationsAttribute.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-  
 jar/javassist/bytecode/AttributeInfo.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-  
 jar/javassist/compiler/SymbolTable.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-  
 jar/javassist/tools/reflect/Compiler.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/CtNewClass.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-  
 jar/javassist/bytecode/AnnotationDefaultAttribute.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/Pair.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-  
 jar/javassist/CtNewWrappedMethod.java  
 \*  
 /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-  
 jar/javassist/bytecode/annotation/AnnotationImpl.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-  
 jar/javassist/tools/rmi/StubGenerator.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-  
 jar/javassist/bytecode/EnclosingMethodAttribute.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/Modifier.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/runtime/Inner.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-  
 jar/javassist/tools/reflect/CannotInvokeException.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-  
 jar/javassist/compiler/KeywordTable.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-  
 jar/javassist/compiler/ast/ASTree.java  
 \*  
 /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-  
 jar/javassist/tools/reflect/CannotCreateException.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-  
 jar/javassist/util/proxy/MethodFilter.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/util/proxy/Proxy.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-  
 jar/javassist/bytecode/ConstantAttribute.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-  
 jar/javassist/util/proxy/MethodHandler.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-  
 jar/javassist/bytecode/ExceptionTable.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/tools/Callback.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/util/HotSwapper.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-  
 jar/javassist/bytecode/Descriptor.java  
 \*  
 /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-  
 jar/javassist/bytecode/StackMapTable.java

\* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/Opcodes.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/ClassMap.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/analysis/MultiArrayType.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/BinExpr.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/tools/rmi/Proxy.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/CtClassType.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/compiler/CodeGen.java  
 \*  
 /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/tools/reflect/ClassMetaobject.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/util/proxy/ProxyObjectInputStream.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/compiler/Javac.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationsWriter.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/runtime/DotClass.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/expr/NewExpr.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/AccessFlag.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/expr/ConstructorCall.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/ClassPath.java  
 \*  
 /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/tools/rmi/ObjectImporter.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/tools/reflect/Sample.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/NotFoundException.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/compiler/NoFieldException.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/convert/TransformFieldAccess.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/SourceFileAttribute.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/expr/Cast.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/compiler/Parser.java  
 \*  
 /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/compiler/ast/CondExpr.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/tools/framedump.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/CtNewMethod.java  
 \* /opt/cola/permits/1136375532\_1613752600.16/0/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/ClassFileWriter.java

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```
/*
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 */
```

Found in path(s):

```
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/annotation/DoubleMemberValue.java
*
 /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/annotation/StringMemberValue.java
*
 /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
```

```
jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1136375532_1613752600.16/0/javassist-3-24-1-ga-sources-3-
jar/javassist/bytecode/annotation/IntegerMemberValue.java
```

## 1.82 activation 1.1.1

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Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

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\*/

Found in path(s):

\* /opt/cola/permits/1145468562\_1616183623.24/0/opentest4j-1-2-0-sources-1-

```
jar/org/opentest4j/TestSkippedException.java
* /opt/cola/permits/1145468562_1616183623.24/0/opentest4j-1-2-0-sources-1-
jar/org/opentest4j/MultipleFailuresError.java
* /opt/cola/permits/1145468562_1616183623.24/0/opentest4j-1-2-0-sources-1-
jar/org/opentest4j/AssertionFailedError.java
*
/opt/cola/permits/1145468562_1616183623.24/0/opentest4j-1-2-0-sources-1-
jar/org/opentest4j/IncompleteExecutionException.java
* /opt/cola/permits/1145468562_1616183623.24/0/opentest4j-1-2-0-sources-1-
jar/org/opentest4j/TestAbortedException.java
* /opt/cola/permits/1145468562_1616183623.24/0/opentest4j-1-2-0-sources-1-
jar/org/opentest4j/ValueWrapper.java
```

## 1.89 re2j 1.2

### 1.89.1 Available under license :

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```
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```

Found in path(s):

```
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Parser.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Regexp.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Utils.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Machine.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Inst.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Prog.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/CharClass.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/RE2.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Compiler.java
*
```

```
/opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-
jar/com/google/re2j/PatternSyntaxException.java
```

```
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/MachineInput.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Unicode.java
```

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```
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```

Found in path(s):

```
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Matcher.java
* /opt/cola/permits/1157317048_1619537047.34/0/re2j-1-2-sources-1-jar/com/google/re2j/Pattern.java
```

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# 1.90 antlr 4.6

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\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.java

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\*/

/\*

This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/\*stg files, according to the chosen locale.

This file contains the default format ANTLR uses.

\*/

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

Found in path(s):

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg

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\*/

Found in path(s):

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/Tool.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ErrorMessage.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/gui/PostScriptDocument.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/semantics/SemanticPipeline.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/GrammarParserInterpreter.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/gui/SystemFontMetrics.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/ListenerDispatchMethod.java

\*

/opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_int.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/automata/LexerATNFactory.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_text.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LL1Loop.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/QRetValueRef.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/RuleActionFunction.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/Choice.java

\*

/opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/Alternative.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/OptionalBlock.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/target/Python2Target.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LexerFile.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/BaseVisitorFile.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/RuleElement.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef\_text.java

\*

/opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/RetValueRef.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/ArgAction.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/target/JavaScriptTarget.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/RuleElementAST.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LL1OptionalBlockSingleAlt.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/Sync.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/LabelElementPair.java  
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 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/ArgRef.java  
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 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/target/CppTarget.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/LexerGrammar.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/misc/FrequencySet.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/Lexer.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java  
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 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/AltAST.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/OutputModelObject.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/LeftRecursionCyclesMessage.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java  
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 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ToolMessage.java  
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 /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/RuleSempredFunction.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/parse/v4ParserException.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/LL1Choice.java  
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 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ANTLRToolListener.java  
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 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/ActionTranslator.java  
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 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/CodeGeneratorExtension.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/parse/GrammarASTAdaptor.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/OutputModelController.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/Action.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/gui/BasicFontMetrics.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/Attribute.java  
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 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/dbg.java  
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 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/parse/TokenVocabParser.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/automata/ATNFactory.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/MatchSet.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/RuleRefAST.java  
 \*  
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 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef\_stop.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef\_parser.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/ElementFrequenciesVisitor.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/AltLabelStructDecl.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/gui/TreePostScriptGenerator.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ANTLRMessage.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/LexerFactory.java  
 \*  
 /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/semantics/RuleCollector.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/semantics/BasicSemanticChecks.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/gui/Trees.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/analysis/AnalysisPipeline.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_type.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/target/Python3Target.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/BlankOutputModelFactory.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/RuleAST.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/OutputFile.java  
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 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/StructDecl.java

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/MatchNotSet.java  
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 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/CodeBlockForAlt.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/AttributeDecl.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/GrammarInterpreterRuleContext.java  
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\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/BaseListenerFile.java  
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 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/DispatchMethod.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/AttributeResolver.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/target/GoTarget.java  
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 /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/decl/RuleContextListDecl.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/ThrowNoViableAlt.java  
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 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/Rule.java  
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jar/org/antlr/v4/codegen/model/decl/ContextRuleGetterDecl.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/Loop.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/TerminalAST.java
*
/opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/SetAST.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/semantics/SymbolChecks.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/model/VisitorDispatchMethod.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_ctx.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/model/MatchToken.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/ActionAST.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ErrorSeverity.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/misc/Graph.java
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/opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/semantics/UseDefAnalyzer.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/parse/ToolANTLR Lexer.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/tool/GrammarSemanticsMessage.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/Wildcard.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/NotAST.java
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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/LeftRecursiveRule.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/DOTGenerator.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/model/ExceptionClause.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/tool/DefaultToolListener.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java

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\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/SrcOp.java  
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 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/semantics/BlankActionSplitterListener.java  
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 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/ListenerFile.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/OutputModelWalker.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/BuildDependencyGenerator.java  
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 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/semantics/ActionSniffer.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/ThrowRecognitionException.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/misc/CharSupport.java  
 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_channel.java  
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 \* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ast/PlusBlockAST.java

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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
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/opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/parse/ActionSplitterListener.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/gui/JFileChooserConfirmOverwrite.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/codegen/model/Parser.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/misc/OrderedHashMap.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/ErrorMessage.java
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* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/OutputModelFactory.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/analysis/LeftRecursionDetector.java
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_pos.java
*
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/opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/misc/Utils.java
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// args must be <object-model-object>, <fields-resulting-in-STs>

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<  
<fileHeader(file.grammarFileName, file.ANTLRVersion)>  
<if(file.genPackage)>  
namespace <file.genPackage> {  
<endif>  
<namedActions.header>  
using System;  
using System.Text;  
using System.Diagnostics;  
using System.Collections.Generic;  
using Antlr4.Runtime;  
using  
    Antlr4.Runtime.Atn;  
using Antlr4.Runtime.Misc;  
using Antlr4.Runtime.Tree;  
using DFA = Antlr4.Runtime.Dfa.DFA;  
  
<parser>  
<if(file.genPackage)>  
} // namespace <file.genPackage>  
<endif>  
>>
```

```
ListenerFile(file, header, namedActions) ::= <<  
<fileHeader(file.grammarFileName, file.ANTLRVersion)>  
<if(file.genPackage)>  
namespace <file.genPackage> {  
<endif>  
<header>  
using Antlr4.Runtime.Misc;  
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;  
using IToken = Antlr4.Runtime.IToken;  
  
/// \<summary>  
/// This interface defines a complete listener for a parse tree produced by  
/// \<see cref="<csIdentifier.(file.parserName)>">/>.  
/// \</summary>  
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]  
[System.CLSCompliant(false)]  
public interface I<file.grammarName>Listener : IParseTreeListener {  
    <file.listenerNames: {Iname |  
    /// \<summary>
```

```

<if(file.listenerLabelRuleNames.(lname))>
  /// Enter a parse tree produced by the \<c><lname>\</c>
  /// labeled alternative in
  \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>">/>.
<else>
  /// Enter a parse tree produced by \<see cref="<file.parserName>.<lname>">/>.
<endif>
  /// \</summary>
  /// \<param name="context">The parse tree.\</param>
  void Enter<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context
  context);
  /// \<summary>
  <if(file.listenerLabelRuleNames.(lname))>
    /// Exit a parse tree produced by the \<c><lname>\</c>
    /// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>">/>.
  <else>
    /// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>">/>.
  <endif>
  /// \</summary>
  /// \<param name="context">The parse tree.\</param>
  void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context
  context);}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

BaseListenerFile(file, header, namedActions) ::= <<

```

```

<fileHeader(file.grammarFileName,
  file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>

```

```

using Antlr4.Runtime.Misc;
using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
using ITerminalNode = Antlr4.Runtime.Tree.ITerminalNode;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

```

```

  /// \<summary>
  /// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
  /// which can be extended to create a listener which only needs to handle a subset
  /// of the available methods.
  /// \</summary>
  [System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]

```

```

[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
    <file.listenerNames: { Iname |
/// \<summary>
<if(file.listenerLabelRuleNames.(Iname))>
/// Enter a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>">/.
<else>
///
/// Enter a parse tree produced by \<see cref="<file.parserName>.<Iname>">/.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Enter<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
format="cap">Context context) { \}
/// \<summary>
<if(file.listenerLabelRuleNames.(Iname))>
/// Exit a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>">/.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<Iname>">/.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Exit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
format="cap">Context context) { \} }; separator="\n">

/// \<inheritdoc>
/// \<remarks>The default implementation does nothing.\</remarks>
public
virtual void EnterEveryRule([NotNull] ParserRuleContext context) { }
/// \<inheritdoc>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { }
/// \<inheritdoc>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void VisitTerminal([NotNull] ITerminalNode node) { }
/// \<inheritdoc>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void VisitErrorNode([NotNull] IErrorNode node) { }
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete generic visitor for a parse tree produced
/// by \<see
    cref="<csIdentifier.(file.parserName)>"/>.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Visitor<Result> : IParseTreeVisitor<Result> {
    <file.visitorNames>: { Iname |
/// \<summary>
<if(file.visitorLabelRuleNames.(Iname))>
/// Visit a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(Iname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<Iname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
Result Visit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname; format="cap">Context
context);}; separator="\n"
    }
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

BaseVisitorFile(file, header,
namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

```

```
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;
```

```
/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Visitor{Result}">,
/// which can be extended to create a visitor which only needs to handle a subset
/// of the available methods.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor<Result> : AbstractParseTreeVisitor<Result>,
I<file.grammarName>Visitor<Result> {
    <file.visitorNames> { Iname |
    /// \<summary>
    <if(file.visitorLabelRuleNames.(Iname))>
    /// Visit a parse tree produced by the \<c><Iname>\</c>
    ///
    /// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(Iname)>">.
    <else>
    /// Visit a parse tree produced by \<see cref="<file.parserName>.<Iname>">.
    <endif>
    /// \<para>
    /// The default implementation returns the result of calling \<see
    cref="AbstractParseTreeVisitor{Result}.VisitChildren(IRuleNode)">
    /// on \<paramref name="context">.
    /// \</para>
    /// \</summary>
    /// \<param name="context">The parse tree.\</param>
    /// \<return>The visitor result.\</return>
    public virtual Result Visit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
    format="cap">Context context) { return VisitChildren(context); \}; separator="\n">
    }
    <if(file.genPackage)>
    } // namespace <file.genPackage>
    <endif>
    >>
}
```

```
fileHeader(grammarFileName, ANTLRVersion) ::= <<
```

```
//-----
// \<auto-generated>
// This code was generated by a tool.
// ANTLR Version: <ANTLRVersion>
//
// Changes
// to this file may cause incorrect behavior and will be lost if
// the code is regenerated.
// \</auto-generated>
//-----
```

```

// Generated from <grammarFileName> by ANTLR <ANTLRVersion>

// Unreachable code detected
#pragma warning disable 0162
// The variable '...' is assigned but its value is never used
#pragma warning disable 0219
// Missing XML comment for publicly visible type or member '...'
#pragma warning disable 1591
// Ambiguous reference in cref attribute
#pragma warning disable 419

>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(parser.name)> : <superClass; null="Parser"> {
    protected static DFA[] decisionToDFA;
    protected static PredictionContextCache
sharedContextCache = new PredictionContextCache();
    <if(parser.tokens)>
    public const int
    <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
    <endif>
    public const int
    <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
    public static readonly string[] ruleNames = {
    <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
    };

    <vocabulary(parser.literalNames, parser.symbolicNames)>

    public override string GrammarFileName { get { return "<parser.grammarFileName>"; } }

    public override string[] RuleNames { get { return ruleNames; } }

    public override string SerializedAtn { get { return _serializedATN; } }

    static <csIdentifier.(parser.name)>() {
        decisionToDFA = new DFA[_ATN.NumberOfDecisions];
        for (int i = 0; i < _ATN.NumberOfDecisions; i++) {
            decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
        }
    }
}

```

```

}

<namedActions.members>
<parser:(ctor)()>
<funcs; separator="\n">

<if(sempredFuncs)>
public override
bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
switch (ruleIndex) {
<parser.sempredFuncs.values:{f]
case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
}
return true;
}
<sempredFuncs.values; separator="\n">
<endif>

<atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static readonly string[] _LiteralNames = {
<literalNames:{t | <t>}; null="null", separator=" ", wrap, anchor>
};
private static readonly string[] _SymbolicNames = {
<symbolicNames:{t | <t>}; null="null", separator=" ", wrap, anchor>
};
public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);

[NotNull]
public override IVocabulary Vocabulary
{
get
{
return DefaultVocabulary;
}
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
public override void Action(RuleContext _localctx, int ruleIndex, int actionIndex) {
switch (ruleIndex) {
<recog.actionFuncs.values:{f]
case

```

```

    <f.ruleIndex> : <f.name>_action(<if(!recog.modes)>(<f.ctxType><endif>_localctx, actionIndex); break;};
separator="\n">
}
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <recog.sempredFuncs.values:{f|
case <f.ruleIndex> : return <f.name>_sempred(<if(!recog.modes)>(<f.ctxType><endif>_localctx, predIndex));};
separator="\n">
        }
        return true;
    }
<sempredFuncs.values; separator="\n">
<endif>
>>

```

```

parser_ctor(parser) ::= <<
public <csIdentifier.(parser.name)>(ITokenStream input)
: base(input)
{
    Interpreter = new ParserATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}
>>

```

/\* This generates a private method since the actionIndex is generated, making an  
\* overriding implementation impossible to maintain.

```

*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
    switch (actionIndex)
    {
        <actions:{index|
case <index>: <actions.(index)> break;}; separator="\n">
        }
    }
}
>>

```

/\* This generates a private method since the predIndex is generated, making an  
\* overriding implementation impossible to maintain.

```

*/
RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
    switch (predIndex) {
        <actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
    }
}
>>

```

```

}
return true;
}
>>

```

```

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

```

```

<if(ruleCtx)>
<ruleCtx>
<endif>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)><(<args; separator=", ">) {
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
  <csIdentifier.(a.name)>}>>);
  EnterRule(_localctx,
  <currentRule.startState>, RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">
  try {
  <if(currentRule.hasLookaheadBlock)>
  int _alt;
  <endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
  }
  <endif>
  finally {
  <finallyAction>
  ExitRule();
  }
  return _localctx;
  }
>>

```

```

LeftFactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=

```

<<

```
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)><(args; separator=", "> {
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>>>);
  EnterLeftFactoredRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
  <namedActions.init>
  <locals;
  separator="\n">
  try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
  catch (RecognitionException re) {
    _localctx.exception = re;
    ErrorHandler.ReportError(this, re);
    ErrorHandler.Recover(this, re);
  }
  finally {
    <finallyAction>
    ExitRule();
  }
  return _localctx;
}
>>
```

```
// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.
```

```
LeftUnfactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<
```

```
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)><(args; separator=", "> {
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>>>);
  EnterRule(_localctx,
  <currentRule.startState>, RULE_<currentRule.variantOf>);
  <namedActions.init>
  <locals; separator="\n">
  try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
```

```

<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
}
catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
}
finally {
  <finallyAction>
  ExitRule();
}
return _localctx;
}
>>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
  namedActions,finallyAction,postamble) ::=
<<

```

```

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

```

```

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator=", ">) {
  return <csIdentifier.(currentRule.name)>(0<currentRule.args:{a | , <csIdentifier.(a.name)>}>);
}

```

```

private <currentRule.ctxType> <csIdentifier.(currentRule.name)>(int
  _p<args:{a | , <a>}>) {
  ParserRuleContext _parentctx = Context;
  int _parentState = State;
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args:{a | ,
  <csIdentifier.(a.name)>}>);
  <currentRule.ctxType> _prevctx = _localctx;
  int _startState = <currentRule.startState>;
  EnterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
  <namedActions.init>
  <locals; separator="\n">
  try {
  <if(currentRule.hasLookaheadBlock)>
    int _alt;
  <endif>
  <code>
  <postamble; separator="\n">

```

```

    <namedActions.after>
  }
  catch (RecognitionException re) {
    _localctx.exception = re;
    ErrorHandler.ReportError(this, re);
    ErrorHandler.Recover(this, re);
  }
  finally {
    <finallyAction>
    UnrollRecursionContexts(_parentctx);
  }
  return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
EnterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
<error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch (TokenStream.LA(1)) {

```

```

<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
default:
  <error>
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
  State = <choice.stateNumber>;
  ErrorHandler.Sync(this);
  <preamble; separator="\n">
  if (<expr>) {
    <alts; separator="\n">
  }
  <!else if ( !(<followExpr>) ) <error!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
  State = <choice.stateNumber>;
  ErrorHandler.Sync(this);
  <preamble; separator="\n">
  while (<loopExpr>) {
    <alts; separator="\n">
    State = <choice.loopBackStateNumber>;
    ErrorHandler.Sync(this);
    <iteration>
  }
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
  State = <choice.blockStartStateNumber>;<! alt block decision !>
  ErrorHandler.Sync(this);
  <preamble; separator="\n">
  do {
    <alts; separator="\n">
    State = <choice.stateNumber>;<! loopback/exit decision !>
    ErrorHandler.Sync(this);
    <iteration>
  } while ( <loopExpr> );
>>

```

```
// LL(*) stuff
```

```

AltBlock(choice, preamble, alts, error) ::= <<
  State = <choice.stateNumber>;
  ErrorHandler.Sync(this);

```

```

<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble;
separator="\n">
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i>:
<alt>
break;}; separator="\n">
}
>>

```

```

OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER ) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
<iteration>
<alts> <! should only be one !>
}
State = <choice.loopBackStateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
State
= <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
switch ( _alt ) {
<alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">

```

```

default:
  <error>
}
State = <choice.loopBackStateNumber>;<! loopback/exit decision !>
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "Sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>} ; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount> & ~0x3f) == 0
>>

// produces
smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({ <offsetShift(s.varName, bits.shift)>}) >&& ((1L \<< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ ttype | (1L \<< <offsetShift(tokenType.(ttype), bits.shift)>)} ; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ ttype | <s.varName>==<tokenType.(ttype)>} ; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{ t | case <tokenType.(t)>:}; separator="\n">
>>

```

```

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>; <if(r.labels)><r.labels:{1 | <labelref(l)> =
}><endif><csIdentifier.(r.name)><(if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><arg
ExprsChunks>;
>>

```

```

MatchToken(m)

```

```

::= <<
State = <m.stateNumber>; <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>Match(<tokenType.(m.name)>);
>>

```

```

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

```

```

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

```

```

CommonSetStuff(m, expr, capture, invert) ::= <<

```

```

State = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>TokenStream.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
  <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>ErrorHandler.RecoverInline(this);
}
else {
  ErrorHandler.ReportMatch(this);
  Consume();
}
>>

```

```

Wildcard(w) ::= <<

```

```

State = <w.stateNumber>;
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>MatchWildcard();
>>

```

```

// ACTION STUFF

```

```

Action(a, foo, chunks) ::= "<chunks>"

```

```

ArgAction(a, chunks) ::= "<chunks>"

```

```

SemPred(p, chunks, failChunks) ::= <<

```

```

State = <p.stateNumber>;
if (!<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
  <failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

```

```

ExceptionClause(e, catchArg, catchAction) ::= <<

```

```

catch (<catchArg>) {
  <catchAction>
}

```

```

}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "Skip();"
LexerMoreCommand() ::= "More();"
LexerPopModeCommand() ::= "PopMode();"

LexerTypeCommand(arg, grammar) ::= "_type = <tokenType.(arg)>";
LexerChannelCommand(arg, grammar) ::= "_channel = <channelName.(arg)>";
LexerModeCommand(arg, grammar) ::= "_mode = <modeName.(arg)>";
LexerPushModeCommand(arg, grammar) ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
LocalRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
RetValRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
QRRetValRef(a) ::= "<ctx(a)>.<a.dict>.<csIdentifier.(a.name)>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<csIdentifier.(tokenType.(t.name))>"
LabelRef(t)
 ::= "<ctx(t)>.<csIdentifier.(t.name)>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(csIdentifier.(t.name))>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<csIdentifier.(s.name)> = <rhsChunks>";

TokenLabelType() ::= "<file.TokenLabelType; null={IToken}>"
InputSymbolType() ::= "<file.InputSymbolType; null={IToken}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::=
 "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t) ::=
 "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"
TokenPropertyRef_index(t) ::=
 "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t)
 ::= "<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null)"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_text(r) ::=
 "<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

```

```

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
ThisRulePropertyRef_stop(r) ::= "_localctx.Stop"
ThisRulePropertyRef_text(r) ::= "TokenStream.GetText(_localctx.Start, TokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)>%>
SetNonLocalAttr(s, rhsChunks) ::=
<%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)>
= <rhsChunks>;%>

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.Add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType() <csIdentifier.(tokenType.(t.name))>"
TokenTypeDecl(t) ::= "int <csIdentifier.(tokenType.(t.name))>);"
TokenListDecl(t) ::= "IList<IToken> <csIdentifier.(tokenType.(t.name))> = new List<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <csIdentifier.(r.name)>"
RuleContextListDecl(rdecl) ::= "IList<<rdecl.ctxName>> <csIdentifier.(rdecl.name)> = new
List<<rdecl.ctxName>>()"

contextGetterCollection(elementType) ::= <%
<elementType>[]
%>

ContextTokenGetterDecl(t) ::=
    "public ITerminalNode <csIdentifier.(tokenType.(t.name))>() { return
GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, 0); }"
ContextTokenListGetterDecl(t) ::= <<
public <contextGetterCollection("ITerminalNode")> <csIdentifier.(tokenType.(t.name))>() { return
GetTokens(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>);
}
>>
ContextTokenListIndexedGetterDecl(t) ::= <<
public ITerminalNode <csIdentifier.(tokenType.(t.name))>(int i) {
return GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, i);
}
>>
ContextRuleGetterDecl(r) ::= <<
public <r.ctxName> <csIdentifier.(r.name)>() {
return GetRuleContext<<r.ctxName>>()>(0);
}
>>
ContextRuleListGetterDecl(r) ::= <<
public <contextGetterCollection({<r.ctxName>})> <csIdentifier.(r.name)>() {
return GetRuleContexts<<r.ctxName>>()>();
}

```

```

>>
ContextRuleListIndexedGetterDecl(r) ::= <<
public <r.ctxName> <csIdentifier.(r.name)>(int i) {
    return GetRuleContext\<<<r.ctxName>\>(i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label)
    ::= "_<label>"

CaptureNextToken(d) ::= "<d.varName> = TokenStream.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = TokenStream.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
    superClass={ParserRuleContext}) ::= <<
public partial class <struct.name> :
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
    <attrs:{a | public <a>;}; separator="\n">
    <getters:{g | <g>;}; separator="\n">
    <if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) : base(parent, invokingState) {
    }<endif>
    public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>>)>
    : base(parent, invokingState)
    {
        <struct.ctorAttrs:{a | this.<csIdentifier.(a.name)> = <csIdentifier.(a.name)>;}; separator="\n">
    }
    public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
<if(struct.provideCopyFrom)><! don't
need copy unless we have subclasses !>
    public <struct.name>() { }
    public virtual void CopyFrom(<struct.name> context) {
        base.CopyFrom(context);
        <struct.attrs:{a | this.<csIdentifier.(a.name)> = context.<csIdentifier.(a.name)>;}; separator="\n">
    }
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">

```

```
}  
>>
```

```
AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<  
public partial class <struct.name> : <currentRule.name; format="cap">Context {  
  <attrs:{a | public <a>;}; separator="\n">  
  <getters:{g | <g>;}; separator="\n">  
  public <struct.name>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }  
  <dispatchMethods; separator="\n">  
}  
>>
```

```
ListenerDispatchMethod(method) ::= <<  
public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {  
  I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;  
  if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName;  
  format="cap">(this);  
}  
>>
```

```
VisitorDispatchMethod(method) ::= <<  
public override TResult Accept<TResult>(IParseTreeVisitor<TResult> visitor) {  
  I<parser.grammarName>Visitor<TResult> typedVisitor = visitor as I<parser.grammarName>Visitor<TResult>;  
  if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);  
  else return visitor.VisitChildren(this);  
}  
>>
```

```
AttributeDecl(d) ::= "<d.type> <csIdentifier.(d.name)><if(d.initValue)> = <d.initValue><endif>"
```

```
/** If we don't know location of label def x, use this template */
```

```
labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)>.<endif><csIdentifier.(x.name)>"
```

```
/** For any action chunk, what is correctly-typed context struct ptr? */
```

```
ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>"
```

```
// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
```

```
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"
```

```
//
```

```
used for left-recursive rules
```

```
recRuleAltPredicate(ruleName,opPrec) ::= "Precpred(Context, <opPrec>)"
```

```
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>;"
```

```
recRuleSetStopToken() ::= "Context.Stop = TokenStream.LT(-1);"
```

```
recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
```

```
_localctx = new <ctxName>Context(_parentctx, _parentState);
```

```
<if(label)>
```

```

<if(isListLabel)>
_localctx.<label>.Add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

```

```

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx,
_startState, RULE_<ruleName>);
>>

```

```

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
Context = _localctx;
_prevctx = _localctx;
>>

```

```

recRuleSetPrevCtx() ::= <<
if ( ParseListeners!=null )
TriggerExitRuleEvent();
_prevctx = _localctx;
>>

```

```

LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.Text;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;

```

```

<lexer>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(lexer.name)> : <superClass; null="Lexer"> {
protected static DFA[] decisionToDFA;
protected static PredictionContextCache
sharedContextCache = new PredictionContextCache();
public const int
<lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
<if(lexer.channels)>
public const int
<lexer.channels:{k | <csIdentifier.(k)>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>;
<endif>
<rest(lexer.modes):{m| public const int <modeName.(m)> = <i>;}; separator="\n">
public static string[] modeNames = {
<lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
};

public static readonly string[] ruleNames = {
<lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
};

<namedActions.members>

public <csIdentifier.(lexer.name)>(ICharStream input)
: base(input)
{
Interpreter = new LexerATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

public override string GrammarFileName { get { return "<lexer.grammarFileName>"; } }

public override string[] RuleNames { get { return ruleNames;
} }

public override string[] ModeNames { get { return modeNames; } }

public override string SerializedAtn { get { return _serializedATN; } }

```

```

static <csIdentifier.(lexer.name)>() {
    decisionToDFA = new DFA[_ATN.NumberOfDecisions];
    for (int i = 0; i < _ATN.NumberOfDecisions; i++) {
        decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
    }
}
<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>

```

```

SerializedATN(model) ::= <<
private static string _serializedATN = _serializeATN();
private static string _serializeATN()
{
    StringBuilder sb = new StringBuilder();
    sb.Append("<model.serialized; wrap={\"};<n><t>sb.Append(\">");
    return sb.ToString();
}

```

```

public static readonly ATN _ATN =
    new ATNDeserializer().Deserialize(_serializedATN.ToCharArray());

```

```
>>
```

```

initValue(typeName) ::= <<
default(<typeName>)
>>

```

```
codeFileExtension() ::= ".cs"
```

```

modeName ::= [
    "DEFAULT_MODE" : "DefaultMode",
    default : key
]

```

```

channelName ::= [
    "HIDDEN" : "Hidden",
    "DEFAULT_TOKEN_CHANNEL"
    : "DefaultTokenChannel",
    default : key
]

```

```

tokenType ::= [
    "EOF" : "Eof",
    default : key
]

```

]

```
csIdentifier ::= [  
  "abstract" : "@abstract",  
  "as" : "@as",  
  "base" : "@base",  
  "bool" : "@bool",  
  "break" : "@break",  
  "byte" : "@byte",  
  "case" : "@case",  
  "catch" : "@catch",  
  "char" : "@char",  
  "checked" : "@checked",  
  "class" : "@class",  
  "const" : "@const",  
  "continue" : "@continue",  
  "decimal" : "@decimal",  
  "default" : "@default",  
  "delegate" : "@delegate",  
  "do" : "@do",  
  "double" : "@double",  
  "else" : "@else",  
  "enum" : "@enum",  
  "event" : "@event",  
  "explicit" : "@explicit",  
  "extern" : "@extern",  
  "false" : "@false",  
  "finally" : "@finally",  
  "fixed" : "@fixed",  
  "float" : "@float",  
  "for" : "@for",  
  "foreach" : "@foreach",  
  "goto" : "@goto",  
  "if" : "@if",  
  "implicit" : "@implicit",  
  "in" : "@in",  
  "int" : "@int",  
  "interface" : "@interface",  
  "internal" : "@internal",  
  "is" : "@is",  
  "lock" : "@lock",  
  "long" : "@long",  
  "namespace" : "@namespace",  
  "new" : "@new",  
  "null"  
  : "@null",  
  "object" : "@object",  
  "operator" : "@operator",
```

```
"out" : "@out",
"override" : "@override",
"params" : "@params",
"private" : "@private",
"protected" : "@protected",
"public" : "@public",
"readonly" : "@readonly",
"ref" : "@ref",
"return" : "@return",
"sbyte" : "@sbyte",
"sealed" : "@sealed",
"short" : "@short",
"sizeof" : "@sizeof",
"stackalloc" : "@stackalloc",
"static" : "@static",
"string" : "@string",
"struct" : "@struct",
"switch" : "@switch",
"this" : "@this",
"throw" : "@throw",
>true" : "@true",
"try" : "@try",
"typeof" : "@typeof",
"uint" : "@uint",
"ulong" : "@ulong",
"unchecked" : "@unchecked",
"unsafe" : "@unsafe",
"ushort" : "@ushort",
"using" : "@using",
"virtual" : "@virtual",
"void" : "@void",
"volatile" : "@volatile",
"while" : "@while",
default : key
]
```

Found in path(s):

```
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
```

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```
/*
```

```
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\*/

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\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/parse/ANTLRParser.java

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\*/

```
// File   : A3Lexer.g
// Author  : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version  : First implemented as part of ANTLR 3.2 this is the self
//           hosting ANTLR 3 Lexer.
//
// Description
// -----
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are
// derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grmmars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
//    for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options'"
//    vs: "You cannot specify two options{ }
//        sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
//    and report them specifically and not just issue confusing lexer mismatch errors.
//
/** Read in an ANTLR grammar and build an AST. Try not to do
 * any actions, just build the tree.
 *
 * The phases are:
 *
 * A3Lexer.g (this file)
 *     A3Parser.g
 *     A3Verify.g (derived from A3Walker.g)
```

```

* assign.types.g
* define.g
* buildnfa.g
* antlr.print.g (optional)
* codegen.g
*
* Terence Parr
* University of San Francisco
* 2005
* Jim Idle (this v3 grammar)
* Temporal Wave LLC
* 2009
*/

```

```
lexer grammar ANTLRLexer;
```

```

// =====
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser
// does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// =====

// -----
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
options {

// Target language is Java, which is the default but being specific
// here as this grammar is also meant as a good example grammar for
// for users.
//
language    = Java;

// The super class that this lexer should expect to inherit from, and
// which contains any and all support routines for the lexer. This is
// commented out in this baseline (definitive or normative grammar)
// - see the ANTLR tool implementation for hints on how to use the super
// class
//
//superclass = AbstractA3Lexer;
}

```

```
tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }
```

```
// Include the copyright  
in this source and also the generated source  
//
```

```
@lexer::header {  
/*  
[The "BSD licence"]  
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```

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```
*/
```

```
package org.antlr.v4.parse;  
import org.antlr.v4.tool.*;  
}
```

```
@members {  
public static final int COMMENTS_CHANNEL = 2;  
  
public CommonTokenStream tokens; // track stream we push to; need for context info  
public boolean isLexerRule = false;  
  
public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }
```

```
/** scan backwards from current point in this.tokens list
```

```

* looking for the start of the rule or subrule.
* Return token or null if for
some reason we can't find the start.
*/
public Token getRuleOrSubruleStartToken() {
    if ( tokens==null ) return null;
    int i = tokens.index();
    int n = tokens.size();
    if ( i>=n ) i = n-1; // seems index == n as we lex
    while ( i>=0 && i<n ) {
        int ttype = tokens.get(i).getType();
        if ( ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF ) {
            return tokens.get(i);
        }
        i--;
    }
    return null;
}

// -----
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We also trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

// Record the start line
and offsets as if we need to report an
// unterminated comment, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = $line;
int offset = getCharPositionInLine();
}
: // Eat the first character only, then see if we have a comment
// or something silly.
//
'/' // Comment introducer

```

```

(
  // Single line comment, possibly with embedded src/line directives
  // in a similar style to the C pre-processor, allowing generated
  // code to refer the programmer back to the original source code
  // in case of error.
  //
  '/'
  (
    (' $ANTLR')=> ' $ANTLR' SRC
    | ~(NLCHARS)*
  )

  | // Multi-line comment, which may be a documentation comment
  // if it starts /** (note that we protect against accidentally
  // recognizing a comment /**/
as a documentation comment
  //
  /** (
    { input.LA(2) != '/' }?=> '*' { $type = DOC_COMMENT; }
  | { true }?=> // Required to cover all alts with predicates
  )

  // Should we support embedded multiline comments here?
  //
  (
    // Pick out end of multiline comment and exit the loop
    // if we find it.
    //
    { !(input.LA(1) == '*' && input.LA(2) == '/') }?

    // Anything else other than the non-greedy match of
    // the comment close sequence
    //
    .
  )*
  (
    // Look for the comment terminator, but if it is accidentally
    // unterminated, then we will hit EOF, which will trigger the
    // epsilon alt and hence we can issue an error message relative
    // to the
start of the unterminated multi-line comment
    //
    /**/

    | // Unterminated comment!
    //
    {

```

```

        // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
    }
)

|// There was nothing that made sense following the opening '/' and so
// we issue an error regarding the malformed comment
//
{
    // TODO: Insert error message relative to comment start
    //
}
)
{
    // We do not wish to pass the comments in to the parser. If you are
    // writing a formatter then you will want to preserve the comments off
    // channel, but could just skip and save token space if not.
    //
    $channel=COMMENTS_CHANNEL;
}
;

```

ARG\_OR\_CHARSET

```

options {k=1;}
: {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
| {!isLexerRule}?=> ARG_ACTION
{
    $type=ARG_ACTION;
    // Set the token text to our gathered string minus outer [ ]
    String t = $text;
    t = t.substring(1,t.length()-1);
    setText(t);
}
;

```

fragment

LEXER\_CHAR\_SET

```

: '['
( '\\ ~('\r'\n')
| ~('\r'\n'\\'|')
)*
']'
;

```

// -----

// Argument specs

//

// Certain argument lists, such as those specifying call parameters

```

// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
: '['
  (
    ARG_ACTION

    | ("")=>ACTION_STRING_LITERAL

    | ("\")=>ACTION_CHAR_LITERAL

    | ~('[\']')
  )*
  ']'
;

// -----
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals
// in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
: NESTED_ACTION
( '?' { $type = SEMPRED; }
( (WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
{
Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.setCharPositionInLine(state.tokenStartCharPositionInLine);
grammarError(ErrorType.V3_GATED_SEMPRED, t);
}
)?
)?
;

// -----

```

```

// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal
string representation in the target language. We assume
// that they are delimited by ' or " and so consume these
// in their own alts so as not to inadvertently match {}.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
@init {

// Record the start line and offsets as if we need to report an
// unterminated block, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = getLine();
int offset = getCharPositionInLine();
}

: // Action and other blocks start with opening {
//
'{'
(
// And now we can match one of a number of embedded
// elements within the action until we find a
// } that balances the opening {. If we do not find
// the balanced } then we will hit EOF and can issue
// an error message about the brace that we believe to
// be mismatched. This won't be foolproof but we will
// be able to at
least report an error against the
// opening brace that we feel is in error and this will
// guide the user to the correction as best we can.
//

// An embedded {} block
//
NESTED_ACTION

| // What appears to be a literal
//
ACTION_CHAR_LITERAL

```

```

|// We have assumed that the target language has C/Java
// type comments.
//
COMMENT

|// What appears to be a literal
//
ACTION_STRING_LITERAL

|// What appears to be an escape sequence
//
ACTION_ESC

|// Some other single character that is not
// handled above
//
~(\\|'|\"|/|'{'|'})

)*

(
// Correctly balanced closing brace
//
}'

|// Looks like have an imbalanced { } block, report
// with respect to the opening brace.
//
{
// TODO: Report imbalanced { }
System.out.println("Block starting at line
"+ startLine + " offset " + (offset+1) + " contains imbalanced { } or is missing a }");
}
)
;

// Keywords
// -----
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as
// labels for rules or in any other context where they would be ambiguous
// with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same { } delimiters.
//
OPTIONS : 'options' WSNLCHARS* '{' ;

```

```

TOKENS_SPEC : 'tokens' WSNLCHARS* '{' ;
CHANNELS    : 'channels' WSNLCHARS* '{' ;

IMPORT      : 'import'      ;
FRAGMENT    : 'fragment'    ;
LEXER       : 'lexer'       ;
PARSER      : 'parser'      ;
GRAMMAR     : 'grammar'     ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED   : 'protected'   ;
PUBLIC      : 'public'      ;
;
PRIVATE     : 'private'     ;
RETURNS     : 'returns'     ;
LOCALS      : 'locals'      ;
THROWS      : 'throws'      ;
CATCH       : 'catch'       ;
FINALLY     : 'finally'     ;
MODE        : 'mode'        ;

// -----
// Punctuation
//
// Character sequences used as separators, delimiters, operators, etc
//
COLON       : ':'
    {
        // scan backwards, looking for a RULE_REF or TOKEN_REF.
        // which would indicate the start of a rule definition.
        // If we see a LPAREN, then it's the start of the subrule.
        // this.tokens is the token string we are pushing into, so
        // just loop backwards looking for a rule definition. Then
        // we set isLexerRule.
        Token t = getRuleOrSubruleStartToken();
        if ( t!=null ) {
            if ( t.getType()==RULE_REF ) isLexerRule = false;

            else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
                // else must be subrule; don't alter context
        }
    }
;
COLONCOLON  : '::'          ;
COMMA       : ','          ;
SEMI        : ';'          ;
LPAREN      : '('          ;
RPAREN      : ')'          ;
RARROW      : '->'        ;

```

```

LT      : '<'      ;
GT      : '>'      ;
ASSIGN  : '='      ;
QUESTION : '?'      ;
SYNPRED : '=>'    ;
    {
        Token t = new CommonToken(input, state.type, state.channel,
            state.tokenStartCharIndex, getCharIndex()-1);
        t.setLine(state.tokenStartLine);
        t.setText(state.text);
        t.setCharPositionInLine(state.tokenStartCharPositionInLine);
        grammarError(ErrorType.V3_SYNPRED, t);
        $channel=HIDDEN;
    }
    ;
STAR    : '*'      ;
PLUS    : '+'      ;
PLUS_ASSIGN : '+='  ;
OR      : '|'      ;
DOLLAR  : '$'      ;
DOT     : '.'      ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE   : '..'     ;
AT      : '@'      ;
POUND   : '#'      ;
NOT     : '~'      ;
RBRACE  : '}'      ;

```

/\*\* Allow unicode rule/token names \*/

```

ID : a=NameStartChar NameChar*
    {
        if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
        else $type = RULE_REF;
    }
    ;

```

fragment

```

NameChar : NameStartChar
    | '0'..'9'
    | '_'
    | '\u00B7'
    | '\u0300'..\u036F'
    | '\u203F'..\u2040'
    ;

```

fragment

```

NameStartChar
    : 'A'..'Z' | 'a'..'z'

```

```

| '\u00C0'..\u00D6'
| '\u00D8'..\u00F6'
| '\u00F8'..\u02FF'
| '\u0370'..\u037D'
| '\u037F'..\u1FFF'
| '\u200C'..\u200D'
| '\u2070'..\u218F'
| '\u2C00'..\u2FEF'
| '\u3001'..\uD7FF'
| '\uF900'..\uFDCF'
| '\uFDF0'..\uFEFE'
| '\uFF00'..\uFFFD'
; // ignores | [\u10000-\uEFFFF] ;

```

```
// -----
```

```
// Literals embedded in actions
```

```
//
```

```
// Note that we have made the assumption that the language used within
```

```
// actions uses the fairly standard " and ' delimiters for literals and
```

```
// that within these literals, characters are escaped using the \ character.
```

```
// There are some languages which do not conform to this in all cases, such
```

```
// as by using /string/ and so on. We will have to deal with such cases if
```

```
// if they come up in targets.
```

```
//
```

```
// Within actions, or other structures that are not part of the ANTLR
```

```
// syntax, we may encounter literal characters. Within these, we do
```

```
// not want to inadvertently
```

```
match things like '}' and so we eat them
```

```
// specifically. While this rule is called CHAR it allows for the fact that
```

```
// some languages may use/allow ' as the string delimiter.
```

```
//
```

```
fragment
```

```
ACTION_CHAR_LITERAL
```

```
: \" ((\\)=>ACTION_ESC | ~\" )* \"
```

```
;
```

```
// Within actions, or other structures that are not part of the ANTLR
```

```
// syntax, we may encounter literal strings. Within these, we do
```

```
// not want to inadvertently match things like '}' and so we eat them
```

```
// specifically.
```

```
//
```

```
fragment
```

```
ACTION_STRING_LITERAL
```

```
: \"\" ((\\)=>ACTION_ESC | ~\"\")* \"\"
```

```
;
```

```
// Within literal strings and characters that are not part of the ANTLR
```

```

// syntax, we must allow for escaped character sequences so that we do not
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.
//
fragment
ACTION_ESC
: '\\' .
;

// -----
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.
//
INT : ('0'..'9')+
;

// -----
// Source
spec
//
// A fragment rule for picking up information about an originating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
{
    // TODO: Add target specific code to change the source file name and current line number
    //
}
;

// -----
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx, where x
// is a valid hexadecimal number (as per Java basically).
STRING_LITERAL
: '\" ( ( ESC_SEQ | ~(\"|'|\\"|'\\r'|'\\n') ) ) *
( '\"
| // Unterminated string literal
{
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex,

```

```

getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharacterPositionInLine(state.tokenStartCharPositionInLine);
    grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
}
)
;

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
: '\\'
(
    // The standard escaped character set such as tab, newline,
    // etc.
    //
    'b'|'t'|'n'|'f'|'r'|'\"'|'\''|'\\'

| // A Java style Unicode escape sequence
//
    UNICODE_ESC

| // An illegal escape sequence
//
    {
        Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-1, getCharIndex());
        t.setText(t.getText());
        t.setLine(input.getLine());

        t.setCharacterPositionInLine(input.getCharPositionInLine()-1);
        grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
    }
)
;

fragment
UNICODE_ESC

@init {

```

```

// Flag to tell us whether we have a valid number of
// hex digits in the escape sequence
//
int hCount = 0;
}
: 'u' // Leadin for unicode escape sequence

// We now require 4 hex digits. Note though
// that we accept any number of characters
// and issue an error if we do not get 4. We cannot
// use an infinite count such as + because this
// might consume too many, so we lay out the lexical
// options and issue an error at the invalid paths.
//
(
(
HEX_DIGIT { hCount++; }
(
HEX_DIGIT { hCount++; }
(
HEX_DIGIT { hCount++; }
(
// Four valid hex digits, we are good
//
HEX_DIGIT { hCount++; }

|// Three valid digits
)

|// Two valid digits
)

|// One valid digit
)
)
|// No valid hex digits at all
)

// Now check the digit count and issue an error if we need to
//
{
if (hCount != 4) {
Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-3-hCount, getCharIndex()-
1);
t.setText(t.getText());
t.setLine(input.getLine());
t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
}
}

```

```

    }
    }
;

// -----
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
: (
    ' '
    | '\t'
    | '\r'
    | '\n'
    | '\f'
)+
    {$channel=HIDDEN;}
;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
: '\n' | '\r'
;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
: ' ' | '\t' | '\f'
;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
: ' ' | '\t' | '\f' | '\n' | '\r'
;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a

```

```
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
```

```
UnicodeBOM
```

```
    : '\uFEFF' {skip();}
    ;
```

```
// -----
```

```
// Illegal Character
```

```
//
```

```
// This
```

```
is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the gramamr file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
```

```
//
```

```
ERRCHAR
```

```
    : .
    {
        Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
        t.setLine(state.tokenStartLine);
        t.setText(state.text);
        t.setCharPositionInLine(state.tokenStartCharPositionInLine);
        String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
        grammarError(ErrorType.SYNTAX_ERROR, t, msg);
        state.syntaxErrors++;
        skip();
    }
    ;
```

```
Found in path(s):
```

```
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.g
```

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```

```
/*
```

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\*/

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\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/templates/codegen/Cpp/Cpp.stg

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 \*/

```
tree grammar BlockSetTransformer;
options {
  language = Java;
  tokenVocab = ANTLRParser;
  ASTLabelType = GrammarAST;
  output = AST;
  filter = true;
}

@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import
  java.util.HashSet;
import java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;
}

@members {
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
  this(input, new RecognizerSharedState());
  this.g = g;
}
}

topdown
: ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
| setAlt
| ebnfBlockSet
| blockSet
;

setAlt
```

```

: {inContext("RULE BLOCK")}?
  ALT {currentAlt = $start;}
;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID))))))
ebnfBlockSet
@after {
  GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
;

ebnfSuffix
@after {$tree = (GrammarAST)adaptor.dupNode($start);}
: OPTIONAL
  | CLOSURE
  | POSITIVE_CLOSURE
;

blockSet
@init {
  boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
  GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: {inContext("RULE")}?
  // top-level: rule block and > 1 alt
  ^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) (^(ALT
elementOptions? setElement[inLexer]) )+
-> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
| {!inContext("RULE")}? // if not rule block and > 1 alt
  ^(BLOCK ^(ALT elementOptions? setElement[inLexer]) (^(ALT elementOptions? setElement[inLexer]) )+
-> ^(SET[$BLOCK.token, "SET"] setElement+)
;

setElement[boolean inLexer]
@after {
  GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: (^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
| a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
| {!inLexer}?=> ^(TOKEN_REF elementOptions)
| {!inLexer}?=> TOKEN_REF
| {inLexer}?=> ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  {CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1

```

```
&&  
  CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1 }?  
  )  
  ;
```

```
elementOptions  
: ^(ELEMENT_OPTIONS elementOption*)  
;
```

```
elementOption  
: ID  
| ^(ASSIGN id=ID v=ID)  
| ^(ASSIGN ID v=STRING_LITERAL)  
| ^(ASSIGN ID v=ACTION)  
| ^(ASSIGN ID v=INT)  
;
```

Found in path(s):

```
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-  
jar/org/antlr/v4/parse/BlockSetTransformer.g
```

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```

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 \*/

```
atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph ATN {
rankdir=LR;
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>
```

```
dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph <name> {
<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
<states; separator="\n">
<edges;
separator="\n">
}
>>
```

```
decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states:{s | s<s>}; separator=" "; ">}
>>
```

```
edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>
```

```
action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>
```

```
epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
label="&epsilon;"<if(loopback)>, style="dashed"<endif>];
>>
```

```
state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
label="
<! rest(transition) tests for decision states: these nodes have a non-empty
```

set of transitions after the first one. !>

```
<if(rest(transitions))>
  {
    <! Label on the left side of the record node. !>
    <label>
    |
    <! Named ports in order on right side of record node, no display text. !>
    {<transitions:{t|\<p<i0>>}; separator="|">}
  <else>
    <label>
  <endif>
  "
<if(rest(transitions))>
  , shape=record, fixedsize=false
<else>
  , shape=circle, fixedsize=true, width=.55
<endif>
  , peripheries=1];
%>
```

stopstate(name,label,actionIndex,useBox) ::= <<  
<name>[fontsize=11, label="<label><if(actionIndex)>,\naction:<actionIndex><endif>",  
<if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsize=false<else>shape=doublecircle, fixedsize=true,  
width=.6<endif>];  
>>

Found in path(s):

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/templates/dot/graphs.stg

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*/

```

```
/** Find left-recursive rules */
```

```
tree grammar LeftRecursiveRuleWalker;
```

```
options {
  tokenVocab=ANTLRParser;
  ASTLabelType=GrammarAST;
}

```

```
@header {
package org.antlr.v4.parse;
```

```
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

```

```
@members {
private String ruleName;
private int currentOuterAltNumber; // which outer alt of rule?
public
int numAlts; // how many alts for this rule total?

```

```
public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

```

```
@rulecatch { }
```

```
// TODO: can get parser errors for not matching pattern; make them go away
```

```
public
```

```

rec_rule returns [boolean isLeftRec]
@init
{
currentOuterAltNumber = 1;
}
: ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
ruleModifier?
// (ARG_ACTION)? shouldn't allow args, right?
^(RETURNS a=ARG_ACTION {setReturnValues($a);}))?
// (^(THROWS .+)? don't allow
^(LOCALS ARG_ACTION)? // TODO: copy these to gen'd code
^(OPTIONS .*)
| ^(AT ID ACTION) // TODO: copy
)*
ruleBlock { $isLeftRec = $ruleBlock.isLeftRec;}
exceptionGroup
)
;

exceptionGroup
: exceptionHandler* finallyClause?
;

exceptionHandler
: ^(CATCH ARG_ACTION ACTION)
;

finallyClause
: ^(FINALLY ACTION)
;

ruleModifier
: PUBLIC
| PRIVATE
| PROTECTED
;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
: ^( BLOCK
(
o=outerAlternative
{if ($o.isLeftRec) $isLeftRec = true;}
{currentOuterAltNumber++;}
)+
)
;

```

```

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
: (binary)=>      binary
                  {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| (prefix)=>      prefix
                  {prefixAlt((AltAST)$start, currentOuterAltNumber);}
| (suffix)=>      suffix
                  {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| nonLeftRecur    {otherAlt((AltAST)$start, currentOuterAltNumber);}
;

binary
: ^(
  ALT elementOptions? recurse element* recurse epsilonElement* )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

prefix
: ^( ALT elementOptions?
  element+
  recurse epsilonElement*
  )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

suffix
: ^( ALT elementOptions? recurse element+ )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

nonLeftRecur
: ^(ALT elementOptions? element+)
;

recurse
: ^(ASSIGN ID recurseNoLabel)
| ^(PLUS_ASSIGN ID recurseNoLabel)
| recurseNoLabel
;

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
: ^(ASSIGN ID s=token {$t = $s.t;})
| ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
| b=STRING_LITERAL    {$t = $b;}
| ^(b=STRING_LITERAL elementOptions) {$t = $b;}
| ^(c=TOKEN_REF elementOptions) {$t = $c;}

```

| c=TOKEN\_REF            {\$t = \$c;}

;

elementOptions

: ^(ELEMENT\_OPTIONS elementOption\*)

;

elementOption

: ID

| ^(ASSIGN ID ID)

| ^(ASSIGN ID STRING\_LITERAL)

| ^(ASSIGN ID ACTION)

| ^(ASSIGN ID INT)

;

element

: atom

| ^(NOT element)

| ^(RANGE atom atom)

| ^(ASSIGN ID element)

| ^(PLUS\_ASSIGN ID element)

| ^(SET setElement+)

| RULE\_REF

| ebnf

| epsilonElement

;

epsilonElement

: ACTION

| SEMPRED

| EPSILON

| ^(ACTION elementOptions)

| ^(SEMPRED elementOptions)

;

setElement

: ^(STRING\_LITERAL elementOptions)

| ^(TOKEN\_REF elementOptions)

| STRING\_LITERAL

| TOKEN\_REF

;

ebnf: block

| ^( OPTIONAL block )

| ^( CLOSURE block )

| ^( POSITIVE\_CLOSURE block )

;

block

```
: ^(BLOCK ACTION? alternative+)
;
```

alternative

```
: ^(ALT elementOptions? element+)
;
```

atom

```
: ^(RULE_REF ARG_ACTION? elementOptions?)
| ^(STRING_LITERAL elementOptions)
| STRING_LITERAL
| ^(TOKEN_REF elementOptions)
| TOKEN_REF
| ^(WILDCARD elementOptions)
| WILDCARD
| ^(DOT ID element)
;
```

Found in path(s):

\*

```
/opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g
```

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*/

```

```

/** ANTLR tool checks output templates are compatible with tool code generation.
* For now, a simple string match used on x.y of x.y.z scheme.
* Must match Tool.VERSION during load to templates.
*
* REQUIRED.
*/

```

```

pythonTypeInitMap ::= [
  "bool":"False",
  "int":"0",
  "float":"0.0",
  "str": "",
  default:"None" // anything other
  than a primitive type is an object
]

```

```

// args must be <object-model-object>, <fields-resulting-in-STs>

```

```

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from antlr4 import *
from io import StringIO

<namedActions.header>
<parser>

>>

```

```

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
    from .<file.parserName> import <file.parserName>
else:
    from <file.parserName> import <file.parserName>
<header>

```

```

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

    <file.listenerNames:{ lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def
exit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    pass

}; separator="\n">

>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
    from .<file.parserName> import <file.parserName>
else:
    from <file.parserName> import <file.parserName>
<header>

```

```

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

    <file.visitorNames:{ lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    return self.visitChildren(ctx)

}; separator="\n">

del <file.parserName>

>>

```

```

fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

```

```

Parser(parser, funcs, atn, sempredFuncs, superClass)

```

```

 ::= <<
 <Parser_(ctor="parser_ctor", ...)>
 >>

 Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
 <if(superClass)>
 from .<superClass> import <superClass>

 <endif>
 <atn>

 class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

     grammarFileName = "<parser.grammarFileName>"

     atn = ATNDeserializer().deserialize(serializedATN())

     decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

     sharedContextCache = PredictionContextCache()

     literalNames = [ <parser.literalNames:{t | <t>}; null="\\"<INVALID>\\"", separator=", ", wrap, anchor ]

     symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="\\"<INVALID>\\"", separator=", ", wrap, anchor ]

     <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>

     ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor ]

     EOF = <TokenLabelType().EOF

     <if(parser.tokens)>
     <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n",
 wrap, anchor>
     <endif>

     <parser:(ctor)()>

     <namedActions.members>

     <funcs; separator="\n">

 <if(sempredFuncs)>
     def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
         if self._predicates == None:
             self._predicates = dict()
 <parser.sempredFuncs.values:{f |
         self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n
 ">

```

```

    pred = self._predicates.get(ruleIndex, None)
    if pred is None:
        raise Exception("No predicate with index:" + str(ruleIndex))
    else:
        return pred(localctx, predIndex)

<sempredFuncs.values; separator="\n">
<endif>

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
    if self._actions is None:
        actions = dict()
    <recog.actionFuncs.values:{f|
        actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
    self._actions = actions
    action
    = self._actions.get(ruleIndex, None)
    if action is not None:
        action(localctx, actionIndex)
    else:
        raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
    if self._predicates is None:
        preds = dict()
    <recog.sempredFuncs.values:{f|
        preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
    self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>

>>

```

```

parser_ctor(p) ::= <<
def __init__(self, input:TokenStream):
    super().__init__(input)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates
= None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
<actions:{index|
<if(first(actions))>
    if actionIndex == <index>:
        <actions.(index)>
<elseif(rest(actions))>
    elif actionIndex == <index>:
        <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):
    <actions:{index|
<if(first(actions))>
    if predIndex == <index>:
        return <actions.(index)>
<elseif(rest(actions))>
    elif predIndex == <index>:
        return <actions.(index)>
<endif> }; separator="\n">
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

```

```

def <currentRule.name>(self<currentRule.args:{ a | , <a.name><if(a.type)>:<a.type><endif>}>):

    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{ a | , <a.name>}>)
    self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    <if(exceptions)>
    <exceptions; separator="\n">
    <else>
    except RecognitionException as re:
        localctx.exception = re
        self._errHandler.reportError(self, re)
        self._errHandler.recover(self, re)
    <endif>
    finally:
        <finallyAction>
        self.exitRule()
    return localctx

```

>>

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
    namedActions,finallyAction,postamble) ::=

```

<<

```

<ruleCtx>
<altLabelCtxs:{l
| <altLabelCtxs.(l)>}; separator="\n">

```

```

def <currentRule.name>(self, _p:int=0<if(currentRule.args)>, <args:{ a | , <a>}><endif>):
    _parentctx = self._ctx
    _parentState = self.state
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{ a | , <a.name>}>)
    _prevctx = localctx
    _startState = <currentRule.startState>
    self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    except RecognitionException as re:

```

```

    localctx.exception = re
    self._errHandler.reportError(self, re)
    self._errHandler.recover(self, re)
  finally:
    <finallyAction>
    self.unrollRecursionContexts(_parentctx)
  return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx
= <parser.name>.<currentOuterMostAltCodeBlock.altLabel; format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass}; separator="\nel">
else:
  <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass}; separator="\nel">
else:
  <error>

>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
    <alts; separator="\n">

<!else if ( !(<followExpr> ) ) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
    <alts; separator="\n">
    self.state = <choice.loopBackStateNumber>
    self._errHandler.sync(self)
    <iteration>

>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
    <alts; separator="\n">
    self.state = <choice.stateNumber> <! loopback/exit decision !>
    self._errHandler.sync(self)
    <iteration>
    if not (<loopExpr>):
        break

>>

```

```
// LL(*) stuff
```

```

AltBlock(choice,
preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i>:

```

```
<alt>
  pass
}; separator="\nел">
```

```
>>
```

```
OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nел">
```

```
>>
```

```
StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
    <iteration>
    <alts> <! should only be one !>
  self.state =
  <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
```

```
>>
```

```
PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{ alt |
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nел">
  else:
    <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
```

```
>>
```

```
Sync(s) ::= "sync(<s.expecting.name>)"
```

```
ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"
```

```
TestSetInline(s) ::= <<  
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,  
bits)><endif>}; separator=" or ">  
>>
```

```
// Java language spec
```

```
15.19 - shift operators mask operands rather than overflow to 0... need range test
```

```
testShiftInRange(shiftAmount) ::= <<  
((<shiftAmount>) & ~0x3f) == 0  
>>
```

```
// produces smaller bytecode only when bits.ttypes contains more than two items
```

```
bitsetBitfieldComparison(s, bits) ::= <%  
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<< <offsetShiftVar(s.varName,  
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype, bits.shift)>)); separator=" | ">)) != 0)  
>%
```

```
isZero ::= [  
"0":true,  
default:false  
]
```

```
offsetShiftVar(shiftAmount, offset) ::= <%  
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>  
>%
```

```
offsetShiftType(shiftAmount, offset) ::= <%  
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>  
>%
```

```
// produces more efficient bytecode when bits.ttypes contains at most two items
```

```
bitsetInlineComparison(s, bits) ::= <%  
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype>}; separator=" or ">  
>%
```

```
cases(ttypes) ::= <<  
if token in [<ttypes:{t | <parser.name>.<t>}; separator=", ">]:  
>>
```

```
InvokeRule(r, argExprsChunks) ::= <<  
self.state = <r.stateNumber>  
<if(r.labels)><r.labels:{l | <labelref(l)> =
```

```

}><endif>self.<r.name><(if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChu
nks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr><endif>:
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><else> <endif>self._errHandler.recoverInline(self)
else:
    self._errHandler.reportMatch(self)
    self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
    from antlr4.error.Errors import FailedPredicateException
    raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

```

```

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip()"
LexerMoreCommand() ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg, grammar) ::= "_type = <arg>"
LexerChannelCommand(arg, grammar) ::= "_channel = <arg>"
LexerModeCommand(arg, grammar) ::= "_mode = <arg>"
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>)"

ActionText(t)
  ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if (<ctx(t)>.<t.label> is
  None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(None if <ctx(r)>.<r.label> is None else
  self._input.getText((<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "self._input.getText((localctx.start, self._input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "localctx"

```

```

ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s,
rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t) ::= <<
def <t.name>(self):
    return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t) ::= <<
def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
def <t.name>(self, i:int=None):
    if i is None:
        return self.getTokens(<parser.name>.<t.name>)
    else:
        return self.getToken(<parser.name>.<t.name>,
i)
>>

ContextRuleGetterDecl(r) ::= <<
def <r.name>(self):
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r) ::= <<

```

```

def <r.name>(self, i:int=None):
    if i is None:
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
    else:
        return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers)
 ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):

    def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{ a | ,
<a.name><if(a.type)><a.type><endif>=None }>):
        super().__init__(parent, invokingState)
        self.parser = parser
        <attrs:{ a | <a>}; separator="\n">
        <struct.ctorAttrs:{ a | self.<a.name> = <a.name>}; separator="\n">

        <getters:{ g | <g>}; separator="\n\n">

    def getRuleIndex(self):
        return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
    def copyFrom(self, ctx:ParserRuleContext):
        super().copyFrom(ctx)
        <struct.attrs:{ a | self.<a.name> = ctx.<a.name>}; separator="\n">

<endif>
    <dispatchMethods; separator="\n">
    <extensionMembers; separator="\n">

```

>>

```
AltLabelStructDecl(struct,attrs, getters,dispatchMethods)
```

```
::= <<
```

```
class <struct.name><(currentRule.name; format="cap">Context):
```

```
    def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name;
format="cap">Context
```

```
        super().__init__(parser)
```

```
        <attrs:{ a | <a>}; separator="\n">
```

```
        self.copyFrom(ctx)
```

```
    <getters:{ g | <g>}; separator="\n">
```

```
    <dispatchMethods; separator="\n">
```

>>

```
ListenerDispatchMethod(method) ::= <<
```

```
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
```

```
    if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
```

```
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)
```

>>

```
VisitorDispatchMethod(method) ::= <<
```

```
def accept(self, visitor:ParseTreeVisitor):
```

```
    if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
```

```
        return visitor.visit<struct.derivedFromName; format="cap">(self)
```

```
    else:
```

```
        return visitor.visitChildren(self)
```

>>

```
AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"
```

```
/** If we don't know location of label def x, use this template */
```

```
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"
```

```
/** For any action chunk, what is correctly-typed context struct ptr? */
```

```
ctx(actionChunk) ::= "localctx"
```

```
// used for left-recursive rules
```

```
recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
```

```
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
```

```
recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"
```

```
recRuleAltStartAction(ruleName, ctxName, label) ::= <<
```

```

localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

```

```

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel>
format="cap">Context(self, <parser.name>.<ruleName>; format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

```

```

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

```

```

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
self.triggerExitRuleEvent()
_prevctx = localctx
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO

<namedActions.header>

<lexer>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

atn = ATNDeserializer().deserialize(serializedATN())

```

```

    decisionsToDFA = [
DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

    <rest(lexer.modes):{m| <m> = <i>}; separator="\n">

    <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>

    modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ]

    literalNames = [ "\<INVALID>",
        <lexer.literalNames:{t | <t>}; separator=", ", wrap, anchor> ]

    symbolicNames = [ "\<INVALID>",
        <lexer.symbolicNames:{t | <t>}; separator=", ", wrap, anchor> ]

    ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

    grammarFileName = "<lexer.grammarFileName>"

    def __init__(self, input=None):
        super().__init__(input)
        self.checkVersion("<lexerFile.ANTLRVersion>")
        self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
        self._actions = None
        self._predicates = None

    <namedActions.members>

    <dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model)
::= <<
<! only one segment, can be inlined !>

def serializedATN():
    with StringIO() as buf:
        buf.write("<model.serialized; wrap={}<\n>    buf.write(">")
        return buf.getvalue()

>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<

```

```
<javaTypeInitMap.(typeName)>
```

```
>>
```

```
codeFileExtension() ::= ".py"
```

```
Found in path(s):
```

```
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-  
jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
```

```
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
* [The "BSD license"]
```

```
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```

```
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```

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```

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*
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```

```
*/
```

```
javaTypeInitMap ::= [
```

```
  "int": "0",
```

```
  "long": "0",
```

```
  "float": "0.0f",
```

```
  "double": "0.0",
```

```
  "boolean": "false",
```

```
  "byte": "0",
```

```

"short": "0",
"char": "0",
default: "null" // anything other than a primitive type is an object
]

```

```

// args must be <object-model-object>, <fields-resulting-in-STs>

```

```

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName,
file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

<parser>
>>

```

```

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeListener;

```

```

/**
 * This interface defines a complete listener for a parse tree produced by
 * { @link <file.parserName> }.
 */
public interface <file.grammarName>Listener extends ParseTreeListener {
    <file.listenerNames: {lname |
/**
    <if(file.listenerLabelRuleNames.(lname))>
    * Enter a parse tree produced by the { @code <lname>}
    * labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)> }.
    <else>
    * Enter a parse tree produced by { @link <file.parserName>#<lname> }.
    <endif>
    * @param ctx the parse tree

```

```

*/
void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the { @code <lname>\}
* labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by { @link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
*/
void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);; separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>

import org.antlr.v4.runtime.ParserRuleContext;
import org.antlr.v4.runtime.tree.ErrorNode;
import org.antlr.v4.runtime.tree.TerminalNode;

/**
* This class provides an empty implementation of { @link <file.grammarName>Listener },
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
public class <file.grammarName>BaseListener implements <file.grammarName>Listener {
<file.listenerNames:{lname |
/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}
/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \} };
separator="\n">

/**

```

```

* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void enterEveryRule(ParserRuleContext ctx) { }
/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void exitEveryRule(ParserRuleContext ctx) { }
/**
* { @inheritDoc\}
*
* \<p>The default
implementation does nothing.\</p>
*/
@Override public void visitTerminal(TerminalNode node) { }
/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void visitErrorNode(ErrorNode node) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeVisitor;

/**
* This interface defines a complete generic visitor for a parse tree produced
* by { @link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use { @link Void} for
* operations with no return type.
*/
public interface <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {
<file.visitorNames:{ Iname |
/**
<if(file.visitorLabelRuleNames.(Iname))>
* Visit a parse tree produced by the { @code <Iname>}
* labeled alternative in { @link <file.parserName>#<file.visitorLabelRuleNames.(Iname)>}|.

```

```

<else>
  * Visit a parse tree produced by { @link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
* @return the visitor result
*/
T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
 * This class provides an empty implementation of { @link <file.grammarName>Visitor},
 * which can be extended to create a visitor which only needs to handle a subset
 * of the available methods.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void} for
 * operations with no return type.
 */
public class <file.grammarName>BaseVisitor<T> extends AbstractParseTreeVisitor<T> implements
<file.grammarName>Visitor<T> {
  <file.visitorNames:{ lname |
/**
 * { @inheritDoc\}
 *
 * \<p>The default
 * implementation returns the result of calling
 * { @link #visitChildren\} on { @code ctx\}.\</p>
 */
  @Override public T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { return
  visitChildren(ctx); \} }; separator="\n">
  }
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

```

```

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
public class <parser.name> extends <superClass; null="Parser"> {
static { RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION); }

protected static final DFA[] _decisionToDFA;
protected static final PredictionContextCache _sharedContextCache =
new PredictionContextCache();
<if(parser.tokens)>
public static final int
<parser.tokens:{k | <k>=<parser.tokens.(k)>}
separator=", ", wrap, anchor>
<endif>
public static final int
<parser.rules:{r | RULE_<r.name> = <r.index>}
separator=", ", wrap, anchor>
public static final String[] ruleNames = {
<parser.ruleNames:{r | "<r>"}
separator=", ", wrap, anchor>
};

<vocabulary(parser.literalNames, parser.symbolicNames)>

@Override
public String getGrammarFileName() { return "<parser.grammarFileName; format="java-escape">"; }

@Override
public String[] getRuleNames() { return ruleNames; }

@Override
public String getSerializedATN() { return _serializedATN; }

@Override
public ATN getATN() { return _ATN; }

<namedActions.members>
<parser:(ctor)>
<funcs; separator="\n">

<if(sempredFuncs)>
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
switch (ruleIndex) {
<parser.sempredFuncs.values:{f}
case <f.ruleIndex>:
return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
}
return true;
}
<sempredFuncs.values>

```

```

separator="\n">
<endif>

<atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static final String[] _LITERAL_NAMES = {
<literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
private static final String[] _SYMBOLIC_NAMES = {
<symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
public static final Vocabulary VOCABULARY = new VocabularyImpl(_LITERAL_NAMES,
_SYMBOLIC_NAMES);

/**
 * @deprecated Use {@link #VOCABULARY} instead.
 */
@Deprecated
public static final String[] tokenNames;
static {
tokenNames = new String[_SYMBOLIC_NAMES.length];
for (int i = 0; i < tokenNames.length; i++) {
tokenNames[i] = VOCABULARY.getLiteralName(i);
if (tokenNames[i] == null) {
tokenNames[i] = VOCABULARY.getSymbolicName(i);
}

if (tokenNames[i] == null) {
tokenNames[i] = "\<INVALID>";
}
}
}

@Override
@Deprecated
public String[] getTokenNames() {
return tokenNames;
}

@Override

public Vocabulary getVocabulary() {
return VOCABULARY;
}
>>

```

```

dumpActions(recog,
  argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
  switch (ruleIndex) {
    <recog.actionFuncs.values:{f}
case <f.ruleIndex>:
    <f.name>_action((<f.ctxType>)_localctx, actionIndex);
    break;}; separator="\n">
  }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
@Override
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
  switch (ruleIndex) {
    <recog.sempredFuncs.values:{f}
case <f.ruleIndex>:
    return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
  }
  return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
public <p.name>(TokenStream input) {
  super(input);
  _interp = new ParserATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
  switch (actionIndex) {
    <actions:{index|
case <index>:
    <actions.(index)>
    break;}; separator="\n">
  }
}
}

```

>>

/\* This generates a private method since the predIndex is generated, making an  
\* overriding implementation impossible to maintain.

\*/

```
RuleSempredFunction(r, actions) ::= <<
private boolean <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
  switch (predIndex) {
    <actions: {index|
  case <index>:
    return <actions.(index)>;}; separator="\n">
  }
  return true;
}
>>
```

```
RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
```

```
<ruleCtx>
```

```
<altLabelCtxs: {l | <altLabelCtxs.(l)>}; separator="\n">
```

```
<if(currentRule.modifiers)><currentRule.modifiers: {f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name><(<args> separator=",") throws RecognitionException {
  <currentRule.ctxType> _localctx = new
  <currentRule.ctxType>(_localctx, getState(<currentRule.args: {a | , <a.name>}>);
  enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">
  try {
    <if(currentRule.hasLookaheadBlock)>
      int _alt;
    <endif>
    <code>
    <postamble; separator="\n">
    <namedActions.after>
  }
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  catch (RecognitionException re) {
    _localctx.exception = re;
    _errHandler.reportError(this, re);
    _errHandler.recover(this, re);
  }
  <endif>
  finally {
    <finallyAction>
```

```

    exitRule();
  }
  return _localctx;
}
>>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
  namedActions,finallyAction,postamble) ::=
<<

```

```

<ruleCtx>

```

```

<altLabelCtxs:{l | <altLabelCtxs.l)>}; separator="\n">

```

```

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name><(args; separator=", "> throws RecognitionException {
  return <currentRule.name>(0<currentRule.args:{a
  | , <a.name>}>);
}

```

```

private <currentRule.ctxType> <currentRule.name>(int _p<args:{a | , <a>}>) throws RecognitionException {
  ParserRuleContext _parentctx = _ctx;
  int _parentState = getState();
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
  <a.name>}>);
  <currentRule.ctxType> _prevctx = _localctx;
  int _startState = <currentRule.startState>;
  enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
  <namedActions.init>
  <locals; separator="\n">
  try {
    <if(currentRule.hasLookaheadBlock)>
      int _alt;
    <endif>
    <code>
    <postamble; separator="\n">
    <namedActions.after>
  }
  catch (RecognitionException re) {
    _localctx.exception = re;
    _errHandler.reportError(this, re);
    _errHandler.recover(this, re);
  }
  finally {
    <finallyAction>
    unrollRecursionContexts(_parentctx);
  }
  return _localctx;
}

```

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::=

<<

<if(currentOuterMostAltCodeBlock.altLabel)>\_localctx = new <currentOuterMostAltCodeBlock.altLabel;  
format="cap">Context(\_localctx);<endif>

enterOuterAlt(\_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);

<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>

>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<

{

<locals; separator="\n">

<preamble; separator="\n">

<ops; separator="\n">

}

>>

LL1AltBlock(choice, preamble, alts, error) ::= <<

setState(<choice.stateNumber>);

\_errHandler.sync(this);

<if(choice.label)><labelref(choice.label)> = \_input.LT(1);<endif>

<preamble; separator="\n">

switch (\_input.LA(1)) {

<choice.altLook,alts:{look,alt| <cases(ttypes=look)>

<alt>

break;}; separator="\n">

default:

<error>

}

>>

LL1OptionalBlock(choice, alts, error) ::= <<

setState(<choice.stateNumber>);

\_errHandler.sync(this);

switch (\_input.LA(1)) {

<choice.altLook,alts:{look,alt| <cases(ttypes=look)>

<alt>

break;}; separator="\n">

default:

<error>

}

>>

LL1OptionalBlockSingleAlt(choice,

expr, alts, preamble, error, followExpr) ::= <<

setState(<choice.stateNumber>);

\_errHandler.sync(this);

```

<preamble; separator="\n">
if (<expr> ) {
  <alts; separator="\n">
}
<!else if ( !(<followExpr> ) <error!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
while (<loopExpr> ) {
  <alts; separator="\n">
  setState(<choice.loopBackStateNumber>);
  _errHandler.sync(this);
  <iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
<preamble; separator="\n">
do {
  <alts; separator="\n">
  setState(<choice.stateNumber>); <! loopback/exit decision !>
  _errHandler.sync(this);
  <iteration>
} while ( <loopExpr> );
>>

```

// LL(\*) stuff

```

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)>
= _input.LT(1);<endif>
<preamble; separator="\n">
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{ alt |
case <i>:
  <alt>
  break;}; separator="\n">
}
>>

```

```

OptionalBlock(choice, alts, error) ::= <<

```

```

setState(<choice.stateNumber>);
_errHandler.sync(this);
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER ) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
<iteration>
<alts> <! should only be one !>
}
setState(<choice.loopBackStateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
}
>>

```

```

PlusBlock(choice,
alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
switch (_alt) {
<alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
default:
<error>
}
setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER );
>>

```

```

Sync(s) ::= "sync(<s.expecting.name>);"

```

```

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

```

```

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount)
::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1L \<< <offsetShift(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case <t>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>);
<if(r.labels)><r.labels:{1 | <labelref(l)> =
}><endif><r.name><if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>
);
>>

MatchToken(m)
::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>match(<m.name>);
>>

```

```
MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"
```

```
MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"
```

```
CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>_input.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr> ) ) {
  <if(m.labels)><m.labels:{1 | <labelref(l)> = (Token)}><endif>_errHandler.recoverInline(this);
}
else {
  if ( _input.LA(1)==Token.EOF ) matchedEOF = true;
  _errHandler.reportMatch(this);
  consume();
}
>>
```

```
Wildcard(w) ::= <<
setState(<w.stateNumber>);
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>matchWildcard();
>>
```

```
// ACTION STUFF
```

```
Action(a, foo, chunks) ::= "<chunks>"
```

```
ArgAction(a, chunks) ::= "<chunks>"
```

```
SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>);
if
  (!<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
  <failChunks><elseif(p.msg)>, <p.msg><endif>);
>>
```

```
ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
  <catchAction>
}
>>
```

```
// lexer actions are not associated with model objects
```

```
LexerSkipCommand() ::= "skip()";
```

```
LexerMoreCommand() ::= "more()";
```

```
LexerPopModeCommand() ::= "popMode()";
```

```

LexerTypeCommand(arg, grammar) ::= "_type = <arg>";
LexerChannelCommand(arg, grammar) ::= "_channel = <arg>";
LexerModeCommand(arg, grammar) ::= "_mode = <arg>";
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>);

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValRef(a) ::= "_localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks)
 ::= "<ctx(s)>.<s.name> = <rhsChunks>";

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getText():null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getType():0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getLine():0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getCharPositionInLine():0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getChannel():0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getTokenIndex():0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText()):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.start):null)"
RulePropertyRef_stop(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_text(r)
 ::= "(<ctx(r)>.<r.label>!=null?_input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r) ::= "_localctx.stop"
ThisRulePropertyRef_text(r) ::= "_input.getText(_localctx.start, _input.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name> = <rhsChunks>";

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

```

```

TokenDecl(t) ::= "<TokenLabelType()> <t.name>"
TokenTypeDecl(t) ::= "int <t.name>,"
TokenListDecl(t) ::= "List<<Token> <t.name> = new ArrayList<<Token>()"
RuleContextDecl(r)
 ::= "<r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List<<rdecl.ctxName>> <rdecl.name> = new ArrayList<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t) ::=
  "public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t) ::=
  "public List<TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t) ::= <<
public TerminalNode <t.name>(int i) {
  return getToken(<parser.name>.<t.name>, i);
}
>>
ContextRuleGetterDecl(r) ::= <<
public <r.ctxName> <r.name>() {
  return getRuleContext(<r.ctxName>.class,0);
}
>>
ContextRuleListGetterDecl(r) ::= <<
public List<<r.ctxName>> <r.name>() {
  return getRuleContexts(<r.ctxName>.class);
}
>>
ContextRuleListIndexedGetterDecl(r) ::= <<
public <r.ctxName> <r.name>(int i) {
  return getRuleContext(<r.ctxName>.class,i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed
  by a suffix; e.g.,
  * r becomes rContext.
  */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName) ::= "<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = _input.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = _input.LA(1);"

```

```

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers)
 ::= <<
public static class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif> {
<attrs:{ a | public <a>;}; separator="\n">
<getters:{ g | <g>;}; separator="\n">
<if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) { super(parent, invokingState);
}<endif>
public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{ a | , <a>}>) {
super(parent, invokingState);
<struct.ctorAttrs:{ a
| this.<a.name> = <a.name>;}; separator="\n">
}
@Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)><! don't need copy unless we have subclasses !>
public <struct.name>() { }
public void copyFrom(<struct.name> ctx) {
super.copyFrom(ctx);
<struct.attrs:{ a | this.<a.name> = ctx.<a.name>;}; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
public static class <struct.name> extends <currentRule.name; format="cap">Context {
<attrs:{ a | public <a>;}; separator="\n">
<getters:{ g | <g>;}; separator="\n">
public <struct.name>(<currentRule.name; format="cap">Context ctx) { copyFrom(ctx); }
<dispatchMethods; separator="\n">
}
>>

```

```

ListenerDispatchMethod(method) ::= <<
@Override
public void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
if ( listener instanceof <parser.grammarName>Listener
)
((<parser.grammarName>Listener)listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

```

```

VisitorDispatchMethod(method) ::= <<

```

```

@Override
public <T> T accept(ParseTreeVisitor<? extends T> visitor) {
    if ( visitor instanceof <parser.grammarName>Visitor ) return ((<parser.grammarName>Visitor<? extends
T>)visitor).visit<struct.derivedFromName; format="cap">(this);
    else return visitor.visitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <d.name><if(d.initValue)> = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>(<x.ctx.name>)_localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "(<actionChunk.ctx.name>)_localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>";
recRuleSetStopToken()
    ::= "_ctx.stop = _input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
    _localctx = new <ctxName>Context(_parentctx, _parentState);
    <if(label)>
    <if(isListLabel)>
        _localctx.<label>.add(_prevctx);
    <else>
        _localctx.<label> = _prevctx;
    <endif>
    <endif>
    <if(label)>_localctx.<label> = _prevctx;<endif>
    pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
    _localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
    _parentState));
    <if(label)>
    <if(isListLabel)>
        ((<currentAltLabel; format="cap">Context)_localctx).<label>.add(_prevctx);
    <else>
        ((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
    <endif>
    <endif>
    pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

```

```

recRuleReplaceContext(ctxName) ::= <<
  _localctx = new <ctxName>Context(_localctx);
  _ctx = _localctx;
  _prevctx
  = _localctx;
>>

```

```

recRuleSetPrevCtx() ::= <<
  if ( _parseListeners!=null ) triggerExitRuleEvent();
  _prevctx = _localctx;
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
package <lexerFile.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.Lexer;
import org.antlr.v4.runtime.CharStream;
import org.antlr.v4.runtime.Token;
import org.antlr.v4.runtime.TokenStream;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.misc.*;

<lexer>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
public class <lexer.name> extends <superClass; null="Lexer"> {
  static { RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION); }

  protected static final DFA[] _decisionToDFA;
  protected static final PredictionContextCache
  _sharedContextCache =
  new PredictionContextCache();
  public static final int
  <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
  <if(lexer.channels)>
  public static final int
  <lexer.channels:{k | <k>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>;
  <endif>
  <rest(lexer.modes):{m | public static final int <m> = <i>;}; separator="\n">
  public static String[] modeNames = {

```

```

<lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
};

public static final String[] ruleNames = {
<lexer.ruleNames:{r| "<r>"}; separator=", ", wrap, anchor>
};

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

<namedActions.members>

public <lexer.name>(CharStream input) {
    super(input);
    _interp = new LexerATNSimulator(this, _ATN, _decisionToDFA, _sharedContextCache);
}

@Override
public String getGrammarFileName() { return "<lexer.grammarFileName>"; }

@Override
public String[] getRuleNames() { return ruleNames; }

@Override
public String
getSerializedATN() { return _serializedATN; }

@Override
public String[] getModeNames() { return modeNames; }

@Override
public ATN getATN() { return _ATN; }

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>

SerializedATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
private static final int _serializedATNSegments = <length(model.segments)>;
<model.segments:{segment|private static final String _serializedATNSegment<i0> =
"<segment; wrap={"+"<\n><\t>"}>"}; separator="\n">
public static final String _serializedATN = Utils.join(
new String[] {
<model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
},
""

```

```

);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
    "<model.serialized; wrap={"+<n><t>">";
<endif>
public static final ATN _ATN =
    new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
    _decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
    for
    (int i = 0; i < _ATN.getNumberOfDecisions(); i++) {
        _decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
    }
    <! org.antlr.v4.tool.DOTGenerator dot = new org.antlr.v4.tool.DOTGenerator(null);!>
    <! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
    <! System.out.println(dot.getDOT(_ATN.ruleToStartState[2], ruleNames, false));!>
}
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".java"

```

Found in path(s):

```

* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg

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*/

```

```

/** How to generate rules derived from left-recursive rules.
* These rely on recRuleAltPredicate(),
* recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
* templates in main language.stg
*/
group LeftRecursiveRules;

```

```

recRule(ruleName, argName, primaryAlts, opAlts, setResultAction,
        userRetvals, leftRecursiveRuleRefLabels) ::=
<<
<ruleName><if(userRetvals)>
returns [<userRetvals>]<endif>
: ( { } <primaryAlts:{ alt | <alt.altText> }; separator="\n | ">
)
(
<opAlts; separator="\n | ">
)*
;
>>

```

```

recRuleAlt(alt, precOption, opPrec, pred) ::= <<
{<pred>}?<<precOption>=<opPrec>> <alt.altText>
>>

```

Found in path(s):

```

* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
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\*/

```
tree grammar SourceGenTriggers;
```

```
options {  
    language = Java;  
    tokenVocab = ANTLRParser;  
    ASTLabelType = GrammarAST;  
}
```

```
@header {  
package org.antlr.v4.codegen;  
import org.antlr.v4.misc.Utils;  
import org.antlr.v4.codegen.model.*;  
import org.antlr.v4.codegen.model.decl.*;  
import org.antlr.v4.tool.*;  
import org.antlr.v4.tool.ast.*;  
import java.util.Collections;  
import  
    java.util.Map;  
import java.util.HashMap;  
}
```

```
@members {  
public OutputModelController controller;  
    public boolean hasLookaheadBlock;  
    public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {  
        this(input);  
        this.controller = controller;  
    }  
}
```

```
dummy : block[null, null] ;
```

```
block[GrammarAST label, GrammarAST ebfnRoot] returns [List<? extends SrcOp> omos]  
: ^( blk=BLOCK (^ (OPTIONS .+))?  
    {List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();  
      ( alternative {alts.add($alternative.altCodeBlock);} )+  
    )  
    {
```

```

if ( alts.size()==1 && ebnfRoot==null) return alts;
if ( ebnfRoot==null ) {
    Somos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
}
else {
    Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
    hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
    Somos = DefaultOutputModelFactory.list(choice);
}
}
;

```

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]

```

@init {
    boolean outerMost = inContext("RULE BLOCK");
}
@after {
    controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
: a=alt[outerMost] {$altCodeBlock=$a.altCodeBlock; $ops=$a.ops;}
;

```

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]

```

@init {
    // set alt if outer ALT only (the only ones with alt field set to Alternative object)
    AltAST altAST = (AltAST)retval.start;
    if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
: {
    List<SrcOp> elems = new ArrayList<SrcOp>();
    // TODO: shouldn't we pass $start to controller.alternative()?
    $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
    $altCodeBlock.ops = $ops = elems;
    controller.setCurrentBlock($altCodeBlock);
}
^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

| ^(ALT elementOptions?
EPSILON)
    {$altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}
;

```

element returns [List<? extends SrcOp> omos]

```

: labeledElement    {$omos = $labeledElement.omos;}
| atom[null,false] {$omos = $atom.omos;}
| subrule          {$omos = $subrule.omos;}
| ACTION          {$omos = controller.action((ActionAST)$ACTION);}
| SEMPRED         {$omos = controller.sempred((ActionAST)$SEMPRED);}

```

```

| ^(ACTION elementOptions) {$omos = controller.action((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {$omos = controller.sempred((ActionAST)$SEMPRED);}
;

```

```

labeledElement returns [List<? extends SrcOp> omos]
: ^(ASSIGN ID atom[$ID,false] ) {$omos = $atom.omos;}
| ^(PLUS_ASSIGN ID atom[$ID,false]) {$omos = $atom.omos;}
| ^(ASSIGN ID block[$ID,null] ) {$omos = $block.omos;}
| ^(PLUS_ASSIGN ID block[$ID,null]) {$omos = $block.omos;}
;

```

```

subrule returns [List<? extends SrcOp> omos]
: ^(OPTIONAL b=block[null,$OPTIONAL])
{
  $omos = $block.omos;
}
| ( ^(op=CLOSURE
b=block[null,null])
| ^(op=POSITIVE_CLOSURE b=block[null,null])
)
{
  List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
  SrcOp blk = $b.omos.get(0);
  CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
  alt.addOp(blk);
  alts.add(alt);
  SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
  hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
  $omos = DefaultOutputModelFactory.list(loop);
}
| block[null, null] {$omos = $block.omos;}
;

```

```

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}
;

```

```

/*
setElement
: STRING_LITERAL
| TOKEN_REF
| ^(RANGE STRING_LITERAL STRING_LITERAL)
;
*/

```

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...

// TODO: same for NOT

```

atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]

```

```

: ^(NOT
a=atom[$label, true]) {$omos = $a.omos;}
| range[label]    {$omos = $range.omos;}
| ^(DOT ID terminal[$label])
| ^(DOT ID ruleref[$label])
| ^(WILDCARD .)   {$omos = controller.wildcard($WILDCARD, $label);}
| WILDCARD       {$omos = controller.wildcard($WILDCARD, $label);}
| terminal[label] {$omos = $terminal.omos;}
| ruleref[label] {$omos = $ruleref.omos;}
| blockSet[$label, invert] {$omos = $blockSet.omos;}
;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
: ^(RULE_REF ARG_ACTION? elementOptions?) {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
;

range[GrammarAST label] returns [List<SrcOp> omos]
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
;

terminal[GrammarAST label] returns [List<SrcOp> omos]
: ^(STRING_LITERAL .) {$omos = controller.stringRef($STRING_LITERAL, $label);}
| STRING_LITERAL    {$omos = controller.stringRef($STRING_LITERAL, $label);}
| ^(TOKEN_REF ARG_ACTION .) {$omos =
controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
| ^(TOKEN_REF .)   {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
| TOKEN_REF        {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption+)
;

elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;

Found in path(s):
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
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```

```
lexer grammar ActionSplitter;
```

```
options { filter=true; }
```

```
@header {
package organtlr.v4.parse;
import organtlr.v4.tool.*;
import organtlr.v4.tool.ast.*;
}
```

```
@members {
ActionSplitterListener delegate;
```

```
public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
this(input, new RecognizerSharedState());
this.delegate = delegate;
}
```

```

/** force filtering
 (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
    List<Token> chunks = new ArrayList<Token>();
    Token t = nextToken();
    while ( t.getType()!=Token.EOF ) {
        chunks.add(t);
        t = nextToken();
    }
    return chunks;
}

private boolean isIDStartChar(int c) {
    return c == '_' || Character.isLetter(c);
}
}

// ignore comments right away

COMMENT
: /*' ( options {greedy=false;} : . )* */' {delegate.text($text);}
;

LINE_COMMENT
: //' ~(\n|\r)* \r? \n' {delegate.text($text);}
;

SET_NONLOCAL_ATTR
: '$' x=ID ':' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
    delegate.setNonLocalAttr($text, $x, $y, $expr);
}
;

NONLOCAL_ATTR
: '$' x=ID ':' y=ID {delegate.nonLocalAttr($text, $x, $y);}
;

QUALIFIED_ATTR
: '$' x=ID '!' y=ID {input.LA(1)!=''}? {delegate.qualifiedAttr($text, $x, $y);}
;

SET_ATTR
: '$' x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
    delegate.setAttr($text, $x, $expr);
}
;

```

```

ATTR
: '$
x=ID { delegate.attr($text, $x);}
;

// Anything else is just random text
TEXT
@init { StringBuilder buf = new StringBuilder();}
@after { delegate.text(buf.toString());}
: ( c=~('\| '$) {buf.append((char)$c);}
| '\|$' {buf.append('$);}
| '\| c=~('$) {buf.append('\|').append((char)$c);}
| {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$);}
)+
;

```

```

fragment
ID : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
;

```

/\*\* Don't allow an = as first char to prevent \$x == 3; kind of stuff. \*/

```

fragment
ATTR_VALUE_EXPR
: ~'=' (~';')*
;

```

```

fragment
WS : (' |\t|\n|\r')+
;

```

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*/

```

```

/** ANTLR tool checks output templates are compatible with tool code generation.
* For now, a simple string match used on x.y of x.y.z scheme.
* Must match Tool.VERSION during load to templates.
*
* REQUIRED.
*/

```

```

pythonTypeInitMap ::= [
  "bool":"False",
  "int":"0",
  "float":"0.0",
  "str": "",
  default:"None" // anything other
  than a primitive type is an object
]

```

```

// args must be <object-model-object>, <fields-resulting-in-STs>

```

```

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');
<if(file.genListener)>
var <file.grammarName>Listener = require('./<file.grammarName>Listener').<file.grammarName>Listener;
<endif>
<if(file.genVisitor)>
var <file.grammarName>Visitor = require('./<file.grammarName>Visitor').<file.grammarName>Visitor;
<endif>

<namedActions.header>

```

```

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');

// This class defines a complete listener for a parse tree produced by <file.parserName>.
function <file.grammarName>Listener() {
  antlr4.tree.ParseTreeListener.call(this);
  return this;
}

<file.grammarName>Listener.prototype = Object.create(antlr4.tree.ParseTreeListener.prototype);
<file.grammarName>Listener.prototype.constructor
= <file.grammarName>Listener;

<file.listenerNames:{lname |
// Enter a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Listener.prototype.enter<lname; format="cap"> = function(ctx) {
\};

// Exit a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Listener.prototype.exit<lname; format="cap"> = function(ctx) {
\};

}; separator="\n">

exports.<file.grammarName>Listener = <file.grammarName>Listener;
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');

// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

function <file.grammarName>Visitor() {
  antlr4.tree.ParseTreeVisitor.call(this);
  return this;
}

<file.grammarName>Visitor.prototype = Object.create(antlr4.tree.ParseTreeVisitor.prototype);
<file.grammarName>Visitor.prototype.constructor = <file.grammarName>Visitor;

<file.visitorNames:{lname

```

```

|
// Visit a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Visitor.prototype.visit<lname; format="cap"> = function(ctx) {
  return this.visitChildren(ctx);
};

}; separator="\n">

exports.<file.grammarName>Visitor = <file.grammarName>Visitor;
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
var <superClass> = require('./<superClass>').<superClass>;
<endif>

var grammarFileName = "<parser.grammarFileName; format="java-escape">";

<atn>

var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index); });

var sharedContextCache = new antlr4.PredictionContextCache();

var literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator=", ", wrap,
  anchor> ];

var symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];

var ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

function <parser.name> (input) {
  <superClass; null="antlr4.Parser">.call(this, input);
  this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
  this.ruleNames = ruleNames;
  this.literalNames = literalNames;
  this.symbolicNames = symbolicNames;
  <namedActions.members>
  return this;
}

```

```

<parser.name>.prototype = Object.create(<superClass; null="antlr4.Parser">.prototype);
<parser.name>.prototype.constructor = <parser.name>;

Object.defineProperty(<parser.name>.prototype, "atn", {
  get : function() {
    return atn;
  }
});

<parser.name>.EOF = antlr4.Token.EOF;
<if(parser.tokens)>
<parser.tokens:{k | <parser.name>.<k> = <parser.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<parser.rules:{r | <parser.name>.RULE_<r.name> = <r.index>;};
separator="\n", wrap, anchor>

<funcs; separator="\n">

<if( sempredFuncs)>
<parser.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
  switch(ruleIndex) {
    <parser.sempredFuncs.values:{f | case <f.ruleIndex>:
      return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
    default:
      throw "No predicate with index:" + ruleIndex;
  }
};

<sempredFuncs.values; separator="\n">
<endif>

exports.<parser.name> = <parser.name>;

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
<lexer.name>.prototype.action = function(localctx, ruleIndex, actionIndex) {
  switch (ruleIndex) {
    <recog.actionFuncs.values:{f|
  case <f.ruleIndex>:
    this.<f.name>_action(localctx, actionIndex);
    break;}; separator="\n">
    default:
      throw "No registered action for:" + ruleIndex;
  }
}

```

```

};

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
<lexer.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
  switch (ruleIndex) {
    <recog.sempredFuncs.values: {f}
  case <f.ruleIndex>:
    return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
    default:
      throw "No registered predicate for:" + ruleIndex;
  }
};

<sempredFuncs.values; separator="\n">
<endif>
>>

/* This generates a private method since the actionIndex is generated, making an
 * overriding implementation impossible to maintain.
 */
RuleActionFunction(r, actions) ::= <<

<lexer.name>.prototype.<r.name>_action = function(localctx , actionIndex) {
  switch (actionIndex) {
    <actions: {index|
  case <index>:
    <actions.(index)>
    break;}; separator="\n">
    default:
      throw "No registered action for:" + actionIndex;
  }
};
>>

/* This generates a private method since the predIndex is generated, making an
 * overriding implementation impossible to maintain.
 */
RuleSempredFunction(r, actions) ::= <<
<if (r.factory.g.lexer)><lexer.name><else><parser.name><endif>.prototype.<r.name>_sempred = function(localctx,
predIndex) {
  switch(predIndex) {
    <actions: {index|
  case <index>:
    return <actions.(index)>;}; separator="\n">
    default:

```

```

    throw "No predicate with index:" + predIndex;
  }
};

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<! Define fields of this parser to export the context classes !>
<parser.name>.<currentRule.ctxType> = <currentRule.ctxType>;

<parser.name>.prototype.<currentRule.name> = function(<currentRule.args:{a | <a.name>}; separator=", ">) {

    var localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{a | <a.name>}>);
    this.enterRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
    <namedActions.init>
    <locals; separator="\n">
    try {
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    <if(exceptions)>
    <exceptions; separator="\n">
    <else>
    } catch (re)
    {
        if(re instanceof antlr4.error.RecognitionException) {
            localctx.exception = re;
            this._errHandler.reportError(this, re);
            this._errHandler.recover(this, re);
        } else {
            throw re;
        }
    }<endif> finally {
        <finallyAction>
        this.exitRule();
    }
    return localctx;
};

>>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,

```

```

namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<parser.name>.prototype.<currentRule.name> = function(_p<if(currentRule.args)>, <args:{a | , <a}>><endif>) {
  if(_p===undefined) {
    _p = 0;
  }
  var _parentctx = this._ctx;
  var _parentState = this.state;
  var localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{a | , <a.name}>>);
  var _prevctx = localctx;
  var _startState = <currentRule.startState>;
  this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>,
  _p);
  <namedActions.init>
  <locals; separator="\n">
  try {
    <code>
    <postamble; separator="\n">
    <namedActions.after>
  } catch( error) {
    if(error instanceof antlr4.error.RecognitionException) {
      localctx.exception = error;
      this._errHandler.reportError(this, error);
      this._errHandler.recover(this, error);
    } else {
      throw error;
    }
  } finally {
    <finallyAction>
    this.unrollRecursionContexts(_parentctx)
  }
  return localctx;
};
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(this, localctx);<endif>
this.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<

```

```

<locals;
  separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
<preamble; separator="\n">
switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
default:
  <error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
switch (this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
default:
  <error>
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
if(<expr>) {
  <alts; separator="\n">
}
<!else if ( !(<followExpr> ) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble,
  iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
while(<loopExpr>) {

```

```

    <alts; separator="\n">
    this.state = <choice.loopBackStateNumber>;
    this._errHandler.sync(this);
    <iteration>
  }
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
<preamble; separator="\n">
do {
  <alts; separator="\n">
  this.state = <choice.stateNumber>; <! loopback/exit decision !>
  this._errHandler.sync(this);
  <iteration>
} while(<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
switch(la_) {
<alts:{ alt |
case <i>:
  <alt>
  break;
}; separator="\n">
}
>>

OptionalBlock(choice,
alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
<alts:{ alt |
if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
  <alt>
}; separator="\n} else ">
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx)
while(_alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
  if(_alt===1<if(!choice.ast.greedy)>+1<endif>) {
    <iteration>
    <alts> <! should only be one !>
  }
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
  _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
}

```

>>

```

PlusBlock(choice, alts, error) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
var
  _alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
  switch (_alt) {
    <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  break;}; separator="\n">
  default:
    <error>
  }
  this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
  this._errHandler.sync(this);
  _alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );

```

```

Sync(s) ::= "sync(<s.expecting.name>)"

```

```

ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"

```

```

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

```

```

// Javascript language spec - shift operators are 32 bits long max

```

```

testShiftInRange(shiftAmount) ::= <<

```

```

((<shiftAmount>) & ~0x1f) == 0

```

```

>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName,
bits.shift)>}> && ((1 \<< <offsetShiftVar(s.varName, bits.shift)>) & (<bits.ttypes:{ ttype | (1 \<<
<offsetShiftType(ttype, bits.shift)>}); separator=" | ">)) !== 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ ttype | <s.varName>===<parser.name>.<ttype>} ; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{ t | case <parser.name>.<t>: }; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
this.state = <r.stateNumber>;
<if(r.labels)><r.labels:{1 | <labelref(l)> =
}><endif>this.<r.name><(if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChu
nks>);
>>

MatchToken(m)
::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>this.match(<parser.name>.<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

```

```

CommonSetStuff(m, expr, capture, invert) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>this._input.LT(1);<endif>
<capture>
<if(invert)>if(<m.varName>|<=0 || <expr>)<else>if(!(<expr>))<endif> {
  <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>this._errHandler.recoverInline(this);
}
else {
  this._errHandler.reportMatch(this);
  this.consume();
}
>>

```

```

Wildcard(w) ::= <<
this.state = <w.stateNumber>;
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>matchWildcard();
>>

```

// ACTION STUFF

```
Action(a, foo, chunks) ::= "<chunks>"
```

```
ArgAction(a, chunks) ::= "<chunks>"
```

```

SemPred(p, chunks, failChunks) ::= <<
this.state
= <p.stateNumber>;
if (!( <chunks>)) {
  throw new antlr4.error.FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
}
>>

```

```

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
  <catchAction>
}
>>

```

// lexer actions are not associated with model objects

```

LexerSkipCommand() ::= "this.skip()"
LexerMoreCommand() ::= "this.more()"
LexerPopModeCommand() ::= "this.popMode()"
LexerTypeCommand(arg, grammar) ::= "this._type = <arg>"
LexerChannelCommand(arg, grammar) ::= "this._channel = <arg>"
LexerModeCommand(arg, grammar) ::= "this._mode = <arg>"
LexerPushModeCommand(arg, grammar) ::= "this.pushMode(<arg>)"

```

```

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t)
  ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>===null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> === null ? 0 : parseInt(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>===null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)
  ::= "(<ctx(r)>.<r.label>===null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(<ctx(r)>.<r.label>===null ? null : this._input.getText(new
antlr4.Interval(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.push(<labelref(a.label)>);"

TokenDecl(t) ::= "this.<t.name> = null; // <TokenLabelType()>"
TokenTypeDecl(t) ::= "var <t.name>
= 0; // <TokenLabelType()> type"
TokenListDecl(t) ::= "this.<t.name> = []; // of <TokenLabelType()>s"

```

```
RuleContextDecl(r) ::= "this.<r.name> = null; // <r.ctxName>"
RuleContextListDecl(rdecl) ::= "this.<rdecl.name> = []; // of <rdecl.ctxName>s"
```

```
ContextTokenGetterDecl(t) ::= <<
<t.name> = function() {
  return this.getToken(<parser.name>.<t.name>, 0);
};
>>
```

```
// should never be called
ContextTokenListGetterDecl(t) ::= <<
def <t.name>_list(self):
  return self.getTokens(<parser.name>.<t.name>)
>>
```

```
ContextTokenListIndexedGetterDecl(t) ::= <<
<t.name> = function(i) {
  if(i===undefined) {
    i = null;
  }
  if(i===null) {
    return this.getTokens(<parser.name>.<t.name>);
  } else {
    return this.getToken(<parser.name>.<t.name>, i);
  }
};
>>
```

```
ContextRuleGetterDecl(r) ::= <<
<r.name> = function() {
  return this.getTypedRuleContext(<r.ctxName>,0);
};
>>
```

```
// should never be called
ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
  return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
>>
```

```
ContextRuleListIndexedGetterDecl(r)
  ::= <<
<r.name> = function(i) {
  if(i===undefined) {
    i = null;
  }
}
```

```

if(i===null) {
    return this.getTypedRuleContexts(<r.ctxName>);
} else {
    return this.getTypedRuleContext(<r.ctxName>,i);
}
};
>>

```

```

LexerRuleContext() ::= "RuleContext"

```

```

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */

```

```

RuleContextNameSuffix() ::= "Context"

```

```

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"

```

```

ImplicitRuleLabel(ruleName) ::= "_<ruleName>"

```

```

ImplicitSetLabel(id) ::= "_tset<id>"

```

```

ListLabelName(label) ::= "<label>"

```

```

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"

```

```

CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

```

```

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<

```

```

function <struct.name>(parser, parent, invokingState<struct.ctorAttrs:{a | , <a.name>}>) {

```

```

    if(parent===undefined)

```

```

    {

```

```

        parent = null;

```

```

    }

```

```

    if(invokingState===undefined || invokingState===null) {

```

```

        invokingState = -1;

```

```

    }

```

```

    <if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.call(this, parent,
invokingState);

```

```

    this.parser = parser;

```

```

    this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;

```

```

    <attrs:{a | <a>}; separator="\n">

```

```

    <struct.ctorAttrs:{a | this.<a.name> = <a.name> || null}; separator="\n">

```

```

    return this;

```

```

}

```

```

<struct.name>.prototype =

```

```

Object.create(<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.prototype);

```

```

<struct.name>.prototype.constructor = <struct.name>;

```

```

<getters:{g | <struct.name>.prototype.<g>}; separator="\n\n">

```

```

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>

```

```

<struct.name>.prototype.copyFrom = function(ctx) {
<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.prototype.copyFrom.call(this,
ctx);
  <struct.attrs:{a | this.<a.name> = ctx.<a.name>;};
  separator="\n">
};
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">

>>

```

```

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
function <struct.name>(parser, ctx) {
  <currentRule.name; format="cap">Context.call(this, parser);
  <attrs:{a | <a>;}; separator="\n">
  <currentRule.name; format="cap">Context.prototype.copyFrom.call(this, ctx);
  return this;
}

```

```

<struct.name>.prototype = Object.create(<currentRule.name; format="cap">Context.prototype);
<struct.name>.prototype.constructor = <struct.name>;

```

```

<! Define fields of this parser to export this struct/context class !>
<parser.name>.<struct.name> = <struct.name>;

```

```

<getters:{g | <struct.name>.prototype.<g>;}; separator="\n\n">
<dispatchMethods; separator="\n">

```

```

>>

```

```

ListenerDispatchMethod(method) ::= <<
<struct.name>.prototype.<if(method.isEnter)>enter<else>exit<endif>Rule = function(listener) {
  if(listener instanceof <parser.grammarName>Listener ) {
    listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName>;
    format="cap">(this);
  }
};

```

```

>>

```

```

VisitorDispatchMethod(method) ::= <<
<struct.name>.prototype.accept = function(visitor) {
  if ( visitor instanceof <parser.grammarName>Visitor ) {
    return visitor.visit<struct.derivedFromName; format="cap">(this);
  } else {
    return visitor.visitChildren(this);
  }
}

```

```

};

>>

AttributeDecl(d) ::= "this.<d.name> = <if(d.initValue)><d.initValue><else>null<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "this.precpred(this._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
recRuleSetStopToken() ::= "this._ctx.stop = this._input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName,
    label) ::= <<
localctx = new <ctxName>Context(this, _parentctx, _parentState);
<if(label)>localctx.<label> = _prevctx;<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = new <currentAltLabel; format="cap">Context(this, new <ruleName; format="cap">Context(this,
    _parentctx, _parentState));
<if(label)>
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label> = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = new <ctxName>Context(this, localctx);
this._ctx = localctx;
_prevctx = localctx;
>>

recRuleSetPrevCtx() ::= <<
if(this._parseListeners!=null) {
    this.triggerExitRuleEvent();
}
_prevctx = localctx;

```

>>

```
LexerFile(lexerFile, lexer, namedActions) ::= <<  
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>  
var  
  antlr4 = require('antlr4/index');
```

```
<namedActions.header>
```

```
<lexer>
```

>>

```
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
```

```
<atn>
```

```
var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);
```

```
var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index); });
```

```
function <lexer.name>(input) {  
  <if(superClass)><superClass><else>antlr4.Lexer<endif>.call(this, input);  
  this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new  
  antlr4.PredictionContextCache());  
  return this;  
}
```

```
<lexer.name>.prototype = Object.create(<if(superClass)><superClass><else>antlr4.Lexer<endif>.prototype);  
<lexer.name>.prototype.constructor = <lexer.name>;
```

```
<lexer.name>.EOF = antlr4.Token.EOF;  
<lexer.tokens>:{k | <lexer.name>.<k> = <lexer.tokens.(k)>;}; separator="\n", wrap, anchor>
```

```
<rest(lexer.modes):{m | <lexer.name>.<m> = <i>;}; separator="\n">
```

```
<lexer.name>.prototype.modeNames = [ <lexer.modes:{m | "<m>" }; separator=", ",  
wrap, anchor ];
```

```
<lexer.name>.prototype.literalNames = [ <lexer.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor ];
```

```
<lexer.name>.prototype.symbolicNames = [ <lexer.symbolicNames:{t | <t>}; null="null", separator=", ", wrap,  
anchor ];
```

```
<lexer.name>.prototype.ruleNames = [ <lexer.ruleNames:{r | "<r>" }; separator=", ", wrap, anchor ];
```

```
<lexer.name>.prototype.grammarFileName = "<lexer.grammarFileName>";
```

```

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

exports.<lexer.name> = <lexer.name>;

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

var serializedATN = ["<model.serialized; wrap={", <n> " }>"].join("");

>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".js"

```

Found in path(s):

```

* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg

```

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\*/

/\*

This file contains the actual layout of the messages emitted by ANTLR.

This file contains the default format ANTLR uses.

\*/

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "<id> <text>"

report(location, message, type) ::= "<type><message.id>: <location> <message.text>"

wantsSingleLineMessage() ::= "false"

Found in path(s):

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg

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\*/

/\*

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The text itself is coming out of the languages/\*stg files, according to the chosen locale.

This file contains the format that mimicks GCC output.

\*/

location(file, line, column) ::= "<file>:<line>:"

message(id, text) ::= "<text> (<id>)"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg

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*/

```

```

/** templates used to generate make-compatible dependencies */

```

```

/** Generate "f : x, y, z" dependencies for input
* dependencies and generated files. in and out
* are File objects. For example, you can say
* <f.canonicalPath>
*/
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>}>;
separator="\n">
>>

```

Found in path(s):

```

* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/tool/templates/depend.stg
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```

```

/** ANTLR tool checks output templates are compatible with tool code generation.
* For now, a simple string match used on x.y of x.y.z scheme.
* Must match Tool.VERSION during load to templates.
*
* REQUIRED.
*/

```

```

pythonTypeInitMap ::= [
  "bool":"False",
  "int":"0",
  "float":"0.0",
  "str": "",
  default:"None" // anything other
  than a primitive type is an object
]

```

```

// args must be <object-model-object>, <fields-resulting-in-STs>

```

```

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO

<namedActions.header>
<parser>

>>

```

```

ListenerFile(file, header, namedActions) ::= <<

```

```

<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

    <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx):
    pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx):
    pass

}; separator="\n">

>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

    <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx):
    return self.visitChildren(ctx)

}; separator="\n">

>>

```

```

fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

```

```

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

```

```

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
from .<superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

    grammarFileName = "<parser.grammarFileName>"

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState)
]

    sharedContextCache = PredictionContextCache()

    literalNames = [ <parser.literalNames:{t | u<t>}; null="u\"<INVALID>\"", separator=", ", wrap, anchor ]

    symbolicNames = [ <parser.symbolicNames:{t | u<t>}; null="u\"<INVALID>\"", separator=", ", wrap, anchor ]

    <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>

    ruleNames = [ <parser.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor ]

    EOF = <TokenLabelType().EOF

    <if(parser.tokens)>
    <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
    <endif>

    <parser:(ctor)>

    <namedActions.members>

    <funcs; separator="\n">

    <if(sempredFuncs)>
    def sempred(self, localctx, ruleIndex, predIndex):
        if self._predicates == None:
            self._predicates = dict()
    <parser.sempredFuncs.values:{f |
        self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n    ">
        pred = self._predicates.get(ruleIndex,
None)
        if pred is None:

```

```

        raise Exception("No predicate with index:" + str(ruleIndex))
    else:
        return pred(localctx, predIndex)

<sempredFuncs.values; separator="\n">
<endif>

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx, ruleIndex, actionIndex):
    if self._actions is None:
        actions = dict()
    <recog.actionFuncs.values:{f]
        actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
        self._actions = actions
    action = self._actions.get(ruleIndex, None)
    if action is not None:
        action(localctx, actionIndex)
    else:
        raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
    if self._predicates is None:
        preds = dict()
    <recog.sempredFuncs.values:{f]
        preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
        self._predicates =
    preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>

>>

parser_ctor(p) ::= <<
def __init__(self, input):

```

```

super(<parser.name>, self).__init__(input)
self.checkVersion("<file.ANTLRVersion>")
self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx , actionIndex):
<actions:{index|
<if(first(actions))>
  if actionIndex == <index>:
    <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
    <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method
since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx, predIndex):
  <actions:{index|
<if(first(actions))>
  if predIndex == <index>:
    return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
    return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self<currentRule.args:{a | , <a.name>}>):

```

```

localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>>)
self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
<namedActions.init>
<locals; separator="\n">
try:
  <code>
  <postamble; separator="\n">
  <namedActions.after>
<if(exceptions)>
<exceptions; separator="\n">
<else>
except RecognitionException as re:
  localctx.exception = re
  self._errHandler.reportError(self, re)
  self._errHandler.recover(self, re)
<endif>
finally:
  <finallyAction>
  self.exitRule()
return localctx

>>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::=
<<

```

```

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>} ; separator="\n">

def <currentRule.name>(self, _p=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>>)
  _prevctx = localctx
  _startState = <currentRule.startState>
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
  <namedActions.init>
  <locals; separator="\n">
  try:
    <code>
    <postamble; separator="\n">
    <namedActions.after>
  except RecognitionException as re:
    localctx.exception = re
    self._errHandler.reportError(self, re)
    self._errHandler.recover(self, re)

```

```

finally:
    <finallyAction>
    self.unrollRecursionContexts(_parentctx)
return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)>
= _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
    pass}; separator="\nel">
else:
    <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
    pass}; separator="\nel">
else:
    <error>
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>

```

```

self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
    <alts; separator="\n">

<!else if ( !(<followExpr> ) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
    <alts; separator="\n">
    self.state = <choice.loopBackStateNumber>
    self._errHandler.sync(self)
    <iteration>

>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
    <alts; separator="\n">
    self.state = <choice.stateNumber> <! loopback/exit decision !>
    self._errHandler.sync(self)
    <iteration>
    if not (<loopExpr>):
        break

>>

```

```
// LL(*) stuff
```

```

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i>:
    <alt>
    pass
}; separator="\n">

```

>>

```
OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ ==
  <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
```

>>

```
StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
    <iteration>
    <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
```

>>

```
PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{ alt |
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
    <error>
  self.state = <choice.loopBackStateNumber>
  <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
```

>>

```
Sync(s) ::= "sync(<s.expecting.name>)"
```

```

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes))>><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype, bits.shift)>)); separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount,
offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype>}; separator=" or ">
%>

cases(ttypes) ::= <<
if token in [<ttypes:{t | <parser.name>.<t>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{1 | <labelref(l)> =
}><endif>self.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChu
nks>)
>>

```

```

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m,
expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><else> <endif>self._errHandler.recoverInline(self)
else:
    self._errHandler.reportMatch(self)
    self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
    from antlr4.error.Errors import FailedPredicateException
    raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction)
::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

```

```
// lexer actions are not associated with model objects
```

```
LexerSkipCommand() ::= "skip()"
```

```
LexerMoreCommand() ::= "more()"
```

```
LexerPopModeCommand() ::= "popMode()"
```

```
LexerTypeCommand(arg, grammar) ::= "_type = <arg>"
```

```
LexerChannelCommand(arg, grammar) ::= "_channel = <arg>"
```

```
LexerModeCommand(arg, grammar) ::= "_mode = <arg>"
```

```
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>)"
```

```
ActionText(t) ::= "<t.text>"
```

```
ActionTemplate(t) ::= "<t.st>"
```

```
ArgRef(a) ::= "localctx.<a.name>"
```

```
LocalRef(a) ::= "localctx.<a.name>"
```

```
RetValRef(a) ::= "localctx.<a.name>"
```

```
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
```

```
/** How to translate $tokenLabel */
```

```
TokenRef(t) ::= "<ctx(t)>.<t.name>"
```

```
LabelRef(t) ::= "<ctx(t)>.<t.name>"
```

```
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
```

```
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"
```

```
TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
```

```
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"
```

```
TokenPropertyRef_text(t)
```

```
::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
```

```
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
```

```
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
```

```
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
```

```
TokenPropertyRef_channel(t) ::= "(0 if (<ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
```

```
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
```

```
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"
```

```
RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
```

```
RulePropertyRef_stop(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
```

```
RulePropertyRef_text(r) ::= "(None if <ctx(r)>.<r.label> is None else
```

```
self._input.getText((<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
```

```
RulePropertyRef_ctx(r)
```

```
::= "<ctx(r)>.<r.label>"
```

```
RulePropertyRef_parser(r) ::= "self"
```

```
ThisRulePropertyRef_start(r) ::= "localctx.start"
```

```
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
```

```
ThisRulePropertyRef_text(r) ::= "self._input.getText((localctx.start, self._input.LT(-1)))"
```

```
ThisRulePropertyRef_ctx(r) ::= "localctx"
```

```
ThisRulePropertyRef_parser(r) ::= "self"
```

```
NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"
```

```
AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"
```

```
TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"
```

```
ContextTokenGetterDecl(t)
```

```
    ::= <<
def <t.name>(self):
    return self.getToken(<parser.name>.<t.name>, 0)
>>
```

```
// should never be called
```

```
ContextTokenListGetterDecl(t) ::= <<
```

```
def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
>>
```

```
ContextTokenListIndexedGetterDecl(t) ::= <<
```

```
def <t.name>(self, i=None):
    if i is None:
        return self.getTokens(<parser.name>.<t.name>)
    else:
        return self.getToken(<parser.name>.<t.name>, i)
>>
```

```
ContextRuleGetterDecl(r) ::= <<
```

```
def <r.name>(self):
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)
>>
```

```
// should never be called
```

```
ContextRuleListGetterDecl(r) ::= <<
```

```
def <r.name>_list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
>>
```

```
ContextRuleListIndexedGetterDecl(r) ::= <<
```

```
def <r.name>(self, i=None):
    if i is None:
```

```

    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
  else:
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext()
  ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):

  def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.name>=None}>):
    super(<parser.name>.<struct.name>, self).__init__(parent, invokingState)
    self.parser = parser
    <attrs:{a | <a>}; separator="\n">
    <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; separator="\n">

    <getters:{g | <g>};
    separator="\n\n">

    def getRuleIndex(self):
      return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
  def copyFrom(self, ctx):
    super(<parser.name>.<struct.name>, self).copyFrom(ctx)
    <struct.attrs:{a | self.<a.name> = ctx.<a.name>}; separator="\n">

<endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">

>>

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
class <struct.name><(currentRule.name; format="cap">Context):

    def __init__(self, parser, ctx): # actually a <parser.name>.<currentRule.name; format="cap">Context
        super(<parser.name>.<struct.name>, self).__init__(parser)
        <attrs:{ a | <a>}; separator="\n">
        self.copyFrom(ctx)

    <getters:{ g | <g>}; separator="\n">

    <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener):
    if hasattr(listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">"):
        listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor):
    if hasattr(visitor, "visit<struct.derivedFromName; format="cap">"):
        return visitor.visit<struct.derivedFromName; format="cap">(self)
    else:
        return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()
    ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)

```

```
>>
```

```
recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<  
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName>;  
format="cap">Context(self, _parentctx, _parentState))  
<if(label)>  
<if(isListLabel)>  
localctx.<label>.append(_prevctx)  
<else>  
localctx.<label> = _prevctx  
<endif>  
<endif>  
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)  
>>
```

```
recRuleReplaceContext(ctxName) ::= <<  
localctx = <parser.name>.<ctxName>Context(self, localctx)  
self._ctx = localctx  
_prevctx = localctx  
>>
```

```
recRuleSetPrevCtx() ::= <<  
if self._parseListeners is not None:  
    self.triggerExitRuleEvent()  
_prevctx = localctx  
>>
```

```
LexerFile(lexerFile,  
lexer, namedActions) ::= <<  
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>  
# encoding: utf-8  
from __future__ import print_function  
from antlr4 import *  
from io import StringIO  
  
<namedActions.header>  
  
<lexer>  
>>
```

```
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<  
  
<atn>  
  
class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):
```

```

atn = ATNDeserializer().deserialize(serializedATN())

decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<rest(lexer.modes):{m| <m> = <i>}; separator="\n">

<lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>

modeNames = [ <lexer.modes:{m| u"<m>"}; separator=", ", wrap, anchor ]

literalNames = [ u"\<INVALID>",
  <lexer.literalNames:{t | u<t>}; separator=", ", wrap, anchor ]

symbolicNames = [ u"\<INVALID>",
  <lexer.symbolicNames:{t | u<t>}; separator=", ", wrap, anchor ]

ruleNames = [ <lexer.ruleNames:{r
| u"<r>"}; separator=", ", wrap, anchor ]

grammarFileName = u"<lexer.grammarFileName>"

def __init__(self, input=None):
    super(<lexer.name>, self).__init__(input)
    self.checkVersion("<lexerFile.ANTLRVersion>")
    self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
    self._actions = None
    self._predicates = None

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
    with StringIO() as buf:
        buf.write(u"<model.serialized; wrap={}<\n>    buf.write(u"}>")
        return buf.getvalue()

>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<

```

```
<javaTypeInitMap.(typeName)>
```

```
>>
```

```
codeFileExtension() ::= ".py"
```

```
Found in path(s):
```

```
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-  
jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
```

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No license file was found, but licenses were detected in source scan.
```

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```

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```

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* Copyright (c) 2012-2016 Sam Harwell
```

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```

```
*/
```

```
/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.
```

```
* Parses trees created by ANTLRParser.g.
```

```
*
```

```
* Rather than have multiple tree grammars, one for each visit, I'm
```

```
* creating this generic visitor that knows about context. All of the
```

```
* boilerplate pattern recognition is done here. Then, subclasses can
```

```
* override the methods they care about.
```

```

This prevents a lot of the same
* context tracking stuff like "set current alternative for current
* rule node" that is repeated in lots of tree filters.
*/
tree grammar GrammarTreeVisitor;
options {
    language    = Java;
    tokenVocab  = ANTLRParser;
    ASTLabelType = GrammarAST;
}

// Include the copyright in this source and also the generated source
@header {
/*
[The "BSD license"]
Copyright (c) 2011 Terence Parr
All rights reserved.

```

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```

*/
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;

```

```

}

@members
{
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
    CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
    setTreeNodeStream(nodes);
    try {
        Method m = getClass().getMethod(ruleName);
        m.invoke(this);
    }
    catch (Throwable e) {
        ErrorManager errMgr = getErrorManager();
        if ( e instanceof InvocationTargetException ) {
            e = e.getCause();
        }
        //e.printStackTrace(System.err);
        if
        ( errMgr==null ) {
            System.err.println("can't find rule "+ruleName+
                " or tree structure error: "+t.toStringTree()
            );
            e.printStackTrace(System.err);
        }
        else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
    }
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }

```

```

public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST
rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
ActionAST arg, ActionAST returns, GrammarAST thrws,
GrammarAST options, ActionAST locals,
List<GrammarAST> actions,
GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST
valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

```

```
protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }
```

```
protected void enterOption(GrammarAST tree) { }
protected void exitOption(GrammarAST tree) { }
```

```
protected void enterOptionValue(GrammarAST
tree) { }
protected void exitOptionValue(GrammarAST tree) { }
```

```
protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }
```

```
protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }
```

```
protected void enterTokensSpec(GrammarAST tree) { }
protected void exitTokensSpec(GrammarAST tree) { }
```

```
protected void enterTokenSpec(GrammarAST tree) { }
protected void exitTokenSpec(GrammarAST tree) { }
```

```
protected void enterChannelsSpec(GrammarAST tree) { }
protected void exitChannelsSpec(GrammarAST tree) { }
```

```
protected void enterChannelSpec(GrammarAST tree) { }
protected void exitChannelSpec(GrammarAST tree) { }
```

```
protected void enterAction(GrammarAST tree) { }
protected void exitAction(GrammarAST tree) { }
```

```
protected void enterRules(GrammarAST tree) { }
protected void exitRules(GrammarAST tree) { }
```

```
protected void enterMode(GrammarAST tree) { }
protected void exitMode(GrammarAST tree) { }
```

```
protected
void enterLexerRule(GrammarAST tree) { }
protected void exitLexerRule(GrammarAST tree) { }
```

```
protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }
```

```
protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }
```

protected void enterExceptionHandler(GrammarAST tree) { }

protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }

protected void exitFinallyClause(GrammarAST tree) { }

protected void enterLocals(GrammarAST tree) { }

protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }

protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }

protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }

protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST tree) { }

protected

void exitRuleModifier(GrammarAST tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }

protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }

protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }

protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }

protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }

protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }

protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }

protected void exitLexerElement(GrammarAST tree) { }

protected void enterLabeledLexerElement(GrammarAST tree) { }

protected void exitLabeledLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }

protected

```
void exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }
protected void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }

protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }

protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }

protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }

protected
void enterLexerSubrule(GrammarAST tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }

protected void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }

protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }

protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }

protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }
```

```

protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected
void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) { }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

@Override
public void traceIn(String ruleName, int ruleIndex) {
    System.err.println("enter "+ruleName+": "+input.LT(1));
}

@Override
public void traceOut(String ruleName, int ruleIndex) {
    System.err.println("exit "+ruleName+": "+input.LT(1));
}
}

grammarSpec
@init {
    enterGrammarSpec($start);
}
@after {
    exitGrammarSpec($start);
}
: ^( GRAMMAR ID {grammarName=$ID.text;}
    {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
    prequelConstructs
    {finishPrequels($prequelConstructs.firstOne);}
    rules mode*
    {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
)
;

prequelConstructs returns [GrammarAST firstOne=null]
@init {

```

```

enterPrequelConstructs($start);
}
@after {
exitPrequelConstructs($start);
}
: {$firstOne=$start;} prequelConstruct+
|
;

```

```

prequelConstruct
@init
{
enterPrequelConstructs($start);
}
@after {
exitPrequelConstructs($start);
}
: optionsSpec
| delegateGrammars
| tokensSpec
| channelsSpec
| action
;

```

```

optionsSpec
@init {
enterOptionsSpec($start);
}
@after {
exitOptionsSpec($start);
}
: ^(OPTIONS option*)
;

```

```

option
@init {
enterOption($start);
boolean rule = inContext("RULE ...");
boolean block = inContext("BLOCK ...");
}
@after {
exitOption($start);
}
: ^(a=ASSIGN ID v=optionValue)
{
if ( block ) blockOption($ID, $v.start); // most specific first
else if ( rule ) ruleOption($ID, $v.start);
else grammarOption($ID, $v.start);
}

```

```

    }
    ;

optionValue returns [String v]
@init {
    enterOptionValue($start);
    $v = $start.token.getText();
}
@after {
    exitOptionValue($start);
}
: ID
| STRING_LITERAL
| INT
;

delegateGrammars
@init {
    enterDelegateGrammars($start);
}
@after {
    exitDelegateGrammars($start);
}
: ^(IMPORT
delegateGrammar+)
;

delegateGrammar
@init {
    enterDelegateGrammar($start);
}
@after {
    exitDelegateGrammar($start);
}
: ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}
| id=ID    {importGrammar(null, $id);}
;

tokensSpec
@init {
    enterTokensSpec($start);
}
@after {
    exitTokensSpec($start);
}
: ^(TOKENS_SPEC tokenSpec+)
;

```

```

tokenSpec
@init {
  enterTokenSpec($start);
}
@after {
  exitTokenSpec($start);
}
: ID {defineToken($ID);}
;

channelsSpec
@init {
  enterChannelsSpec($start);
}
@after {
  exitChannelsSpec($start);
}
: ^(CHANNELS channelSpec+)
;

channelSpec
@init {
  enterChannelSpec($start);
}
@after {
  exitChannelSpec($start);
}
: ID {defineChannel($ID);}
;

action
@init {
  enterAction($start);
}
@after {
  exitAction($start);
}
: ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
;

rules
@init {
  enterRules($start);
}
@after {
  exitRules($start);
}
: ^(RULES {discoverRules($RULES);} (rule|lexerRule)*

```

```

{finishRules($RULES);}
;

mode
@init {
  enterMode($start);
}
@after {
  exitMode($start);
}
: ^( MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
;

lexerRule
@init {
  enterLexerRule($start);
  List<GrammarAST> mods = new ArrayList<GrammarAST>();
  currentOuterAltNumber=0;
}
@after {
  exitLexerRule($start);
}
: ^( RULE TOKEN_REF
  {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
  (^ (RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
  {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, (GrammarAST)input.LT(1));}
  lexerRuleBlock
  {
    finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
    currentRuleName=null; currentRuleAST=null;
  }
  )
;

rule
@init {
  enterRule($start);
  List<GrammarAST> mods = new ArrayList<GrammarAST>();
  List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
  currentOuterAltNumber=0;
}
@after {
  exitRule($start);
}
: ^( RULE RULE_REF {currentRuleName=$RULE_REF.text;
currentRuleAST=$RULE;}
(^ (RULEMODIFIERS (m=ruleModifier{mods.add($m.start);})+))?
ARG_ACTION?

```

```

ret=ruleReturns?
thr=throwsSpec?
loc=locals?
( opts=optionsSpec
| a=ruleAction {actions.add($a.start);}
)*
{discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
  $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
  $thr.start, $opts.start,
  $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
  actions, (GrammarAST)input.LT(1));}
ruleBlock exceptionGroup
{finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
)
;

exceptionGroup
@init {
enterExceptionGroup($start);
}
@after {
exitExceptionGroup($start);
}
: exceptionHandler* finallyClause?
;

exceptionHandler
@init {
enterExceptionHandler($start);
}
@after {
exitExceptionHandler($start);
}
: ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION,
(ActionAST)$ACTION);}
;

finallyClause
@init {
enterFinallyClause($start);
}
@after {
exitFinallyClause($start);
}
: ^(FINALLY ACTION) {finallyAction((ActionAST)$ACTION);}
;

locals

```

```

@init {
  enterLocals($start);
}
@after {
  exitLocals($start);
}
: ^(LOCALS ARG_ACTION)
;

ruleReturns
@init {
  enterRuleReturns($start);
}
@after {
  exitRuleReturns($start);
}
: ^(RETURNS ARG_ACTION)
;

throwsSpec
@init {
  enterThrowsSpec($start);
}
@after {
  exitThrowsSpec($start);
}
: ^(THROWS ID+)
;

ruleAction
@init {
  enterRuleAction($start);
}
@after {
  exitRuleAction($start);
}
: ^(AT ID ACTION)
;

ruleModifier
@init {
  enterRuleModifier($start);
}
@after {
  exitRuleModifier($start);
}
: PUBLIC
| PRIVATE

```

| PROTECTED

| FRAGMENT

;

lexerRuleBlock

@init {

enterLexerRuleBlock(\$start);

}

@after {

exitLexerRuleBlock(\$start);

}

: ^( BLOCK

( {

currentOuterAltRoot = (GrammarAST)input.LT(1);

currentOuterAltNumber++;

}

lexerOuterAlternative

)+

)

;

ruleBlock

@init {

enterRuleBlock(\$start);

}

@after {

exitRuleBlock(\$start);

}

: ^( BLOCK

( {

currentOuterAltRoot = (GrammarAST)input.LT(1);

currentOuterAltNumber++;

}

outerAlternative

)+

)

;

lexerOuterAlternative

@init {

enterLexerOuterAlternative((AltAST)\$start);

discoverOuterAlt((AltAST)\$start);

}

@after {

finishOuterAlt((AltAST)\$start);

exitLexerOuterAlternative((AltAST)\$start);

}

: lexerAlternative

;

outerAlternative

```
@init {
  enterOuterAlternative((AltAST)$start);
  discoverOuterAlt((AltAST)$start);
}
@after {
  finishOuterAlt((AltAST)$start);
  exitOuterAlternative((AltAST)$start);
}
: alternative
;
```

lexerAlternative

```
@init {
  enterLexerAlternative($start);
}
@after {
  exitLexerAlternative($start);
}
: ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
  | lexerElements
;
```

lexerElements

```
@init {
  enterLexerElements($start);
}
@after {
  exitLexerElements($start);
}
: ^(ALT lexerElement+)
;
```

lexerElement

```
@init {
  enterLexerElement($start);
}
@after {
  exitLexerElement($start);
}
: labeledLexerElement
  | lexerAtom
  | lexerSubrule
  | ACTION    {actionInAlt((ActionAST)$ACTION);}
  | SEMPRED   {sempredInAlt((PredAST)$SEMPRED);}
;
```

```

| ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
| EPSILON
;

```

labeledLexerElement

```

@init {
  enterLabeledLexerElement($start);
}
@after {
  exitLabeledLexerElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))
;

```

lexerBlock

```

@init {
  enterLexerBlock($start);
}
@after {
  exitLexerBlock($start);
}
: ^(BLOCK optionsSpec? lexerAlternative+)
;

```

lexerAtom

```

@init {
  enterLexerAtom($start);
}
@after {
  exitLexerAtom($start);
}
: terminal
| ^(NOT blockSet)
| blockSet
| ^(WILDCARD elementOptions)
| WILDCARD
| LEXER_CHAR_SET
| range
| ruleref
;

```

actionElement

```

@init {
  enterActionElement($start);
}
@after

```

```

{
  exitActionElement($start);
}
: ACTION
| ^(ACTION elementOptions)
| SEMPRED
| ^(SEMPRED elementOptions)
;

```

alternative

```

@init {
  enterAlternative((AltAST)$start);
  discoverAlt((AltAST)$start);
}
@after {
  finishAlt((AltAST)$start);
  exitAlternative((AltAST)$start);
}
: ^(ALT elementOptions? element+)
| ^(ALT elementOptions? EPSILON)
;

```

lexerCommand

```

@init {
  enterLexerCommand($start);
}
@after {
  exitLexerCommand($start);
}
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
  {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
| ID
  {lexerCommand(currentOuterAltNumber, $ID);}
;

```

lexerCommandExpr

```

@init {
  enterLexerCommandExpr($start);
}
@after {
  exitLexerCommandExpr($start);
}
: ID
| INT
;

```

element

```

@init {

```

```

enterElement($start);
}
@after {
exitElement($start);
}
: labeledElement
| atom
| subrule
| ACTION    {actionInAlt((ActionAST)$ACTION);}
| SEMPRED   {sempredInAlt((PredAST)$SEMPRED);}
|
|^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^((SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}

|^(NOT blockSet)
|^(NOT block)
;

astOperand
@init {
enterAstOperand($start);
}
@after {
exitAstOperand($start);
}
: atom
|^(NOT blockSet)
|^(NOT block)
;

labeledElement
@init {
enterLabeledElement($start);
}
@after {
exitLabeledElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
;

subrule
@init {
enterSubrule($start);
}
@after {
exitSubrule($start);
}
: ^(blockSuffix block)

```

```

| block
;

lexerSubrule
@init {
  enterLexerSubrule($start);
}
@after {
  exitLexerSubrule($start);
}
: ^(blockSuffix lexerBlock)
| lexerBlock
;

blockSuffix
@init {
  enterBlockSuffix($start);
}
@after {
  exitBlockSuffix($start);
}
: ebnfSuffix
;

ebnfSuffix
@init {
  enterEbnfSuffix($start);
}
@after {
  exitEbnfSuffix($start);
}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;

atom
@init {
  enterAtom($start);
}
@after
{
  exitAtom($start);
}
: ^(DOT ID terminal)
| ^(DOT ID ruleref)
| ^(WILDCARD elementOptions) {wildcardRef($WILDCARD);}
| WILDCARD {wildcardRef($WILDCARD);}

```

```

| terminal
| blockSet
| ruleref
;

blockSet
@init {
enterBlockSet($start);
}
@after {
exitBlockSet($start);
}
: ^(SET setElement+)
;

setElement
@init {
enterSetElement($start);
}
@after {
exitSetElement($start);
}
: ^(STRING_LITERAL elementOptions) {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{
stringRef((TerminalAST)$a);
stringRef((TerminalAST)$b);
}
| LEXER_CHAR_SET
;

block
@init {
enterBlock($start);
}
@after {
exitBlock($start);
}
: ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)
;

ruleref
@init {
enterRuleref($start);
}

```

```

@after {
  exitRuleRef($start);
}
: ^(RULE_REF arg=ARG_ACTION? elementOptions?)
  {
    ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
    if ( $arg!=null ) actionInAlt((ActionAST)$arg);
  }
;

range
@init {
  enterRange($start);
}
@after {
  exitRange($start);
}
: ^(RANGE STRING_LITERAL STRING_LITERAL)
;

terminal
@init {
  enterTerminal($start);
}
@after {
  exitTerminal($start);
}
: ^(STRING_LITERAL elementOptions)
  {stringRef((TerminalAST)$STRING_LITERAL);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
;

elementOptions
@init {
  enterElementOptions($start);
}
@after {
  exitElementOptions($start);
}
: ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
;

elementOption[GrammarASTWithOptions t]
@init {
  enterElementOption($start);
}

```

```

@after
{
  exitElementOption($start);
}
: ID    {elementOption(t, $ID, null);}
| ^(ASSIGN id=ID v=ID) {elementOption(t, $id, $v);}
| ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=ACTION) {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=INT) {elementOption(t, $ID, $v);}
;

```

Found in path(s):

```

* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/parse/GrammarTreeVisitor.g

```

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*/

```

```

tree grammar ATNBuilder;

```

```

options {
    language = Java;
    tokenVocab = ANTLRParser;
    ASTLabelType = GrammarAST;
    // filter = true;
}

// Include the copyright in this source and also the generated source
@header {
    /*
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    THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
    THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
    */
    package org.antlr.v4.parse;
    import org.antlr.v4.tool.*;
    import org.antlr.v4.tool.ast.*;
    import org.antlr.v4.automata.ATNFactory;
}

@members {
    ATNFactory factory;
    public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
        this(input);
        this.factory = factory;
    }
}

```

dummy : block[null] ; // avoid error about no start rule

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]

```
@init {
    List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
    int alt = 1;
    factory.setCurrentOuterAlt(alt);
}
: ^(BLOCK
    (^ (OPTIONS .*))?
    ( a=alternative
        {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
    )+
)
{ $p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts); }
;
```

block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]

```
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
: ^(BLOCK (^ (OPTIONS .*))? (a=alternative {alts.add($a.p);})+ )
{ $p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts); }
;
```

alternative returns [ATNFactory.Handle p]

```
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
: ^(LEXER_ALT_ACTION a=alternative lexerCommands)
    { $p = factory.lexerAltCommands($a.p,$lexerCommands.p); }
| ^(ALT elementOptions? EPSILON)    { $p = factory.epsilon($EPSILON); }
| ^(ALT elementOptions? (e=element {els.add($e.p);})+) { $p = factory.alt(els); }
;
```

lexerCommands returns [ATNFactory.Handle p]

```
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
: (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
{
    $p = factory.alt(cmds);
}
;
```

lexerCommand returns

```
[ATNFactory.Handle cmd]
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
    { $cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start); }
| ID
    { $cmd = factory.lexerCommand($ID); }
;
```

lexerCommandExpr

```
: ID
| INT
;
```

element returns [ATNFactory.Handle p]

```
: labeledElement  {$p = $labeledElement.p;}
| atom            {$p = $atom.p;}
| subrule        {$p = $subrule.p;}
| ACTION         {$p = factory.action((ActionAST)$ACTION);}
| SEMPRED        {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(ACTION .)    {$p = factory.action((ActionAST)$ACTION);}
| ^(SEMPRED .)   {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(NOT b=blockSet[true]) {$p = $b.p;}
| LEXER_CHAR_SET {$p = factory.charSetLiteral($start);}
;
```

astOperand returns [ATNFactory.Handle p]

```
: atom            {$p = $atom.p;}
| ^(NOT blockSet[true]) {$p = $blockSet.p;}
;
```

labeledElement returns [ATNFactory.Handle p]

```
: ^(ASSIGN ID element)  {$p = factory.label($element.p);}
| ^(PLUS_ASSIGN ID element)
  {$p = factory.listLabel($element.p);}
;
```

subrule returns [ATNFactory.Handle p]

```
: ^(OPTIONAL block[$start])  {$p = $block.p;}
| ^(CLOSURE block[$start])    {$p = $block.p;}
| ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
| block[null]                {$p = $block.p;}
;
```

blockSet[boolean invert] returns [ATNFactory.Handle p]

```
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
: ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
;
```

/\*\* Don't combine with atom otherwise it will build spurious ATN nodes \*/

setElement

```
: ^(STRING_LITERAL .)
| ^(TOKEN_REF .)
| STRING_LITERAL
| TOKEN_REF
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
| LEXER_CHAR_SET
```

;

atom returns [ATNFactory.Handle p]

```
: range    {$p = $range.p;}
| ^(DOT ID terminal) {$p = $terminal.p;}
| ^(DOT ID ruleref) {$p = $ruleref.p;}
| ^(WILDCARD .) {$p = factory.wildcard($start);}
| WILDCARD {$p = factory.wildcard($start);}
| blockSet[false] {$p
= $blockSet.p;}
| terminal {$p = $terminal.p;}
| ruleref {$p = $ruleref.p;}
;
```

ruleref returns [ATNFactory.Handle p]

```
: ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*)) {$p = factory.ruleRef($RULE_REF);}
| ^(RULE_REF ARG_ACTION?) {$p = factory.ruleRef($RULE_REF);}
| RULE_REF {$p = factory.ruleRef($RULE_REF);}
;
```

range returns [ATNFactory.Handle p]

```
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
;
```

terminal returns [ATNFactory.Handle p]

```
: ^(STRING_LITERAL .) {$p = factory.stringLiteral((TerminalAST)$start);}
| STRING_LITERAL {$p = factory.stringLiteral((TerminalAST)$start);}
| ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
| ^(TOKEN_REF .) {$p = factory.tokenRef((TerminalAST)$start);}
| TOKEN_REF {$p = factory.tokenRef((TerminalAST)$start);}
;
```

elementOptions

```
: ^(ELEMENT_OPTIONS elementOption*)
;
```

elementOption

```
: ID
| ^(ASSIGN ID
ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;
```

Found in path(s):

\* /opt/cola/permits/1166873170\_1621514800.65/0/antlr4-4-6-sources-1-jar/org/antlr/v4/parse/ATNBuilder.g

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- \*/

```
SwiftTypeInitMap ::= [
  "Int": "0",
  "Int64": "0",
  "Float": "0.0",
  "Double": "0.0",
  "Bool": "false",
  default: "nil" // anything other than a primitive type is an object
]
```

```
SwiftTypeMap ::= [
  "int": "Int",
  "float": "Float",
  "long": "Int64",
  "double": "Double",
  "bool": "Bool",
  "boolean": "Bool",
  default : key
]
```

```
// args must be <object-model-object>,
<fields-resulting-in-STs>
```

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4
```

```
<parser>
```

```
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
<if(file.genPackage)>
```

```
<!package <file.genPackage>;!>
```

```
<endif>
```

```
<header>
```

```
import Antlr4
```

```
/**
```

```
* This interface defines a complete listener for a parse tree produced by
```

```
* { @link <file.parserName> }.
```

```
*/
```

```
public protocol <file.grammarName>Listener: ParseTreeListener {
```

```
<file.listenerNames: {lname |
```

```
/**
```

```
<if(file.listenerLabelRuleNames.(lname))>
```

```
* Enter a parse tree produced by the { @code <lname> \}
```

```
* labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)> \}.
```

```
<else>
```

```
* Enter a parse tree produced by { @link <file.parserName>#<lname> \}.
```

```
<endif>
```

```
- Parameters:
```

```
- ctx: the parse tree
```

```
*/
```

```
func enter<lname>
```

```
format="cap">(_ ctx: <file.parserName>.<lname>; format="cap">Context)
```

```
/**
```

```
<if(file.listenerLabelRuleNames.(lname))>
```

```
* Exit a parse tree produced by the { @code <lname> \}
```

```
* labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)> \}.
```

```
<else>
```

```
* Exit a parse tree produced by { @link <file.parserName>#<lname> \}.
```

```
<endif>
```

```
- Parameters:
```

```
- ctx: the parse tree
```

```
*/
```

```
func exit<lname>; format="cap">(_ ctx: <file.parserName>.<lname>; format="cap">Context); separator="\n">
```

```
}
```

```
>>
```

```
BaseListenerFile(file, header, namedActions) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
<if(file.genPackage)>
```

```
<!package <file.genPackage>;!>
```

```

<endif>
<header>

import Antlr4

/**
 * This class provides an empty implementation of { @link <file.grammarName>Listener },
 * which can be extended to create a listener which only needs to handle a subset
 * of the available methods.
 */
open class <file.grammarName>BaseListener: <file.grammarName>Listener {
    public init() { \}
    <file.listenerNames>: { lname
    |

/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
open func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context) { \}
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
open func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context) { \} };
separator="\n">

/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
open func enterEveryRule(_ ctx: ParserRuleContext) { }
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
open func exitEveryRule(_ ctx: ParserRuleContext) { }
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
open func visitTerminal(_ node: TerminalNode) { }

```

```

/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
open func visitErrorNode(_ node: ErrorNode) { }
}
>>

VisitorFile(file, header, namedActions)
::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
 * This interface defines a complete generic visitor for a parse tree produced
 * by { @link <file.parserName> }.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void } for
 * operations with no return type.
 */
open class <file.grammarName>Visitor\<T>: ParseTreeVisitor\<T> {
  <file.visitorNames:{Iname |
/**
<if(file.visitorLabelRuleNames.(Iname))>
 * Visit a parse tree produced by the { @code <Iname>}
 * labeled alternative in { @link <file.parserName>#<file.visitorLabelRuleNames.(Iname)> }.
<else>
 * Visit a parse tree produced by { @link <file.parserName>#<Iname> }.
<endif>
- Parameters:
  - ctx: the parse tree
- returns: the visitor result
 */
open func visit<Iname; format="cap">(_ ctx: <file.parserName>.<Iname; format="cap">Context) -> T{
  fatalError(#function + " must be overridden")
}
}; separator="\n">
}
>>

BaseVisitorFile(file,
header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>

```

```

<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
 * This class provides an empty implementation of { @link <file.grammarName>Visitor},
 * which can be extended to create a visitor which only needs to handle a subset
 * of the available methods.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void} for
 * operations with no return type.
 */
open class <file.grammarName>BaseVisitor\<T>: AbstractParseTreeVisitor\<T> {
  <file.visitorNames:{ lname |
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation returns the result of calling
 * { @link #visitChildren\} on { @code ctx\}.\</p>
 */
  open func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context) -> T? { return
  visitChildren(ctx) \}}; separator="\n">
  }
  >>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape">
by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
</*!@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})!>
open class <parser.name>: <superClass; null="Parser"> {

  internal static var _decisionToDFA: [DFA] = {
    var decisionToDFA = [DFA]()
    let length = <parser.name>._ATN.getNumberOfDecisions()
    for i in 0..\<length {
      </*! decisionToDFA[i] = DFA(<parser.name>._ATN.getDecisionState(i)!, i)!>
      decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))
    }
    return decisionToDFA
  }
}

```

```

    }()
internal static let _sharedContextCache: PredictionContextCache = PredictionContextCache()
<if(parser.tokens)>
public enum Tokens: Int {
    case EOF = -1, <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>
}
    <endif>
public
static let <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>
public static let ruleNames: [String] = [
    <parser.ruleNames:{r | "<r>"; separator=", ", wrap, anchor>
]

<vocabulary(parser.literalNames, parser.symbolicNames)>

override
open func getGrammarFileName() -> String { return "<parser.grammarFileName; format="java-escape">" }

override
open func getRuleNames() -> [String] { return <parser.name>.ruleNames }

override
open func getSerializedATN() -> String { return <parser.name>._serializedATN }

override
open func getATN() -> ATN { return <parser.name>._ATN }

<namedActions.members>
<parser:(ctor)()>
<funcs; separator="\n">

<if(sempredFuncs)>
    override
    open func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int, _ predIndex: Int)throws -> Bool {
        switch (ruleIndex) {
            <parser.sempredFuncs.values:{f}
        case <f.ruleIndex>:
            return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)); separator="\n">

            default: return true
        }
        <!return true;!>
    }
    <sempredFuncs.values; separator="\n">
<endif>

<atn>
public static let _serializedATN : String = <parser.name>ATN().jsonString

```

```

    public static let _ATN: ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
  }
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static let _LITERAL_NAMES: [String?] = [
  <literalNames: {t | <t>}; null="nil", separator=", ", wrap, anchor>
]
private static let _SYMBOLIC_NAMES: [String?] = [
  <symbolicNames: {t | <t>}; null="nil", separator=", ", wrap, anchor>
]
public static let VOCABULARY: Vocabulary = Vocabulary(_LITERAL_NAMES, _SYMBOLIC_NAMES)

/**
 * @deprecated Use { @link #VOCABULARY } instead.
 */
//@Deprecated
public let tokenNames: [String?]? = {
  let length = _SYMBOLIC_NAMES.count
  var tokenNames = [String?](repeating: nil, count: length)
  for i in 0..

```

```

<f.name>_action((_localctx as <f.ctxType>?), actionIndex)
  }; separator="\n">
default: break
}
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
override
open func sempred(_ _localctx:RuleContext?, _ ruleIndex: Int, _ predIndex: Int) throws -> Bool{
  switch (ruleIndex) {
  <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
  return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)); separator="\n">
  default: return true
  }
  <!return true;!>
  }
  <sempredFuncs.values; separator="\n">
<endif>
>>

```

```

parser_ctor(p) ::= <<

```

```

open override
func getVocabulary() -> Vocabulary {
  return <p.name>.VOCABULARY
}

```

```

public override init(_ input:TokenStream)throws {
  RuntimeMetaData.checkVersion("4.6", RuntimeMetaData.VERSION)
  try super.init(input)
  _interp = ParserATNSimulator(self,<p.name>._ATN,<p.name>._decisionToDFA,
  <parser.name>._sharedContextCache)
}
>>

```

```

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

```

RuleActionFunction(r, actions) ::= <<
private func <r.name>_action(_ _localctx: <r.ctxType>?, _ actionIndex: Int) {
  switch (actionIndex) {
  <actions:{index|
case <index>:
  <actions.(index)>
  }; separator="\n">
  default: break

```

```
}  
}  
>>
```

```
/* This generates a private method since the predIndex is generated, making an  
* overriding implementation impossible to maintain.
```

```
*/
```

```
RuleSempredFunction(r, actions) ::= <<  
private func <r.name>_sempred(_ _localctx: <r.ctxType>!, _ predIndex: Int) throws -> Bool {  
switch (predIndex) {  
<actions: {index|  
    case <index>:return <actions.(index)>; separator="\n">  
    default: return true  
}  
<!return true;!>  
}  
>>
```

```
RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
```

```
::= <<
```

```
<ruleCtx>  
<altLabelCtxs: {l | <altLabelCtxs.(l)>; separator="\n">  
@discardableResult  
<if(currentRule.modifiers)><currentRule.modifiers: {f | <f> }><else>open func  
<endif><currentRule.name>(<if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType> {  
var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, getState())<currentRule.args: {a | ,  
<a.name>}>>  
try enterRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>)  
<namedActions.init>  
<locals; separator="\n">  
defer {  
    <finallyAction>  
    try! exitRule()  
}  
do {  
<if(currentRule.hasLookaheadBlock)>  
var _alt: Int  
<endif>  
<code>  
<postamble; separator="\n">  
<namedActions.after>  
}  
<if(exceptions)>  
<exceptions; separator="\n">  
<else>  
catch  
ANTLRException.recognition(let re) {  
    _localctx.exception = re
```



```
}
```

```
return _localctx;
```

```
}
```

```
>>
```

```
CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<  
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = <currentOuterMostAltCodeBlock.altLabel;  
format="cap">Context(_localctx);<endif>  
try enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>  
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>  
>>
```

```
CodeBlockForAlt(currentAltCodeBlock,  
locals, preamble, ops) ::= <<  
<!/{!>  
<locals; separator="\n">  
<preamble; separator="\n">  
<ops; separator="\n">  
<!/{}!>  
>>
```

```
LL1AltBlock(choice, preamble, alts, error) ::= <<  
setState(<choice.stateNumber>  
try _errHandler.sync(self)  
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>  
<preamble; separator="\n">  
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {  
<choice.altLook,alts:{look,alt | <cases(ttypes=look)>  
<alt>  
break}; separator="\n">  
default:  
<error>  
}  
>>
```

```
LL1OptionalBlock(choice, alts, error) ::= <<  
setState(<choice.stateNumber>  
try _errHandler.sync(self)  
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {  
<choice.altLook,alts:{look,alt | <cases(ttypes=look)>  
<alt>  
break}; separator="\n">  
default:  
<error>  
}  
>>
```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
if (<expr>) {
  <alts; separator="\n">
}
<!else
if ( !(<followExpr>) ) <error!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
while (<loopExpr>) {
  <alts; separator="\n">
  setState(<choice.loopBackStateNumber>)
  try _errHandler.sync(self)
  <iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>) <! alt block decision !>
try _errHandler.sync(self)
<preamble; separator="\n">
repeat {
  <alts; separator="\n">
  setState(<choice.stateNumber>); <! loopback/exit decision !>
  try _errHandler.sync(self)
  <iteration>
} while (<loopExpr>)
>>

```

```
// LL(*) stuff
```

```

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch(try getInterpreter().adaptivePredict(_input,<choice.decision>, _ctx)) {
  <alts:{alt |
case
  <i>:
  <alt>
break}; separator="\n">

```

```
default: break
```

```
}
```

```
>>
```

```
OptionalBlock(choice, alts, error) ::= <<
```

```
setState(<choice.stateNumber>)
```

```
try _errHandler.sync(self)
```

```
switch (try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
```

```
<alts:{alt |
```

```
case <i><if(!choice.ast.greedy)>+1<endif>:
```

```
<alt>
```

```
break}; separator="\n">
```

```
default: break
```

```
}
```

```
>>
```

```
StarBlock(choice, alts, sync, iteration) ::= <<
```

```
setState(<choice.stateNumber>)
```

```
try _errHandler.sync(self)
```

```
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
```

```
while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {
```

```
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
```

```
<iteration>
```

```
<alts> <! should only be one !>
```

```
}
```

```
setState(<choice.loopBackStateNumber>)
```

```
try _errHandler.sync(self)
```

```
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
```

```
}
```

```
>>
```

```
PlusBlock(choice, alts, error) ::= <<
```

```
setState(<choice.blockStartStateNumber>); <! alt block decision !>
```

```
try _errHandler.sync(self)
```

```
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
```

```
repeat
```

```
{
```

```
switch (_alt) {
```

```
<alts:{alt|
```

```
case <i><if(!choice.ast.greedy)>+1<endif>:
```

```
<alt>
```

```
break}; separator="\n">
```

```
default:
```

```
<error>
```

```
}
```

```
setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
```

```
try _errHandler.sync(self)
```

```
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
```

```

} while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER)
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw try ANTLRException.recognition(e: NoViableAltException(self))"

TestSetInline(s) ::= <<
<!<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>} ; separator=" || ">!>
//closure
{ () -> Bool in
    <if(rest(s.bitsets)>>var<else>let<endif> testSet: Bool = <first(s.bitsets):{bits |
<if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>}>
    <rest(s.bitsets):{bits | testSet =
testSet || <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>} ; separator="\n">
    return testSet
}()
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <<
<!(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1 \<< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1 \<< <offsetShift(ttype, bits.shift)>)} ; separator=" | ">)) != 0)!>
{ () -> Bool in
    <! let test: Bool = (<testShiftInRange({<offsetShift(s.varName, bits.shift)>})>)!>
    <!var temp: Int64 = Int64(<offsetShift(s.varName, bits.shift)>)!>
    <!temp = (temp \< 0) ? (64 + (temp % 64)) : (temp % 64)!>
    <!let test1: Int64 = (Int64(1) \<< temp)!>
    <!var test2: Int64 = (<first(bits.ttypes):{ttype
| Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>)!>
    <!<rest(bits.ttypes):{ttype | test2 = test2 | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>;
separator="\n">!>
    let testArray: [Int] = [<s.varName>, <bits.ttypes:{ttype |<parserName(ttype)>} ; separator=", ">]
    <!var test2: Int64 = Utils.testBitLeftShiftArray(testArray)!>
    return Utils.testBitLeftShiftArray(testArray, <bits.shift>)
}()
>>

isZero ::= [
"0": true,
default: false

```

```

]
parserName(ttype) ::= <%
<parser.name>.Tokens.<ttype>.rawValue
%>
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName> == <parser.name>.Tokens.<ttype>.rawValue}; separator=" || ">
%>

cases(ttypes) ::= <<
<trunc(ttypes): {t | case .<t>:fallthrough} ; separator="\n">
<last(ttypes): {t
| case .<t>:} ; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>)
<if(r.labels)>
try {
let assignmentValue = try
<r.name><(if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChunks>
<r.labels:{l | <labelref(l)> = assignmentValue} ; separator="\n">
}0
<else>try
<r.name><(if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChunks><endif>
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>)
<if(m.labels)>
try {
let assignmentValue = try match(<parser.name>.Tokens.<m.name>.rawValue)
<m.labels:{l | <labelref(l)> = assignmentValue} ; separator="\n">
}0
<else>try match(<parser.name>.Tokens.<m.name>.rawValue)<endif>
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>)
<if(m.labels)><m.labels:{l | <labelref(l)>

```

```

= }>try _input.LT(1)<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif><expr>)) {
  <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>try _errHandler.recoverInline(self)<if(m.labels)> as
  Token<endif>
}
else {
  _errHandler.reportMatch(self)
  try consume()
}
>>

```

```

Wildcard(w) ::= <<
  setState(<w.stateNumber>)
  <if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>try matchWildcard();
>>

```

```
// ACTION STUFF
```

```
Action(a, foo, chunks) ::= "<chunks>"
```

```
ArgAction(a, chunks) ::= "<chunks>"
```

```

SemPred(p, chunks, failChunks) ::= <<
  setState(<p.stateNumber>)
  if (!<chunks>)) {
    throw try ANTLRException.recognition(e:FailedPredicateException(self, <p.predicate><if(failChunks)>,
    <failChunks><elseif(p.msg)>, <p.msg><endif>))
  }
>>

```

```

ExceptionClause(e, catchArg, catchAction) ::= <<
  catch (<catchArg>) {
    <catchAction>
  }
>>

```

```
// lexer actions are not associated with model objects
```

```
LexerSkipCommand() ::= "skip()"
```

```
LexerMoreCommand() ::= "more()"
```

```
LexerPopModeCommand() ::= "popMode()"
```

```
LexerTypeCommand(arg)
```

```
  ::= "_type = <arg>"
```

```
LexerChannelCommand(arg) ::= "_channel = <arg>"
```

```
LexerModeCommand(arg) ::= "_mode = <arg>"
```

```
LexerPushModeCommand(arg) ::= "pushMode(<arg>)"
```

```

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValRef(a) ::= "_localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getText()! : \"\""
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label>
!= nil ? <ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getChannel() : 0)"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "<ctx(t)>.<t.label> != nil ? Int(<ctx(t)>.<t.label>!.getText()) : 0)"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.start?.description ?? \"\") : \"\""
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.stop?.description ?? \"\") : \"\""
RulePropertyRef_text(r) ::= "<ctx(r)>.<r.label> != nil ? try
_input.getText(<ctx(r)>.<r.label>!.start,<ctx(r)>.<r.label>!.stop) : \"\""
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r) ::=
"_localctx.stop"
ThisRulePropertyRef_text(r) ::= "(try _input.getText(_localctx.start, try _input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
"(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "<t.name>: <SwiftTypeMap.(TokenLabelType)>!"
TokenTypeDecl(t) ::= "var <t.name>: Int = 0"
TokenListDecl(t) ::= "<t.name>: Array<Token> = Array<Token>()"

```

```

RuleContextDecl(r) ::= "<r.name>: <r.ctxName>!"
RuleContextListDecl(rdecl) ::= "<rdecl.name>:Array\<<rdecl.ctxName>> = Array\<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t) ::=
  "open func <t.name>() -> TerminalNode? { return getToken(<parser.name>.Tokens.<t.name>.rawValue, 0) }"
ContextTokenListGetterDecl(t)
  ::=
  "open func <t.name>() -> Array\<TerminalNode> { return getTokens(<parser.name>.Tokens.<t.name>.rawValue)
  }"
ContextTokenListIndexedGetterDecl(t) ::= <<
open func <t.name>(_ i: Int) -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.name>.rawValue, i)
}
>>
ContextRuleGetterDecl(r) ::= <<
open func <r.name>() -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, 0)
}
>>
ContextRuleListGetterDecl(r) ::= <<
open func <r.name>() -> Array\<<r.ctxName>\> {
  return getRuleContexts(<r.ctxName>.self)
}
>>
ContextRuleListIndexedGetterDecl(r) ::= <<
open func <r.name>(_ i: Int) -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, i)
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label)
  ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = try _input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = try _input.LA(1)"

StructDecl(struct, ctorAttrs, attrs, getters, dispatchMethods, interfaces, extensionMembers,
  superClass={ParserRuleContext}) ::= <<

```

```

open class
<struct.name>:<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>,
<interfaces; separator=", "><endif> {
  <attrs:{a | public var <a>}; separator="\n">
  <getters:{g | <g>}; separator="\n">
  <! <if(ctorAttrs)>public init(_ parent: ParserRuleContext, _ invokingState: Int) { super.init(parent, invokingState)
  }<endif> !>
  <if(ctorAttrs)>
  public convenience init(_ parent: ParserRuleContext?, _ invokingState: Int<ctorAttrs:{a | , _ <a>}>) {
  self.init(parent, invokingState)
  <struct.ctorAttrs:{a | self.<a.name> = <a.name>;}; separator="\n">
  }
  <endif>
  open override func getRuleIndex() -> Int { return <parser.name>.RULE_<struct.derivedFromName> }
  <if(struct.provideCopyFrom)>
  <! don't need copy unless we have subclasses !>
  <!public init() { }!>
  public func copyFrom(_ ctx: <struct.name>) {
  super.copyFrom(ctx)
  <struct.attrs:{a | self.<a.name> = ctx.<a.name>;}; separator="\n">
  }
  <endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">
  }
  >>

```

```

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public final class <struct.name>: <currentRule.name; format="cap">Context {
  <attrs:{a | public var <a>}; separator="\n">
  <getters:{g | <g>}; separator="\n">
  public init(_ ctx: <currentRule.name; format="cap">Context) {
  super.init()
  copyFrom(ctx)
  }
  <dispatchMethods; separator="\n">
  }
  >>

```

```

ListenerDispatchMethod(method) ::= <<
override
open func <if(method.isEnter)>enter<else>exit<endif>Rule(_ listener: ParseTreeListener) {
  if listener is <parser.grammarName>Listener {
  (listener as!
  <parser.grammarName>Listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
  format="cap">(self)
  }
  }
}

```

>>

```
VisitorDispatchMethod(method)
::= <<
override
open func accept<T>(_ visitor: ParseTreeVisitor<T>) -> T? {
if visitor is <parser.grammarName>Visitor {
    return (visitor as! <parser.grammarName>Visitor<T>).visit<struct.derivedFromName; format="cap">(self)
} else if visitor is <parser.grammarName>BaseVisitor {
    return (visitor as! <parser.grammarName>BaseVisitor<T>).visit<struct.derivedFromName; format="cap">(self)
}
} else {
    return visitor.visitChildren(self)
}
}
>>
```

```
AttributeDecl(d) ::= "<d.name>: <SwiftTypeMap.(d.type)><if(d.initValue)> = <d.initValue><else>!<endif>"
```

```
/** If we don't know location of label def x, use this template (_localctx as! <x.ctx.name> */
```

```
labelref(x) ::= "<if(!x.isLocal)>_localctx.castdown(<x.ctx.name>.self).<endif><x.name>"
```

```
/** For any action chunk, what is correctly-typed context struct ptr? */
```

```
ctx(actionChunk) ::= "_localctx.castdown(<actionChunk.ctx.name>.self)"
```

```
// used for left-recursive rules
```

```
recRuleAltPredicate(ruleName, opPrec)
```

```
 ::= "precpred(_ctx, <opPrec>)"
```

```
recRuleSetReturnAction(src, name) ::= "$<name>=$<src>.<name>"
```

```
recRuleSetStopToken() ::= "_ctx!.stop = try _input.LT(-1)"
```

```
recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
```

```
_localctx = <ctxName>Context(_parentctx, _parentState);
```

```
<if(label)>
```

```
<if(isListLabel)>
```

```
_localctx.<label>.append(_prevctx)
```

```
<else>
```

```
_localctx.<label> = _prevctx
```

```
<endif>
```

```
<endif>
```

```
<if(label)>_localctx.<label> = _prevctx;<endif>
```

```
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
```

```
>>
```

```
recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
```

```
_localctx = <currentAltLabel; format="cap">Context( <ruleName; format="cap">Context(_parentctx,
_parentState))
```

```
<if(label)>
```

```

<if(isListLabel)>
(_localctx as! <currentAltLabel; format="cap">Context).<label>.append(_prevctx)
<else>
(_localctx as! <currentAltLabel; format="cap">Context).<label> = _prevctx
<endif>
<endif>
try pushNewRecursionContext(_localctx, _startState,
<parser.name>.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = <ctxName>Context(_localctx)
_ctx = _localctx
_prevctx = _localctx
>>

recRuleSetPrevCtx() ::= <<
if _parseListeners != nil {
try triggerExitRuleEvent()
}
_prevctx = _localctx
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
<!package <lexerFile.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
open class <lexer.name>: <superClass; null="Lexer"> {
internal static var _decisionToDFA: [DFA] = {
var decisionToDFA = [DFA]()
let length = <lexer.name>._ATN.getNumberOfDecisions()
for i in 0..<length {
<! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i)!, i);!>
decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i)!, i))
}
}

return decisionToDFA
}()

internal static let _sharedContextCache:PredictionContextCache = PredictionContextCache()

```

```

public static let <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>
<if(lexer.channels)>
  public let <lexer.channels:{k | <k>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>
<endif>
<rest(lexer.modes):{m| public static let <m>: Int = <i>;}; separator="\n">
public static let modeNames: [String] = [
  <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
]

public static let ruleNames: [String] = [
  <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
]

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

<namedActions.members>
open override func getVocabulary() -> Vocabulary {
  return <lexer.name>.VOCABULARY
}

public override init(_ input: CharStream) {
  RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION)
  super.init(input)
  _interp = LexerATNSimulator(self, <lexer.name>._ATN,
  <lexer.name>._decisionToDFA, <lexer.name>._sharedContextCache)
}

override
open func getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

  override
open func getRuleNames() -> [String] { return <lexer.name>.ruleNames }

override
open func getSerializedATN() -> String { return <lexer.name>._serializedATN }

override
open func getModeNames() -> [String] { return <lexer.name>.modeNames }

override
open func getATN() -> ATN { return <lexer.name>._ATN }

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
  public static let _serializedATN: String = <lexer.name>ATN().jsonString
  public static let _ATN: ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

```

```
/** Don't need to define anything. The tool generates a XParserATN.swift file (and same for lexer)
 * which is referenced from static field _serializedATN. This json string is passed to
 * deserializeFromJson(). Note this is not the "serialization as array of ints" that
 other targets
 * do. It is more or less the output of ATNPrinter which gets read back in.
 */
```

```
SerializedATN(model) ::= <<
>>
```

```
/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
```

```
initValue(typeName) ::= <<
<SwiftTypeInitMap.(typeName)>
>>
```

```
codeFileExtension() ::= ".swift"
```

Found in path(s):

```
* /opt/cola/permits/1166873170_1621514800.65/0/antlr4-4-6-sources-1-
jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg
```

# 1.91 commons-dbutils 1.5

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## 1.92 xz-java 1.9

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```
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69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type  
'show w'. This is free software, and you are welcome to redistribute  
it under certain conditions; type 'show c' for details.
```

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```
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program 'Gnomovision' (which makes passes at compilers) written by  
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```

```
signature of Ty Coon, 1 April 1989  
Ty Coon, President of Vice
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# 1.94 commons-lang3 3.12.0

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# 1.95 picocli 4.6.1

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Found in path(s):

\* /opt/cola/permits/1177083937\_1625028998.96/0/picocli-4-6-1-sources-jar/picocli/AutoComplete.java

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\*/

/\*\*

\* Called when either the command, option or positional parameter that has this preprocessor configured was recognized by the picocli parser.

\* <p>Implementors are free to modify one or more of the specified command line arguments before they are processed by the picocli parser (or by the option's

{ @link IParameterConsumer parameter consumer }, if one is specified).

\* </p><p>

\* Implementors may optionally <em>consume</em> one or more of the specified command line arguments:

\* a return value of { @code true } signals that the preprocessor consumed the parameter:

\* picocli should skip further processing of this option or positional parameter,

\* and the preprocessor implementation takes responsibility for assigning the

\* option or positional parameter a value. A return value of { @code false } means that picocli should

\* process the stack as usual for this option or positional parameter, and picocli is responsible for

\* assigning this option or positional parameter a value.

\* </p><p>

\* For a command, returning { @code true } signals that the preprocessor takes responsibility for parsing all

\* options and positional parameters for this command, and takes responsibility for validating constraints

like

\* whether all required options and positional parameters were specified.

\* A return value of { @code false } means that picocli should

\* process the stack as usual for this command, and picocli is responsible for validation.

\* Command preprocessors can signal back to the picocli parser when they detect that the user requested version

\* information or usage help by putting a value of { @code true } in the specified

\* { @code info } map for keys { @code versionHelpRequested } or { @code usageHelpRequested }, respectively.

\* </p><p>

\* If the user input is invalid, implementations should throw a [{@link ParameterException}](#) with a message to display to the user.

\* `</p>`

\* `@param args` the remaining command line arguments that follow the matched argument (the matched argument is not on the stack anymore)

\* `@param commandSpec` the command or subcommand that was matched

(if the specified `{@code argSpec}` is

\* `{@code null}`), or the command that the matched option or positional parameter belongs to

\* `@param argSpec` the option or positional parameter for which to pre-process command line arguments (may be `{@code null}` when this method is called for a subcommand that was matched)

\* `@param info` a map containing additional information on the current parser state, including whether the option parameter was attached to the option name with a ``='` separator, whether quotes have already been stripped off the option, etc. Implementations may modify this map to communicate back to the picocli parser.

\* Supported values:

\* `<table>`

\* `<tr>`

\* `<th>key</th><th>valid values</th><th>type</th>`

\* `</tr>`

\* `<tr>`

\* `<td>separator</td><td>" (empty string): attached without separator, ' ' (space): not attached, (any other string): option name was attached to option param with specified separator</td>`

\* `<td>java.lang.String</td>`

\* `</tr>`

\* `<tr>`

\* `<td>negated</td>`

\* `<td>{@code true}: the option or positional parameter is a {@linkplain Option#negatable\(\) negated} option/parameter, {@code false}: the option or positional parameter is not a negated option/parameter</td>`

\* `<td>java.lang.Boolean</td>`

\* `</tr>`

\* `<tr>`

\* `<td>unquoted</td>`

\* `<td>{@code true}: quotes surrounding the value have already been stripped off, {@code false}: quotes surrounding the value have not yet been stripped off</td>`

\* `<td>java.lang.Boolean</td>`

\* `</tr>`

\* `<tr>`

\* `<td>versionHelpRequested</td>`

\* `<td>{@code true}: version help was requested, {@code false}: version help was not requested</td>`

\* `<td>java.lang.Boolean</td>`

\* `</tr>`

\* `<tr>`

\* `<td>usageHelpRequested</td>`

\* `<td>{@code true}: usage help was requested, {@code false}: usage help was not requested</td>`

\* `<td>java.lang.Boolean</td>`

\* `</tr>`

```
*      </table>
* @returns true if the preprocessor consumed the parameter
*      and picocli should skip further processing of the stack for this option or positional parameter;
*      false if picocli should continue processing the stack for this option or positional parameter
* @throws ParameterException if the
user input is invalid
*/
```

Found in path(s):

```
*/opt/cola/permits/1177083937_1625028998.96/0/picocli-4-6-1-sources-jar/picocli/CommandLine.java
```

# 1.96 jakarta xml bind api 2.3.3

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* /opt/cola/permits/1192230980_1629146682.85/0/jcl-over-slf4j-1-7-32-sources-
jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1192230980_1629146682.85/0/jcl-over-slf4j-1-7-32-sources-
jar/org/apache/commons/logging/impl/SLF4JLogFactory.java
```

# 1.100 okhttp 4.5.0

## 1.100.1 Available under license :

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/*
```

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 \*/

## 1.101 kerberos 1.19

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cmd/krb5/iproplib/iproplib_hdr.h
cmd/krb5/kadmin/server/iproplib_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech_gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech_spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
```

lib/krb5/kdb/kdb\_hdr.h  
lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
lib/libgss/g\_canon\_name.c  
lib/libgss/g\_compare\_name.c  
lib/libgss/g\_context\_time.c  
lib/libgss/g\_delete\_sec\_context.c  
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lib/libgss/g\_dsp\_status.c  
lib/libgss/g\_dup\_name.c  
lib/libgss/g\_exp\_sec\_context.c  
lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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- lib/gssapi/mechglue/g\_acquire\_cred.c
- lib/gssapi/mechglue/g\_canon\_name.c
- lib/gssapi/mechglue/g\_compare\_name.c
- lib/gssapi/mechglue/g\_context\_time.c
- lib/gssapi/mechglue/g\_delete\_sec\_context.c
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- lib/gssapi/mechglue/g\_imp\_sec\_context.c
- lib/gssapi/mechglue/g\_init\_sec\_context.c
- lib/gssapi/mechglue/g\_initialize.c
- lib/gssapi/mechglue/g\_inquire\_context.c
- lib/gssapi/mechglue/g\_inquire\_cred.c
- lib/gssapi/mechglue/g\_inquire\_names.c
- lib/gssapi/mechglue/g\_process\_context.c
- lib/gssapi/mechglue/g\_rel\_buffer.c
- lib/gssapi/mechglue/g\_rel\_cred.c
- lib/gssapi/mechglue/g\_rel\_name.c
- lib/gssapi/mechglue/g\_rel\_oid\_set.c
- lib/gssapi/mechglue/g\_seal.c
- lib/gssapi/mechglue/g\_sign.c
- lib/gssapi/mechglue/g\_store\_cred.c
- lib/gssapi/mechglue/g\_unseal.c
- lib/gssapi/mechglue/g\_userok.c
- lib/gssapi/mechglue/g\_utils.c
- lib/gssapi/mechglue/g\_verify.c
- lib/gssapi/mechglue/gssd\_pname\_to\_uid.c
- lib/gssapi/mechglue/mglueP.h
- lib/gssapi/mechglue/oid\_ops.c
- lib/gssapi/spnego/gssapiP\_spnego.h
- lib/gssapi/spnego/spnego\_mech.c

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- include/iprop\_hdr.h
- kadmin/server/ipropd\_svc.c
- lib/kdb/iprop.x
- lib/kdb/kdb\_convert.c
- lib/kdb/kdb\_log.c

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kprop/kpropd\_rpc.c  
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2000-05-05

## 1.105 junit 4.13.2

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# 1.106 junit-jupiter-engine 5.7.2

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
```

lib/libgss/g\_compare\_name.c  
lib/libgss/g\_context\_time.c  
lib/libgss/g\_delete\_sec\_context.c  
lib/libgss/g\_dsp\_name.c  
lib/libgss/g\_dsp\_status.c  
lib/libgss/g\_dup\_name.c  
lib/libgss/g\_exp\_sec\_context.c  
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lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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- lib/gssapi/generic/gssapi\_err\_generic.et
- lib/gssapi/mechglue/g\_accept\_sec\_context.c
- lib/gssapi/mechglue/g\_acquire\_cred.c
- lib/gssapi/mechglue/g\_canon\_name.c
- lib/gssapi/mechglue/g\_compare\_name.c
- lib/gssapi/mechglue/g\_context\_time.c
- lib/gssapi/mechglue/g\_delete\_sec\_context.c
- lib/gssapi/mechglue/g\_dsp\_name.c
- lib/gssapi/mechglue/g\_dsp\_status.c
- lib/gssapi/mechglue/g\_dup\_name.c
- lib/gssapi/mechglue/g\_exp\_sec\_context.c
- lib/gssapi/mechglue/g\_export\_name.c

lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

- lib/gssapi/generic/gssapi\_err\_generic.et
- lib/gssapi/mechglue/g\_accept\_sec\_context.c
- lib/gssapi/mechglue/g\_acquire\_cred.c
- lib/gssapi/mechglue/g\_canon\_name.c
- lib/gssapi/mechglue/g\_compare\_name.c
- lib/gssapi/mechglue/g\_context\_time.c
- lib/gssapi/mechglue/g\_delete\_sec\_context.c
- lib/gssapi/mechglue/g\_dsp\_name.c
- lib/gssapi/mechglue/g\_dsp\_status.c
- lib/gssapi/mechglue/g\_dup\_name.c
- lib/gssapi/mechglue/g\_exp\_sec\_context.c
- lib/gssapi/mechglue/g\_export\_name.c
- lib/gssapi/mechglue/g\_glue.c
- lib/gssapi/mechglue/g\_imp\_name.c
- lib/gssapi/mechglue/g\_imp\_sec\_context.c
- lib/gssapi/mechglue/g\_init\_sec\_context.c
- lib/gssapi/mechglue/g\_initialize.c
- lib/gssapi/mechglue/g\_inquire\_context.c
- lib/gssapi/mechglue/g\_inquire\_cred.c
- lib/gssapi/mechglue/g\_inquire\_names.c
- lib/gssapi/mechglue/g\_process\_context.c
- lib/gssapi/mechglue/g\_rel\_buffer.c
- lib/gssapi/mechglue/g\_rel\_cred.c
- lib/gssapi/mechglue/g\_rel\_name.c
- lib/gssapi/mechglue/g\_rel\_oid\_set.c
- lib/gssapi/mechglue/g\_seal.c
- lib/gssapi/mechglue/g\_sign.c
- lib/gssapi/mechglue/g\_store\_cred.c
- lib/gssapi/mechglue/g\_unseal.c
- lib/gssapi/mechglue/g\_userok.c
- lib/gssapi/mechglue/g\_utils.c
- lib/gssapi/mechglue/g\_verify.c
- lib/gssapi/mechglue/gssd\_pname\_to\_uid.c
- lib/gssapi/mechglue/mglueP.h
- lib/gssapi/mechglue/oid\_ops.c
- lib/gssapi/spnego/gssapiP\_spnego.h
- lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

- include/iprop\_hdr.h
- kadmin/server/ipropd\_svc.c

lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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- lib/gssapi/mechglue/g\_canon\_name.c
- lib/gssapi/mechglue/g\_compare\_name.c
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- lib/gssapi/mechglue/g\_dsp\_name.c
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- include/iprop\_hdr.h
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lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
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lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c

lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
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lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
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lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c

lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
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lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation,  
including  
the following new or changed files:

include/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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## 1.112 groovy 3.0.9

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```

groovy

Found in path(s):

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/META-INF/groovy/org.codehaus.groovy.source.Extensions

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\*

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\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/util/package.html

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org.codehaus.groovy/control/io/package.html

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org.codehaus.groovy/tools/xml/package.html

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org.codehaus.groovy/runtime/typehandling/package.html

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org.codehaus.groovy/ast/stmt/package.html

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org.codehaus.groovy/classgen/package.html

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org.codehaus.groovy/tools/javac/package.html

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\*

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\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/vmplugin/package.html  
\*  
/opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/reflection/package.html  
\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/package.html  
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\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/package.html  
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\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/time/package.html  
\*  
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\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/tools/package.html  
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```
# global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation
```

Found in path(s):

```
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-jar/META-INF/services/org.codehaus.groovy.transform.ASTTransformation
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* Based on an original grammar released in the PUBLIC DOMAIN
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```
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* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/antlr/groovy.g
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jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EntryWeigher.java
```

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```
/** JSR-241 Groovy Recognizer.
```

```
*
```

```
* Run 'java Main [-showtree] directory-full-of-groovy-files'
```

```
*
```

```
* [The -showtree option pops up a Swing frame that shows
```

```
* the AST constructed from the parser.]
```

```
*
```

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- \*
- \* Version 1.00 December 9, 1997 -- initial release
- \* Version 1.01 December 10, 1997
- \* fixed bug in octal def (0..7 not 0..8)
- \* Version 1.10 August 1998 (parrt)
- \* added tree construction
- \* fixed definition of WS,comments for mac,pc,unix newlines
- \* added unary plus
- \* Version 1.11 (Nov 20, 1998)
- \* Added "shutup" option to turn off last ambig warning.
- \* Fixed inner class def to allow named class defs as statements
- \* synchronized requires compound not simple statement
- \* add [] after builtInType DOT class in primaryExpression
- \* "const" is reserved but not valid..removed from modifiers
- \* Version 1.12 (Feb 2, 1999)
- \* Changed LITERAL\_XXX to xxx in tree  
grammar.
- \* Updated java.g to use tokens {...} now for 2.6.0 (new feature).
- \*
- \* Version 1.13 (Apr 23, 1999)
- \* Didn't have (stat)? for else clause in tree parser.
- \* Didn't gen ASTs for interface extends. Updated tree parser too.
- \* Updated to 2.6.0.
- \* Version 1.14 (Jun 20, 1999)
- \* Allowed final/abstract on local classes.
- \* Removed local interfaces from methods
- \* Put instanceof precedence where it belongs...in relationalExpr
- \* It also had expr not type as arg; fixed it.
- \* Missing ! on SEMI in classBlock
- \* fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
- \* fixed: didn't like Object[].class in parser or tree parser

- \* Version 1.15 (Jun 26, 1999)
  - \* Screwed up rule with instanceof in it. :( Fixed.
  - \* Tree parser didn't like (expr).something; fixed.
  - \* Allowed multiple inheritance in tree grammar. oops.
- \* Version 1.16 (August 22, 1999)
  - \* Extending an interface built a wacky tree: had extra EXTENDS.
  - \* Tree grammar didn't allow multiple superinterfaces.
  - \* Tree grammar didn't allow empty var initializer: { }
- \* Version 1.17 (October 12, 1999)
  - \* ESC lexer rule allowed 399 max not 377 max.
  - \* java.tree.g didn't handle the expression of synchronized statements.
- \* Version 1.18 (August 12, 2001)
  - \* Terence updated to Java 2 Version 1.3 by observing/combining work of Allan Jacobs and Steve Messick. Handles 1.3 src. Summary:
    - \* o primary didn't include boolean.class kind of thing
    - \* o constructor calls parsed explicitly now:
      - \* see explicitConstructorInvocation
    - \* o add strictfp modifier
    - \* o missing objBlock after new expression in tree grammar
    - \* o
  - merged local class definition alternatives, moved after declaration
    - \* o fixed problem with ClassName.super.field
    - \* o reordered some alternatives to make things more efficient
    - \* o long and double constants were not differentiated from int/float
    - \* o whitespace rule was inefficient: matched only one char
    - \* o add an examples directory with some nasty 1.3 cases
    - \* o made Main.java use buffered IO and a Reader for Unicode support
    - \* o supports UNICODE?
      - \* Using Unicode charVocabulary makes code file big, but only in the bitsets at the end. I need to make ANTLR generate unicode bitsets more efficiently.
- \* Version 1.19 (April 25, 2002)
  - \* Terence added in nice fixes by John Pybus concerning floating constants and problems with super() calls. John did a nice reorg of the primary/postfix expression stuff to read better
    - \* and makes f.g.super() parse properly (it was METHOD\_CALL not a SUPER\_CTOR\_CALL). Also:
      - \* o "finally" clause was a root...made it a child of "try"
      - \* o Added stuff for asserts too for Java 1.4, but \*commented out\* as it is not backward compatible.
- \* Version 1.20 (October 27, 2002)
  - \*

- \* Terence ended up reorging John Pybus' stuff to
- \* remove some nondeterminisms and some syntactic predicates.
- \* Note that the grammar is stricter now; e.g., this(...) must
- \* be the first statement.
- \*
- \* Trinary ?: operator wasn't working as array name:
- \* (isBig ? bigDigits : digits)[i];
- \*
- \* Checked parser/tree parser on source for
- \* Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
- \* and the 110k-line jGuru server source.
- \*
- \* Version 1.21 (October 17, 2003)
- \* Fixed lots of problems including:
  - \* Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
  - \* He found a problem/fix with floating point that start with 0
  - \* Ray also fixed problem that (int.class) was not recognized.
  - \* Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
  - \* TJP fixed CHAR\_LITERAL analogously.
- \*
- \* Version 1.21.2 (March, 2003)
- \* Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
- \* Notes:
  - \* o We only allow the "extends" keyword and not the "implements"
  - \* keyword, since that's what JSR14 seems to imply.
  - \* o Thanks to Monty Zukowski for his help on the antlr-interest
  - \* mail list.
  - \* o Thanks to Alan Eliassen for testing the grammar over his
  - \* Fink source base
- \*
- \* Version 1.22 (July, 2004)
- \* Changes by Michael Studman to support Java 1.5 language extensions
- \* Notes:
  - \* o Added support for annotations types
  - \* o Finished off Matt Quail's generics
  - enhancements to support bound type arguments
  - \* o Added support for new for statement syntax
  - \* o Added support for static import syntax
  - \* o Added support for enum types
  - \* o Tested against JDK 1.5 source base and source base of jdigraph project
  - \* o Thanks to Matt Quail for doing the hard part by doing most of the generics work
- \*
- \* Version 1.22.1 (July 28, 2004)
- \* Bug/omission fixes for Java 1.5 language support
  - \* o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for
  - \* spotting this
  - \* o Fixed bug where incorrect handling of SR and BSR tokens would cause type
  - \* parameters to be recognised as type arguments.

- \* o Enabled type parameters on constructors, annotations on enum constants
- \* and package definitions
- \* o Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua
- \*
  - \* Version 1.22.2 (July 28, 2004)
    - \* Slight refactoring of Java 1.5 language support
    - \* o Refactored for/"foreach" productions so that original literal "for" literal is still used but the for sub-clauses vary by token type
    - \* o Fixed bug where type parameter was not included in generic constructor's branch of AST
  - \* Version 1.22.3 (August 26, 2004)
    - \* Bug fixes as identified by Michael Stahl; clean up of tabs/spaces and other refactorings
    - \* o Fixed typeParameters omission in identPrimary and newStatement
    - \* o Replaced GT reconciliation code with simple semantic predicate
    - \* o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
    - \* o Refactored typeDefinition production and field productions to reduce duplication
  - \* Version 1.22.4 (October 21, 2004)
    - \* Small bux fixes
    - \* o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
    - \* o Added typeArguments to postfixExpression productions for anonymous inner class super constructor invocation, e.g. new Outer().<String>super()
    - \* o Fixed bug in array declarations identified by Geoff Roy
  - \* Version 1.22.4.g.1
    - \* o I have taken java.g for Java 1.5 from Michael Studman (1.22.4) and have applied the groovy.diff from java.g (1.22) by John Rose back onto the new root (1.22.4) - Jeremy Rayner (Jan 2005)
  - \* Version 1.22.4.g.2
    - \* o mkempf, rkleeb, Dec 2007
    - \* o fixed various rules so that they call the correct Create Method to make sure that the line information are correct
- \* Based on an original grammar released in the PUBLIC DOMAIN
- \*/

Found in path(s):

```
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/antlr/parser/GroovyRecognizer.java
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* This file is adapted from the Antlr4 Java grammar which has the following license
```

```
*
```

```
* Copyright (c) 2013 Terence Parr, Sam Harwell
```

```

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*/

/**
* The Groovy grammar is based on the official grammar for Java:
* https://github.com/antlr/grammars-v4/blob/master/java/Java.g4
*/
parser grammar GroovyParser;

options {
    tokenVocab = GroovyLexer;
    contextSuperClass = GroovyParserRuleContext;
    superClass = AbstractParser;
}

@header {
    import java.util.Map;
    import org.codehaus.groovy.ast.NodeMetaDataHandler;
}

@members {

    public static class GroovyParserRuleContext extends ParserRuleContext implements NodeMetaDataHandler {
        private Map metaDataMap = null;

```

```

public GroovyParserRuleContext() {}

public GroovyParserRuleContext(ParserRuleContext parent, int invokingStateNumber) {
    super(parent, invokingStateNumber);
}

@Override
public Map<?, ?> getMetaDataMap() {
    return this.metaDataMap;
}

@Override
public void setMetaDataMap(Map<?, ?> metaDataMap) {
    this.metaDataMap = metaDataMap;
}

@Override
public int getSyntaxErrorSource() {
    return GroovySyntaxError.PARSER;
}

@Override
public int getErrorLine() {
    Token token = _input.LT(-1);

    if (null == token) {
        return -1;
    }

    return token.getLine();
}

@Override
public int getErrorColumn() {
    Token token = _input.LT(-1);

    if (null == token) {
        return -1;
    }

    return token.getCharPositionInLine() + 1 + token.getText().length();
}

// starting point for parsing a groovy file
compilationUnit
    : nls (packageDeclaration sep)? scriptStatements? EOF

```

```

;

scriptStatements
: scriptStatement (sep scriptStatement)* sep?
;

scriptStatement
: importDeclaration
// Import statement. Can be used in any scope. Has "import x as y" also.
| typeDeclaration
// validate the method in the AstBuilder#visitMethodDeclaration, e.g. method without method body is not allowed
| { !SemanticPredicates.isInvalidMethodDeclaration(_input) }?
  methodDeclaration[3, 9]
| statement
;

packageDeclaration
: annotationsOpt PACKAGE qualifiedName
;

importDeclaration
: annotationsOpt IMPORT STATIC? qualifiedName (DOT MUL | AS alias=identifier)?
;

typeDeclaration
: classOrInterfaceModifiersOpt classDeclaration
;

modifier
: classOrInterfaceModifier
| m=( NATIVE
  | SYNCHRONIZED
  | TRANSIENT
  | VOLATILE
  | DEF
  | VAR
  )
;

modifiersOpt
: (modifiers nls)?
;

modifiers
: modifier (nls modifier)*
;

```

```

classOrInterfaceModifiersOpt
: (classOrInterfaceModifiers
  NL* /* Use `NL*` here for better performance,
so DON'T replace it with `nls` */
  )?
;

```

```

classOrInterfaceModifiers
: classOrInterfaceModifier (nls classOrInterfaceModifier)*
;

```

```

classOrInterfaceModifier
: annotation // class or interface
| m=( PUBLIC // class or interface
  | PROTECTED // class or interface
  | PRIVATE // class or interface
  | STATIC // class or interface
  | ABSTRACT // class or interface
  | FINAL // class only -- does not apply to interfaces
  | STRICTFP // class or interface
  | DEFAULT // interface only -- does not apply to classes
  )
;

```

```

variableModifier
: annotation
| m=( FINAL
  | DEF
  | VAR
  // Groovy supports declaring local variables as instance/class fields,
  // e.g. import groovy.transform.*; @Field static List awe = [1, 2, 3]
  // e.g. import groovy.transform.*; def a = { @Field public List awe
= [1, 2, 3] }
  // Notice: Groovy 2.4.7 just allows to declare local variables with the following modifiers when using
annotations(e.g. @Field)
  // TODO check whether the following modifiers accompany annotations or not. Because the legacy codes(e.g.
benchmark/bench/heapsort.groovy) allow to declare the special instance/class fields without annotations, we leave it
as it is for the time being
  | PUBLIC
  | PROTECTED
  | PRIVATE
  | STATIC
  | ABSTRACT
  | STRICTFP
  )
;

```

```

variableModifiersOpt

```

```

: (variableModifiers nls)?
;

variableModifiers
: variableModifier (nls variableModifier)*
;

typeParameters
: LT nls typeParameter (COMMA nls typeParameter)* nls GT
;

typeParameter
: className (EXTENDS nls typeBound)?
;

typeBound
: type (BITAND nls type)*
;

typeList
: type (COMMA nls type)*
;

/**
 * t 0: class; 1: interface; 2: enum; 3: annotation; 4:
 * trait
 */
classDeclaration
locals[ int t ]
: ( CLASS { $t = 0; }
  | INTERFACE { $t = 1; }
  | ENUM { $t = 2; }
  | AT INTERFACE { $t = 3; }
  | TRAIT { $t = 4; }
  )
  identifier
  (nls typeParameters)?
  (nls EXTENDS nls scs=typeList)?
  (nls IMPLEMENTS nls is=typeList)?
  nls classBody[$t]
;

// t see the comment of classDeclaration
classBody[int t]
: LBRACE nls
  (
    /* Only enum can have enum constants */

```

```

        { 2 == $t }?
        enumConstants (nls COMMA)? sep?
    |
    )
    (classBodyDeclaration[$t] (sep classBodyDeclaration[$t])*)? sep? RBRACE
;

enumConstants
: enumConstant (nls COMMA nls enumConstant)*
;

enumConstant
: annotationsOpt identifier arguments? anonymousInnerClassDeclaration[1]?
;

classBodyDeclaration[int t]
: (STATIC nls)? block
| memberDeclaration[$t]
;

memberDeclaration[int t]
: methodDeclaration[0,
$t]
| fieldDeclaration
| modifiersOpt classDeclaration
;

/**
 * t 0: *class member* all kinds of method declaration AND constructor declaration,
 * 1: normal method declaration, 2: abstract method declaration
 * 3: normal method declaration OR abstract method declaration
 * ct 9: script, other see the comment of classDeclaration
 */
methodDeclaration[int t, int ct]
: modifiersOpt typeParameters? (returnType[$ct] nls)?
  methodName formalParameters
  (
    DEFAULT nls elementValue
  |
    (nls THROWS nls qualifiedClassNameList)?
    (nls methodBody)?
  )?
;

methodName
: identifier
| stringLiteral
;

```

returnType[int ct]

:  
  standardType  
| VOID  
;

fieldDeclaration

: variableDeclaration[1]  
;

variableDeclarators

: variableDeclarator (COMMA nls variableDeclarator)\*  
;

variableDeclarator

: variableDeclaratorId (nls ASSIGN nls variableInitializer)?  
;

variableDeclaratorId

: identifier  
;

variableInitializer

: enhancedStatementExpression  
;

variableInitializers

: variableInitializer (nls COMMA nls variableInitializer)\* nls COMMA?  
;

emptyDims

: (annotationsOpt LBRACK RBRACK)+  
;

emptyDimsOpt

: emptyDims?  
;

standardType

options { baseContext = type; }

: annotationsOpt  
  (  
    primitiveType  
  |  
    standardClassOrInterfaceType  
  )  
  emptyDimsOpt

```

;

type
: annotationsOpt
  (
    (
      primitiveType
    |
      // !!! Error Alternative !!!
      VOID
    )
  |
    generalClassOrInterfaceType
  )
  emptyDimsOpt
;

classOrInterfaceType
: ( qualifiedClassName
  | qualifiedStandardClassName
  ) typeArguments?
;

generalClassOrInterfaceType
options { baseContext = classOrInterfaceType; }

: qualifiedClassName typeArguments?
;

standardClassOrInterfaceType
options { baseContext = classOrInterfaceType; }
: qualifiedStandardClassName typeArguments?
;

primitiveType
: BuiltInPrimitiveType
;

typeArguments
: LT nls typeArgument (COMMA nls typeArgument)* nls GT
;

typeArgument
: type
| annotationsOpt QUESTION ((EXTENDS | SUPER) nls type)?
;

annotatedQualifiedClassName

```

```

: annotationsOpt qualifiedClassName
;

qualifiedClassNameList
: annotatedQualifiedClassName (COMMA nls annotatedQualifiedClassName)*
;

formalParameters
: LPAREN formalParameterList? rparen
;

formalParameterList
: (formalParameter | thisFormalParameter) (COMMA nls formalParameter)*
;

thisFormalParameter
: type THIS
;

formalParameter
: variableModifiersOpt type? ELLIPSIS? variableDeclaratorId (nls ASSIGN nls expression)?
;

methodBody
: block
;

qualifiedName
: qualifiedNameElement
(DOT qualifiedNameElement)*
;

/**
 * Java doesn't have the keywords 'as', 'in', 'def', 'trait' so we make some allowances
 * for them in package names for better integration with existing Java packages
 */

qualifiedNameElement
: identifier
| DEF
| IN
| AS
| TRAIT
;

qualifiedNameElements
: (qualifiedNameElement DOT)*
;

```

```

qualifiedClassName
: qualifiedNameElements identifier
;

qualifiedStandardClassName
: qualifiedNameElements className (DOT className)*
;

literal
: IntegerLiteral                #integerLiteralAlt
| FloatingPointLiteral          #floatingPointLiteralAlt
| stringLiteral                 #stringLiteralAlt
| BooleanLiteral                #booleanLiteralAlt
| NullLiteral                    #nullLiteralAlt
;

// GSTRING

gstring
: GStringBegin gstringValue (GStringPart gstringValue)* GStringEnd
;

gstringValue
: gstringPath
| closure
;

gstringPath
: identifier GStringPathPart*
;

// LAMBDA EXPRESSION
lambdaExpression
options { baseContext = standardLambdaExpression; }
: lambdaParameters nls ARROW nls lambdaBody
;

// JAVA STANDARD LAMBDA EXPRESSION
standardLambdaExpression
: standardLambdaParameters nls ARROW nls lambdaBody
;

lambdaParameters
options { baseContext = standardLambdaParameters; }
: formalParameters

```

```

// { a -> a * 2 } can be parsed as a lambda expression in a block, but we expect a closure.
// So it is better to put parameters in the parentheses and the following single parameter without parentheses is
limited
// | variableDeclaratorId
;

standardLambdaParameters
: formalParameters
|
variableDeclaratorId
;

lambdaBody
: block
| statementExpression
;

// CLOSURE
closure
: LBRACE (nls (formalParameterList nls)? ARROW)? sep? blockStatementsOpt RBRACE
;

// GROOVY-8991: Difference in behaviour with closure and lambda
closureOrLambdaExpression
: closure
| lambdaExpression
;

blockStatementsOpt
: blockStatements?
;

blockStatements
: blockStatement (sep blockStatement)* sep?
;

// ANNOTATIONS

annotationsOpt
: (annotation (nls annotation)* nls)?
;

annotation
: AT annotationName (nls LPAREN elementValues? rparen)?
;

elementValues
: elementValuePairs

```

```

    | elementValue
    ;

annotationName : qualifiedClassName ;

elementValuePairs
  : elementValuePair (COMMA elementValuePair)*
  ;

elementValuePair
  : elementValuePairName nls ASSIGN nls elementValue
  ;

elementValuePairName
  : identifier
  | keywords
  ;

// TODO verify the potential performance issue
// because rule expression contains sub-rule assignments(https://github.com/antlr/grammars-v4/issues/215)
elementValue
  : elementValueArrayInitializer
  | annotation
  | expression
  ;

elementValueArrayInitializer
  : LBSTACK (elementValue (COMMA elementValue)* COMMA?)? RBSTACK
  ;

// STATEMENTS / BLOCKS

block
  : LBSTACK sep? blockStatementsOpt RBSTACK
  ;

blockStatement
  : localVariableDeclaration
  | statement
  ;

localVariableDeclaration
  : { !SemanticPredicates.isInvalidLocalVariableDeclaration(_input) }?
    variableDeclaration[0]
  ;

/**
 * t 0: local variable declaration; 1: field declaration

```

```

*/
variableDeclaration[int t]
  : modifiers nls
    ( type? variableDeclarators
    | typeNamePairs nls ASSIGN nls variableInitializer
    )
  |
  type variableDeclarators
  ;

typeNamePairs
  : LPAREN typeNamePair (COMMA typeNamePair)* rparen
  ;

typeNamePair
  : type? variableDeclaratorId
  ;

variableNames
  : LPAREN variableDeclaratorId (COMMA variableDeclaratorId)+ rparen
  ;

conditionalStatement
  : ifElseStatement
  | switchStatement
  ;

ifElseStatement
  : IF expressionInPar nls tb=statement ((nls | sep) ELSE nls fb=statement)?
  ;

switchStatement
  : SWITCH expressionInPar nls LBRACE nls (switchBlockStatementGroup+ nls)? RBRACE
  ;

loopStatement
  : FOR LPAREN forControl rparen nls statement #forStmtAlt
  | WHILE expressionInPar nls statement #whileStmtAlt
  | DO nls statement nls WHILE expressionInPar #doWhileStmtAlt
  ;

continueStatement
  : CONTINUE
  identifier?
  ;

breakStatement
  : BREAK

```

```

    identifier?
;

tryCatchStatement
: TRY resources? nls block
  (nls catchClause)*
  (nls finallyBlock)?
;

assertStatement
: ASSERT ce=expression (nls (COLON | COMMA) nls me=expression)?
;

statement
: block #blockStmtAlt
| conditionalStatement #conditionalStmtAlt
| loopStatement #loopStmtAlt
| tryCatchStatement #tryCatchStmtAlt
| SYNCHRONIZED expressionInPar nls block #synchronizedStmtAlt
| RETURN expression? #returnStmtAlt
| THROW expression #throwStmtAlt
| breakStatement #breakStmtAlt
| continueStatement #continueStmtAlt
| identifier COLON nls statement #labeledStmtAlt
| assertStatement #assertStmtAlt
| localVariableDeclaration #localVariableDeclarationStmtAlt
| statementExpression #expressionStmtAlt
| SEMI #emptyStmtAlt
;

catchClause
: CATCH LPAREN variableModifiersOpt catchType? identifier rparen nls block
;

catchType
: qualifiedClassName
(BITOR qualifiedClassName)*
;

finallyBlock
: FINALLY nls block
;

resources
: LPAREN nls resourceList sep? rparen
;

```

```
resourceList
  : resource (sep resource)*
  ;
```

```
resource
  : localVariableDeclaration
  | expression
  ;
```

```
/** Matches cases then statements, both of which are mandatory.
 * To handle empty cases at the end, we add switchLabel* to statement.
 */
```

```
switchBlockStatementGroup
  : switchLabel (nls switchLabel)* nls blockStatements
  ;
```

```
switchLabel
  : CASE expression COLON
  | DEFAULT COLON
  ;
```

```
forControl
  : enhancedForControl
  | classicalForControl
  ;
```

```
enhancedForControl
  : variableModifiersOpt type? variableDeclaratorId (COLON | IN) expression
  ;
```

```
classicalForControl
  : forInit? SEMI expression? SEMI forUpdate?
  ;
```

```
forInit
  : localVariableDeclaration
  | expressionList[false]
  ;
```

```
forUpdate
  : expressionList[false]
  ;
```

```
// EXPRESSIONS
```

```
castParExpression
```

```

:
LPAREN type rparen
;

parExpression
: expressionInPar
;

expressionInPar
: LPAREN enhancedStatementExpression rparen
;

expressionList[boolean canSpread]
: expressionListElement[$canSpread] (COMMA expressionListElement[$canSpread])*
;

expressionListElement[boolean canSpread]
: MUL? expression
;

enhancedStatementExpression
: statementExpression
| standardLambdaExpression
;

statementExpression
: commandExpression          #commandExprAlt
;

postfixExpression
: pathExpression op=(INC | DEC)?
;

expression
// must come before postfixExpression to resolve the ambiguities between casting and call on parentheses
expression, e.g. (int)(1 / 2)
: castParExpression castOperandExpression          #castExprAlt

// qualified names, array expressions, method invocation, post inc/dec
| postfixExpression
    #postfixExprAlt

// ~(BNOT)!/(LNOT) (level 1)
| (BITNOT | NOT) nls expression          #unaryNotExprAlt

// math power operator (**) (level 2)
| left=expression op=POWER nls right=expression          #powerExprAlt

```

```

// ++(prefix)--(prefix)/(unary)/(unary) (level 3)
| op=(INC | DEC | ADD | SUB) expression #unaryAddExprAlt

// multiplication/division/modulo (level 4)
| left=expression nls op=(MUL | DIV | MOD) nls right=expression #multiplicativeExprAlt

// binary addition/subtraction (level 5)
| left=expression op=(ADD | SUB) nls right=expression #additiveExprAlt

// bit shift expressions (level 6)
| left=expression nls
  (
    ( dlOp=LT LT
      | tgOp=GT GT GT
      | dgOp=GT GT
    )
    | rangeOp=( RANGE_INCLUSIVE
      | RANGE_EXCLUSIVE
    )
  ) nls
right=expression #shiftExprAlt

// boolean relational expressions (level 7)
| left=expression nls op=(AS | INSTANCEOF | NOT_INSTANCEOF) nls type #relationalExprAlt
| left=expression nls op=(LE | GE | GT | LT | IN | NOT_IN) nls right=expression #relationalExprAlt

// equality/inequality (==/!=) (level 8)
| left=expression nls
  op=( IDENTICAL
    | NOT_IDENTICAL
    | EQUAL
    | NOTEQUAL
    | SPACESHIP
  ) nls
right=expression #equalityExprAlt

// regex find and match ( =~ and ==~ ) (level 8.5)
// jez: moved =~ closer to precedence of == etc, as...

// 'if (foo =~ "a.c")' is very close in intent to 'if (foo == "abc")'
| left=expression nls op=(REGEX_FIND | REGEX_MATCH) nls right=expression #regexExprAlt

// bitwise or non-short-circuiting and (&) (level 9)
| left=expression nls op=BITAND nls right=expression #andExprAlt

// exclusive or (^) (level 10)
| left=expression nls op=XOR nls right=expression #exclusiveOrExprAlt

```

```

// bitwise or non-short-circuiting or (|) (level 11)
| left=expression nls op=BITOR nls right=expression #inclusiveOrExprAlt

// logical and (&&) (level 12)
| left=expression nls op=AND nls right=expression #logicalAndExprAlt

// logical or (||) (level 13)
| left=expression nls op=OR nls right=expression #logicalOrExprAlt

// conditional test (level 14)
| <assoc=right>
con=expression nls
( QUESTION nls tb=expression nls COLON nls
| ELVIS nls
)
fb=expression #conditionalExprAlt

// assignment expression (level 15)
// "(a) = [1]" is a special case of multipleAssignmentExprAlt, it will be handle by assignmentExprAlt
| <assoc=right> left=variableNames nls op=ASSIGN nls right=statementExpression
#multipleAssignmentExprAlt
| <assoc=right> left=expression nls
op=( ASSIGN
| ADD_ASSIGN
| SUB_ASSIGN
| MUL_ASSIGN
| DIV_ASSIGN
| AND_ASSIGN
| OR_ASSIGN
| XOR_ASSIGN
| RSHIFT_ASSIGN
| URSHIFT_ASSIGN
| LSHIFT_ASSIGN
| MOD_ASSIGN
| POWER_ASSIGN
| ELVIS_ASSIGN
) nls
enhancedStatementExpression #assignmentExprAlt
;

castOperandExpression
options { baseContext = expression; }
: castParExpression castOperandExpression #castExprAlt

| postfixExpression #postfixExprAlt

// ~(BNOT)!/(LNOT)
| (BITNOT | NOT) nls castOperandExpression #unaryNotExprAlt

```

```
// ++(prefix)--(prefix)/(unary)/(unary)
| op=(INC | DEC | ADD | SUB) castOperandExpression          #unaryAddExprAlt
;
```

commandExpression

```
: expression
(
  { !SemanticPredicates.isFollowingArgumentsOrClosure($expression.ctx) }?
  argumentList
|
  /* if pathExpression is a method call, no need to have any more arguments */
)

commandArgument*
;
```

commandArgument

```
: commandPrimary
  // what follows is either a normal argument, parens,
  // an appended block, an index operation, or nothing
  // parens (a b already processed):
  //   a b c() d e -> a(b).c().d(e)
  //   a b c()() d e -> a(b).c().call().d(e)
  // index (a b already processed):
  //   a b c[x] d e -> a(b).c[x].d(e)
  //   a b c[x][y] d e -> a(b).c[x][y].d(e)
  // block (a b already processed):
  //   a b c {x} d e -> a(b).c({x}).d(e)
  //
  // parens/block completes method call
  // index makes method call to property get with index
  //
  ( pathElement+
  | argumentList
  )?
;
```

/\*\*

- \* A "path expression" is a name or other primary, possibly qualified by various forms of dot, and/or followed by various kinds of brackets.
- \* It can be used for value or assigned to, or else further qualified, indexed, or called.
- \* It is called a "path" because it looks like a linear path through a data structure.
- \* Examples: x.y, x?.y, x\*.y, x.@y; x[], x[y], x[y,z]; x(), x(y), x(y,z); x{s}; a.b[n].c(x).d{s}
- \* (Compare to a C lvalue, or LeftHandSide in the JLS section 15.26.)
- \* General expressions are built up from path expressions, using operators like '+' and '='.
- \*

```

* t 0: primary, 1: namePart, 2: arguments, 3: closureOrLambdaExpression, 4: indexPropertyArgs, 5:
namedPropertyArgs,
* 6: non-static inner class creator
*/

```

pathExpression returns [int t]

```

: (
    primary
  |
    // if 'static' followed by DOT, we can treat them as identifiers, e.g. static.unused = { -> }
    { _input.LT(2).getType() == DOT }?
    STATIC
  ) (pathElement { $t = $pathElement.t; })*
;

```

pathElement returns [int t]

```

: nls

(
  DOT nls NEW creator[1]
  { $t = 6; }
|
  // AT: foo.@bar selects the field (or attribute), not property
  (
    ( DOT // The all-powerful dot.
    | SPREAD_DOT // Spread operator: x*.y === x?.collect{it.y}
    | SAFE_DOT // Optional-null operator: x?.y === (x==null)?null:x.y
    | SAFE_CHAIN_DOT // Optional-null chain operator: x??.y.z === x?.y?.z
    ) nls (AT | nonWildcardTypeArguments)?
  |
    METHOD_POINTER nls // Method pointer operator: foo.&y == foo.metaClass.getMethodPointer(foo,
"y")
  |
    METHOD_REFERENCE nls // Method reference: System.out::println
  )
  namePart
  { $t = 1; }

  // Can always append a block, as foo{bar}
  | closureOrLambdaExpression
  { $t = 3; }
)

| arguments

{ $t = 2; }

// Element selection is always an option, too.
// In Groovy, the stuff between brackets is a general argument list,

```

```

// since the bracket operator is transformed into a method call.
| indexPropertyArgs
  { $t = 4; }

| namedPropertyArgs
  { $t = 5; }
;

/**
 * This is the grammar for what can follow a dot: x.a, x.@a, x.&a, x.'a', etc.
 */
namePart
:
  ( identifier

  // foo.'bar' is in all ways same as foo.bar, except that bar can have an arbitrary spelling
  | stringLiteral

  | dynamicMemberName

  /* just a PROPOSAL, which has not been implemented yet!
  // PROPOSAL, DECIDE: Is this inline form of the 'with' statement useful?
  // Definition: a.{foo} === {with(a) {foo}}
  // May cover some path expression use-cases previously handled by dynamic scoping (closure delegates).
  | block
  */

  // let's allow common keywords as property names
  |
  keywords
  )
;

/**
 * If a dot is followed by a parenthesized or quoted expression, the member is computed dynamically,
 * and the member selection is done only at runtime. This forces a statically unchecked member access.
 */
dynamicMemberName
: parExpression
| gstring
;

/** An expression may be followed by [...].
 * Unlike Java, these brackets may contain a general argument list,
 * which is passed to the array element operator, which can make of it what it wants.
 * The brackets may also be empty, as in T[]. This is how Groovy names array types.
 */
indexPropertyArgs

```

```

: QUESTION? LBRACK expressionList[true]? RBRACK
;

namedPropertyArgs
: QUESTION? LBRACK (namedPropertyArgList | COLON) RBRACK
;

primary
:
  // Append `typeArguments?` to `identifier` to support constructor reference with generics, e.g.
  // HashMap<String, Integer>::new
  // Though this is not a graceful solution, it is much faster than replacing `builtInType`
  // with `type`
  identifier typeArguments?                                #identifierPrmrAlt
| literal                                                  #literalPrmrAlt
| gstring                                                  #gstringPrmrAlt
| NEW nls creator[0]                                     #newPrmrAlt
| THIS                                                    #thisPrmrAlt
| SUPER                                                  #superPrmrAlt
| parExpression                                           #parenPrmrAlt
| closureOrLambdaExpression                             #closureOrLambdaExpressionPrmrAlt
| list                                                    #listPrmrAlt
| map                                                    #mapPrmrAlt
| builtInType                                            #builtInTypePrmrAlt
;

namedPropertyArgPrimary
options { baseContext = primary; }
: identifier                                              #identifierPrmrAlt
| literal                                                #literalPrmrAlt
| gstring                                                #gstringPrmrAlt
| parExpression                                          #parenPrmrAlt
;

namedArgPrimary
options { baseContext = primary; }
: identifier                                              #identifierPrmrAlt
| literal                                                #literalPrmrAlt
|
gstring                                                  #gstringPrmrAlt
;

commandPrimary
options { baseContext = primary; }
: identifier                                              #identifierPrmrAlt
| literal                                                #literalPrmrAlt
| gstring                                                #gstringPrmrAlt
;

```

list  
: LBRACK expressionList[true]? COMMA? RBRACK  
;

map  
: LBRACK  
  ( mapEntryList COMMA?  
  | COLON  
  )  
  RBRACK  
;

mapEntryList  
: mapEntry (COMMA mapEntry)\*  
;

namedPropertyArgList  
options { baseContext = mapEntryList; }  
: namedPropertyArg (COMMA namedPropertyArg)\*  
;

mapEntry  
: mapEntryLabel COLON nls expression  
| MUL COLON nls expression  
;

namedPropertyArg  
options { baseContext = mapEntry; }  
: namedPropertyArgLabel  
COLON nls expression  
| MUL COLON nls expression  
;

namedArg  
options { baseContext = mapEntry; }  
: namedArgLabel COLON nls expression  
| MUL COLON nls expression  
;

mapEntryLabel  
: keywords  
| primary  
;

namedPropertyArgLabel  
options { baseContext = mapEntryLabel; }  
: keywords

```

    | namedPropertyArgPrimary
    ;

namedArgLabel
options { baseContext = mapEntryLabel; }
: keywords
| namedArgPrimary
;

/**
 * t 0: general creation; 1: non-static inner class creation
 */
creator[int t]
: createdName
  ( nls arguments anonymousInnerClassDeclaration[0]?
  | dim+ (nls arrayInitializer)?
  )
;

dim
: annotationsOpt LBRACK expression? RBRACK
;

arrayInitializer
: LBRACE nls (variableInitializers nls)? RBRACE
;

/**
 * t 0: anonymous inner class; 1: anonymous enum
 */
anonymousInnerClassDeclaration[int t]
: classBody[0]
;

createdName
: annotationsOpt

( primitiveType
  | qualifiedClassName typeArgumentsOrDiamond?
  )
;

nonWildcardTypeArguments
: LT nls typeList nls GT
;

typeArgumentsOrDiamond
: LT GT

```

```

| typeArguments
;

arguments
: LPAREN enhancedArgumentListInPar? COMMA? rparen
;

argumentList
options { baseContext = enhancedArgumentListInPar; }
: firstArgumentListElement
  ( COMMA nls
    argumentListElement
  )*
;

enhancedArgumentList
options { baseContext = enhancedArgumentListInPar; }
: firstEnhancedArgumentListElement
  ( COMMA nls
    enhancedArgumentListElement
  )*
;

enhancedArgumentListInPar
: enhancedArgumentListElement
  ( COMMA nls
    enhancedArgumentListElement
  )*
;

firstArgumentListElement
options { baseContext = enhancedArgumentListElement; }
: expressionListElement[true]
| namedArg
;

argumentListElement
options { baseContext = enhancedArgumentListElement; }
}
: expressionListElement[true]
| namedPropertyArg
;

firstEnhancedArgumentListElement
options { baseContext = enhancedArgumentListElement; }
: expressionListElement[true]
| standardLambdaExpression
| namedArg

```

```
;
enhancedArgumentListElement
: expressionListElement[true]
| standardLambdaExpression
| namedPropertyArg
;
```

```
stringLiteral
: StringLiteral
;
```

```
className
: CapitalizedIdentifier
;
```

```
identifier
: Identifier
| CapitalizedIdentifier
| VAR
| IN
// | DEF
| TRAIT
| AS
;
```

```
builtInType
: BuiltInPrimitiveType
| VOID
;
```

```
keywords
: ABSTRACT
| AS
| ASSERT
| BREAK
| CASE
| CATCH
| CLASS
| CONST
| CONTINUE
| DEF
| DEFAULT
| DO
| ELSE
| ENUM
| EXTENDS
| FINAL
```

| FINALLY  
| FOR  
| GOTO  
| IF  
| IMPLEMENTS  
| IMPORT  
| IN  
| INSTANCEOF  
| INTERFACE  
| NATIVE  
| NEW  
| PACKAGE  
| RETURN  
| STATIC  
| STRICTFP  
| SUPER  
| SWITCH  
| SYNCHRONIZED  
| THIS  
| THROW  
| THROWS  
| TRANSIENT  
| TRAIT  
| THREADSAFE  
| TRY  
| VAR  
| VOLATILE  
| WHILE

| NullLiteral  
| BooleanLiteral

| BuiltInPrimitiveType  
| VOID

| PUBLIC  
| PROTECTED  
| PRIVATE

;

rparen  
: RPAREN  
;

nls  
: NL\*  
;

sep : (NL | SEMI)+

;

Found in path(s):

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/GroovyParser.g4

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Found in path(s):

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/apache/groovy/metaclass/MetaClass.java

\*

/opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/Tuple1.java

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/ast/ModifierNode.java

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/reflection/ReflectionCache.java

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/runtime/ProcessGroovyMethods.java

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/BooleanArrayGetAtMetaMethod.java

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/transform/Trait.java

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/classgen/ClassGenerator.java

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/ast/expr/MapEntryExpression.java

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/tools/javac/MemJavaFileObject.java

\*

/opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/ReverseListIterator.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/transform/ThreadInterruptibleASTTransformation.groovy  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/util/IndentPrinter.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/callsite/PojoMetaMethodSite.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/control/io/ReaderSource.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/io/GroovyPrintStream.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/MetaMethod.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/antlr/treewalker/PreOrderTraversal.java  
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 jar/org/apache/groovy/parser/antlr4/Antlr4ParserPlugin.java  
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 jar/org/codehaus/groovy/util/ReferenceType.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/vmplugin/v7/IndyGuardsFiltersAndSignatures.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/antlr/java/Java2GroovyMain.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/IntRange.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/callsite/BooleanReturningMethodInvoker.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/ast/decompiled/TypeSignatureParser.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/control/io/NullWriter.java  
 \*  
 /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/transform/stc/ThirdParam.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/classgen/AnnotationVisitor.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/reflection/stdclasses/LongCachedClass.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/groovy/lang/GroovyResourceLoader.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/tools/FileSystemCompiler.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/transform/stc/TraitTypeCheckingExtension.java  
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 jar/groovy/transform/stc/MapEntryOrKeyValue.java  
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 jar/org/codehaus/groovy/classgen/asm/InvocationWriter.java

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/control/messages/Message.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/ast/tools/ClassNodeUtils.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/util/FastArray.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/MutableMetaClass.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/ast/expr/BinaryExpression.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/tools/GroovyStarter.java  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/util/ManagedConcurrentLinkedQueue.java  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/transform/sc/transformers/CastExpressionOptimizer.java  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/transform/ImmutableOptions.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/util/IntArrayIterable.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/transform/Immutable.groovy  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
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 jar/org/codehaus/groovy/vmplugin/v5/JUnit4Utils.java  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/transform/TypeChecked.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/time/TimeDuration.java  
 \*  
 /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/ui/GroovyMain.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/ast/Parameter.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/ast/stmt/AssertStatement.java

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/transform/stc/AbstractTypeCheckingExtension.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/ast/expr/CastExpression.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/groovy/lang/MissingClassException.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/ast/expr/UnaryMinusExpression.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/time/BaseDuration.java  
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 /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/tools/javac/RawJavaFileObject.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/callsite/ConstructorMetaClassSite.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/apache/groovy/lang/annotation/Incubating.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/ast/expr/UnaryPlusExpression.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/transform/BaseScriptASTTransformation.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/dgmimpl/arrays/CharacterArrayPutAtMetaMethod.java  
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 jar/groovy/beans/BindableASTTransformation.java  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/transform/Canonical.groovy  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
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 jar/org/codehaus/groovy/ast/expr/PrefixExpression.java  
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jar/org/codehaus/groovy/classgen/EnumCompletionVisitor.java
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* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/MetaClassRegistry.java
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* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
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* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/Tuple6.java
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* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/classgen/genArrayUtil.groovy
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/runtime/callsite/CallSiteClassLoader.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/antlr/java/Java2GroovyProcessor.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesStatementWriter.java

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\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/transform/AbstractInterruptibleASTTransformation.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/ScriptBytecodeAdapter.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/util/Finalizable.java  
 \*  
 /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ByteArrayGetAtMetaMethod.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/reflection/GeneratedMetaMethod.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/transform/stc/FromString.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/groovy/lang/MissingPropertyException.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/control/customizers/builder/ASTTransformationCustomizerFactory.groovy  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/dgmimpl/NumberNumberDiv.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/ast/builder/AstBuilderTransformation.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/metaclass/ClosureMetaMethod.java  
 \*  
 /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/transform/ExternalizeMethodsASTTransformation.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/util/OrderBy.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/transform/NullCheck.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/control/io/URLReaderSource.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/transform/WithWriteLock.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/util/Factory.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/m12n/MetaInfExtensionModule.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/Groovydoc.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/apache/groovy/internal/util/UnicodeConst.java  
 \*  
 /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/PropertyValue.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/ArrayUtil.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/transform/sc/transformers/ClosureExpressionTransformer.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/transform/sc/transformers/CompareIdentityExpression.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/SpreadMap.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/metaclass/MixedInMetaClass.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-

jar/org/apache/groovy/ast/tools/AnnotatedNodeUtils.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/EncodingGroovyMethodsSupport.java  
 \*  
 /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/reflection/v7/GroovyClassValueJava7.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/vmplugin/v8/IndyArrayAccess.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/Grab.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/groovy/transform/ThreadInterrupt.groovy  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/ast/expr/TupleExpression.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/util/TripleKeyHashMap.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/transform/CompileDynamicProcessor.java  
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 jar/org/codehaus/groovy/ast/decompiled/AsmDecompiler.java  
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 /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/ExpandoMetaClass.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/memoize/LRUCache.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/groovy/transform/ExternalizeMethods.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/classgen/BytecodeExpression.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/util/LongArrayIterator.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/transform/stc/TypeCheckingContext.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/control/SourceExtensionHandler.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/transform/AutoCloneStyle.java  
 \*  
 /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/transform/MapConstructorASTTransformation.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/transform/SynchronizedASTTransformation.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/tools/shell/util/MessageSource.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/control/CompilePhase.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/wrappers/Wrapper.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/callsite/PerInstancePojoMetaClassSite.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/util/NodeList.java

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* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/classgen/asm/MopWriter.java
*
/opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/runtime/GStringImpl.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/classgen/asm/WriterController.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/runtime/metaclass/MethodHelper.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/ui/GroovySocketServer.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/ast/expr/BitwiseNegationExpression.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/util/logging/Log4j2.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/classgen/asm/OptimizingStatementWriter.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/groovy/transform/KnownImmutable.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/Tuple4.java
*
/opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/util/GroovyCollections.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/util/CharArrayIterator.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/vmplugin/VMPluginFactory.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/runtime/MethodKey.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesCallSiteWriter.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/groovy/transform/stc/IncorrectTypeHintException.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/ast/MethodNode.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/runtime/callsite/NullCallSite.java
*
/opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/antlr/treewalker/TraversalHelper.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/FloatArrayPutAtMetaMethod.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/tools/Compiler.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/classgen/asm/MethodCaller.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/runtime/metaclass/ReflectorLoader.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/runtime/MethodRankHelper.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-

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jar/org/codehaus/groovy/runtime/RangeInfo.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/runtime/ArrayTypeUtils.java
*
/opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/control/ParserPluginFactory.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/classgen/asm/BinaryExpressionWriter.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/transform/stc/ExtensionMethodNode.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/runtime/wrappers/FloatWrapper.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/syntax/Numbers.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/cli/CliBuilderException.groovy
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/classgen/VerifierCodeVisitor.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/reflection/stdclasses/CachedSAMClass.java
*
/opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/groovy/lang/SpreadListEvaluatingException.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/control/messages/SyntaxErrorMessage.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/groovy/transform/AnnotationCollectorMode.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/runtime/m12n/ExtensionModule.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/transform/TailRecursive.groovy
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/util/BooleanArrayIterator.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/vmplugin/v9/Java9.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/ListWithDefault.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/runtime/ScriptReference.java
*
/opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/transform/PackageScopeASTTransformation.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/control/ASTTransformationsContext.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/runtime/memoize/LRUProtectionStorage.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/reflection/AccessPermissionChecker.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/beans/Bindable.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/antlr/treewalker/Visitor.java

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\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/runtime/ConvertedMap.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/transform/EqualsAndHashCode.java  
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 /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/transform/NullCheckASTTransformation.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/grape/Grape.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/io/GroovyPrintWriter.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/MetaClass.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/runtime/callsite/PogoGetPropertySite.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/transform/trait/TraitASTTransformation.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/classgen/asm/MethodPointerExpressionWriter.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/runtime/callsite/GetEffectivePojoPropertySite.java  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/runtime/ConvertedClosure.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/classgen/asm/StatementMetaTypeChooser.java  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/syntax/ParserException.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/transform/stc/TypeCheckingExtension.java  
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 /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/ast/builder/AstSpecificationCompiler.groovy  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/antlr/UnicodeLexerSharedInputState.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/classgen/asm/TypeChooser.java  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/util/ScriptException.java  
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jar/org/codehaus/groovy/control/OptimizerVisitor.java  
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 jar/org/codehaus/groovy/util/ShortArrayIterator.java  
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 jar/org/codehaus/groovy/ast/GroovyClassVisitor.java  
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 jar/org/codehaus/groovy/transform/AbstractASTTransformation.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/GroovyClassLoader.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
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 jar/org/codehaus/groovy/runtime/dgmimpl/arrays/DoubleArrayPutAtMetaMethod.java  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/control/io/InputStreamReaderSource.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/control/io/StringReaderSource.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
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 jar/groovy/transform/AnnotationCollector.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/Tuple.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/metaclass/ConcurrentReaderHashMap.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/vmplugin/v9/ClassFinder.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/groovydoc/Groovydoc.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/util/NodePrinter.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/MetaObjectProtocol.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
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 jar/groovy/transform/PackageScopeTarget.java  
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 jar/org/codehaus/groovy/control/messages/SimpleMessage.java  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/transform/stc/Receiver.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-

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jar/org/codehaus/groovy/transform/stc/SecondPassExpression.java
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* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/reflection/stdclasses/BooleanCachedClass.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/apache/groovy/parser/antlr4/ModifierManager.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
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* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/util/ListBufferedIterator.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
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* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/transform/CompileStatic.java
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/opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
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* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
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* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/transform/PackageScope.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/runtime/metaclass/MissingPropertyExceptionNoStack.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/transform/NamedDelegate.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/GroovyObjectSupport.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
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jar/org/codehaus/groovy/ast/expr/DeclarationExpression.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
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* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
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* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/transform/ReadWriteLockASTTransformation.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
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* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
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jar/org/codehaus/groovy/classgen/asm/CompileStack.java
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ByteArrayPutAtMetaMethod.java
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/classgen/FinalVariableAnalyzer.java  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/ast/GroovyCodeVisitor.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/Tuple14.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/util/logging/Log4j.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/MetaClassImpl.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/GrabExclude.java  
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 /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/apache/groovy/plugin/DefaultRunners.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/runtime/m12n/ExtensionModuleScanner.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/runtime/ConversionHandler.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/antlr/java/PreJava2GroovyConverter.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/transform/options/PropertyHandler.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/util/DoubleArrayIterator.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/ast/TransformingCodeVisitor.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/apache/groovy/parser/antlr4/AbstractLexer.java  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/classgen/asm/UnaryExpressionHelper.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/apache/groovy/parser/antlr4/internal/atnmanager/ParserAtnManager.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/transform/ASTTransformationCollectorCodeVisitor.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/ast/ImportNode.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/transform/stc/StaticTypeCheckingVisitor.java

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/apache/groovy/util/SystemUtil.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/DelegatingMetaClass.java  
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 /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/PropertyAccessInterceptor.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/ast/stmt/ForStatement.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/ast/expr/VariableExpression.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/ast/expr/SpreadMapExpression.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/transform/BaseScript.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/runtime/metaclass/ThreadManagedMetaBeanProperty.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/Tuple9.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/GroovyInterceptable.java  
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 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/tools/RootLoader.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/classgen/asm/BinaryIntExpressionHelper.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/transform/MemoizedASTTransformation.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/xml/QName.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/GroovyCallable.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/transform/tailrec/ReturnStatementToIterationConverter.groovy  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/cli/internal/OptionAccessor.groovy  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/util/AbstractConcurrentMap.java  
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 /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/runtime/NumberAwareComparator.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/transform/tailrec/InWhileLoopWrapper.groovy  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/IncorrectClosureArgumentsException.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/ast/expr/ClosureExpression.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/Mixin.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/Script.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/runtime/metaclass/MissingMethodExecutionFailed.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/ast/stmt/IfStatement.java  
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/opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/DateGroovyMethods.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/transform/TimedInterruptibleASTTransformation.groovy  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/dgmimpl/NumberNumberPlus.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/classgen/asm/sc/StaticCompilationMopWriter.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/antlr/treewalker/SourcePrinter.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/transform/trait/TraitComposer.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/ast/InterfaceHelperClassNode.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/transform/stc/ExtensionMethodCache.java  
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 /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/ast/NodeMetaDataHandler.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/vmplugin/VMPlugin.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/classgen/asm/BinaryObjectExpressionHelper.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/groovy/io/EncodingAwareBufferedWriter.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/util/DoubleArrayIterable.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/callsite/GetEffectivePogoPropertySite.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/transform/sc/StaticCompilationMetadataKeys.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesUnaryExpressionHelper.java  
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 /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/classgen/asm/sc/StaticPropertyAccessHelper.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/MetaBeanProperty.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/antlr/LineColumn.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/memoize/StampedCommonCache.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/Tuple0.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/DefaultGroovyMethods.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/ast/decompiled/DecompiledClassNode.java  
 \* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
 jar/org/codehaus/groovy/runtime/dgmimpl/arrays/LongArrayGetAtMetaMethod.java

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/opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/ast/expr/AttributeExpression.java  
\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/grape/GrabAnnotationTransformation.java  
\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/antlr/treewalker/VisitorAdapter.java  
\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/util/ClosureComparator.java  
\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/runtime/InvokerHelper.java  
\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/control/ResolveVisitor.java  
\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/util/LongArrayIterable.java  
\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/vmplugin/v8/MethodHandleWrapper.java  
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/opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/ast/expr/ClassExpression.java  
\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/runtime/callsite/PogoMetaMethodSite.java  
\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/antlr/GroovySourceToken.java  
\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/util/PermutationGenerator.java  
\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/classgen/asm/indy/sc/IndyStaticTypesMultiTypeDispatcher.java  
\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/classgen/asm/indy/InvokeDynamicWriter.java  
\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/reflection/GroovyClassValuePreJava7.java  
\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/lang/Tuple11.java  
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/opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/groovy/transform/stc/ClosureSignatureConflictResolver.java  
\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/tools/StringHelper.java

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\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/package-info.java  
\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/LinkedDeque.java  
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jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weighers.java  
\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/ConcurrentLinkedHashMap.java  
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jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weigher.java  
\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-  
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EvictionListener.java  
No license file was found, but licenses were detected in source scan.

/\*\* Java 1.5 Recognizer

\*  
\* Run 'java Main [-showtree] directory-full-of-java-files'  
\*  
\* [The -showtree option pops up a Swing frame that shows  
\* the AST constructed from the parser.]  
\*

- \* Run 'java Main <directory full of java files>'
- \*
- \* Contributing authors:
- \* Jeremy Rayner groovy@ross-rayner.com
- \* John Mitchell johnm@non.net
- \* Terence Parr parrt@magelang.com
- \* John Lilley jlilley@empathy.com
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- \* Peter Williams pete.williams@sun.com
- \* Allan Jacobs Allan.Jacobs@eng.sun.com
- \* Steve Messick messick@redhills.com
- \* John Pybus john@pybus.org
- \*
- \* Version 1.00 December 9, 1997 -- initial release
- \* Version 1.01 December 10, 1997
- \* fixed bug in octal def (0..7 not 0..8)
- \* Version 1.10 August 1998 (parrt)
- \* added tree construction
- \* fixed definition of WS,comments for mac,pc,unix newlines
- \* added unary plus
- \* Version 1.11 (Nov 20, 1998)
- \* Added "shutup" option to turn off last ambig warning.
- \* Fixed inner class def to allow named class defs as statements
- \* synchronized requires compound not simple statement
- \* add [] after builtInType DOT class in primaryExpression
- \* "const" is reserved but not valid..removed from modifiers
- \* Version 1.12 (Feb 2, 1999)
- \* Changed LITERAL\_XXX to xxx in tree grammar.
- \* Updated java.g to use tokens {...} now for 2.6.0 (new feature).
- \*
- \* Version 1.13 (Apr 23, 1999)
- \* Didn't have (stat)? for else clause in tree parser.
- \* Didn't gen ASTs for interface extends. Updated tree parser too.
- \* Updated to 2.6.0.
- \* Version 1.14 (Jun 20, 1999)
- \* Allowed final/abstract on local classes.
- \* Removed local interfaces from methods
- \* Put instanceof precedence where it belongs...in relationalExpr
- \* It also had expr not type as arg; fixed it.
- \* Missing ! on SEMI in classBlock
- \* fixed: (expr) + "string" was parsed incorrectly  
(+ as unary plus).
- \* fixed: didn't like Object[].class in parser or tree parser
- \* Version 1.15 (Jun 26, 1999)
- \* Screwed up rule with instanceof in it. :( Fixed.
- \* Tree parser didn't like (expr).something; fixed.
- \* Allowed multiple inheritance in tree grammar. oops.

- \* Version 1.16 (August 22, 1999)
- \* Extending an interface built a wacky tree: had extra EXTENDS.
- \* Tree grammar didn't allow multiple superinterfaces.
- \* Tree grammar didn't allow empty var initializer: { }
- \* Version 1.17 (October 12, 1999)
- \* ESC lexer rule allowed 399 max not 377 max.
- \* java.tree.g didn't handle the expression of synchronized statements.
- \* Version 1.18 (August 12, 2001)
- \* Terence updated to Java 2 Version 1.3 by observing/combining work of Allan Jacobs and Steve Messick. Handles 1.3 src. Summary:
  - \* o primary didn't include boolean.class kind of thing
  - \* o constructor calls parsed explicitly now:
    - \* see explicitConstructorInvocation
  - \* o add strictfp modifier
    - \* o missing objBlock after new expression in tree grammar
    - \* o merged local class definition alternatives, moved after declaration
    - \* o fixed problem with ClassName.super.field
    - \* o reordered some alternatives to make things more efficient
    - \* o long and double constants were not differentiated from int/float
    - \* o whitespace rule was inefficient: matched only one char
    - \* o add an examples directory with some nasty 1.3 cases
    - \* o made Main.java use buffered IO and a Reader for Unicode support
    - \* o supports UNICODE?
      - \* Using Unicode charVocabulay makes code file big, but only in the bitsets at the end. I need to make ANTLR generate unicode bitsets more efficiently.
- \* Version 1.19 (April 25, 2002)
- \* Terence added in nice fixes by John Pybus concerning floating constants and problems with super() calls. John did a nice reorg of the primary/postfix expression stuff to read better and makes f.g.super() parse properly (it was METHOD\_CALL not a SUPER\_CTOR\_CALL). Also:
  - \* o "finally" clause was a root...made it a child of "try"
  - \* o Added stuff for asserts too for Java 1.4, but \*commented out\* as it is not backward compatible.
- \* Version 1.20 (October 27, 2002)
- \* Terence ended up reorging John Pybus' stuff to remove some nondeterminisms and some syntactic predicates. Note that the grammar is stricter now; e.g., this(...) must be the first statement.

- \* Ternary ?: operator wasn't working as array name:
- \* (isBig ? bigDigits : digits)[i];
- \*
- \* Checked parser/tree parser on source for
- \* Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
- \* and the 110k-line jGuru server source.
- \*
- \* Version 1.21 (October 17, 2003)
- \* Fixed lots of problems including:
- \* Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
- \* He found a problem/fix with floating point that start with 0
- \* Ray also fixed problem that (int.class) was not recognized.
- \* Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
- \* TJP fixed CHAR\_LITERAL analogously.
- \*
- \* Version 1.21.2 (March, 2003)
- \* Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
- \* Notes:
- \* o We only allow the "extends" keyword and not the "implements"
- \* keyword, since that's what JSR14 seems to imply.
- \* o Thanks to Monty Zukowski for his help on the antlr-interest
- \* mail list.
- \* o Thanks to Alan Eliassen for testing the grammar over his
- \* Fink source base
- \*
- \* Version 1.22 (July, 2004)
- \* Changes by Michael Studman to support Java 1.5 language extensions
- \* Notes:
- \* o Added support for annotations types
- \* o Finished off Matt Quail's generics enhancements to support bound type arguments
- \* o Added support for new for statement syntax
- \* o Added support for static import syntax
- \* o Added support for enum types
- \* o Tested against JDK 1.5 source base and source base of jdigraph project
- \* o Thanks to Matt Quail
- for doing the hard part by doing most of the generics work
- \*
- \* Version 1.22.1 (July 28, 2004)
- \* Bug/omission fixes for Java 1.5 language support
- \* o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for
- \* spotting this
- \* o Fixed bug where incorrect handling of SR and BSR tokens would cause type
- \* parameters to be recognised as type arguments.
- \* o Enabled type parameters on constructors, annotations on enum constants
- \* and package definitions
- \* o Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua
- \*
- \* Version 1.22.2 (July 28, 2004)

- \* Slight refactoring of Java 1.5 language support
- \* o Refactored for/"foreach" productions so that original literal "for" literal
- \* is still used but the for sub-clauses vary by token type
- \* o Fixed bug where type parameter was not included in generic constructor's branch of AST
- \*
- \* Version 1.22.3 (August 26, 2004)
- \* Bug fixes as identified by Michael Stahl; clean up of tabs/spaces
- \* and other refactorings
- \* o Fixed typeParameters omission in identPrimary and newStatement
- \* o Replaced GT reconciliation code with simple semantic predicate
- \* o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
- \* o Refactored typeDefinition production and field productions to reduce duplication
- \*
- \* Version 1.22.4 (October 21, 2004)
- \* Small bux fixes
- \* o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
- \* o Added typeArguments to postfixExpression productions for anonymous inner class super
- \* constructor invocation, e.g. new Outer().<String>super()
- \* o Fixed bug in array declarations identified by Geoff Roy
- \*
- \* Version 1.22.4.j.1
- \* Changes by Jeremy Rayner to support java2groovy tool
- \* o I have taken java.g for Java 1.5 from Michael Studman (1.22.4)
- \* and have made some changes to enable use by java2groovy tool (Jan 2007)
- \*
- \* Based on an original grammar released in the PUBLIC DOMAIN
- \*/

Found in path(s):

\* /opt/cola/permits/1223665761\_1635937334.8/0/groovy-3-0-9-sources-jar/org/codehaus/groovy/antlr/java/JavaRecognizer.java

No license file was found, but licenses were detected in source scan.

/\*

- \* This file is adapted from the Antlr4 Java grammar which has the following license
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*/
```

```
/**
```

```
* The Groovy grammar is based on the official grammar for Java:
* https://github.com/antlr/grammars-v4/blob/master/java/Java.g4
```

```
*/
```

```
lexer grammar GroovyLexer;
```

```
options {
    superClass = AbstractLexer;
}
```

```
@header {
    import java.util.Deque;
    import java.util.ArrayDeque;
    import java.util.Map;
    import java.util.HashMap;
    import java.util.Set;
    import java.util.HashSet;
    import java.util.Collections;
    import java.util.Arrays;
    import java.util.stream.IntStream;
    import java.util.logging.Logger;
    import java.util.logging.Level;
    import java.util.EmptyStackException;
    import org.apache.groovy.util.Maps;
    import static org.apache.groovy.parser.antlr4.SemanticPredicates.*;
}
```

```
@members {
    private static final
Logger LOGGER = Logger.getLogger(GroovyLexer.class.getName());

    private boolean errorIgnored;
```

```

private long tokenIndex;
private int lastTokenType;
private int invalidDigitCount;

/**
 * Record the index and token type of the current token while emitting tokens.
 */
@Override
public void emit(Token token) {
    this.tokenIndex++;

    int tokenType = token.getType();
    if (Token.DEFAULT_CHANNEL == token.getChannel()) {
        this.lastTokenType = tokenType;
    }

    if (RollBackOne == tokenType) {
        this.rollbackOneChar();
    }

    super.emit(token);
}

private static final int[] REGEX_CHECK_ARRAY = {
    DEC,
    INC,
    THIS,
    RBRACE,
    RBRACK,
    RPAREN,
    GStringEnd,
    NullLiteral,
    StringLiteral,
    BooleanLiteral,
    IntegerLiteral,
    FloatingPointLiteral,
    Identifier, CapitalizedIdentifier
};
static {

    Arrays.sort(REGEX_CHECK_ARRAY);
}

private boolean isRegexAllowed() {
    return (Arrays.binarySearch(REGEX_CHECK_ARRAY, this.lastTokenType) < 0);
}

/**

```

```

* just a hook, which will be overridden by GroovyLangLexer
*/
protected void rollbackOneChar() {}

private static class Paren {
    private String text;
    private int lastTokenType;
    private int line;
    private int column;

    public Paren(String text, int lastTokenType, int line, int column) {
        this.text = text;
        this.lastTokenType = lastTokenType;
        this.line = line;
        this.column = column;
    }

    public String getText() {
        return this.text;
    }

    public int getLastTokenType() {
        return this.lastTokenType;
    }

    public int getLine() {
        return line;
    }

    public int getColumn() {
        return column;
    }

    @Override

    public int hashCode() {
        return (int) (text.hashCode() * line + column);
    }

    @Override
    public boolean equals(Object obj) {
        if (!(obj instanceof Paren)) {
            return false;
        }

        Paren other = (Paren) obj;

        return this.text.equals(other.text) && (this.line == other.line && this.column == other.column);
    }
}

```

```

    }
}

protected void enterParenCallback(String text) {}

protected void exitParenCallback(String text) {}

private final Deque<Paren> parenStack = new ArrayDeque<>(32);

private void enterParen() {
    String text = getText();
    enterParenCallback(text);

    parenStack.push(new Paren(text, this.lastTokenType, getLine(), getCharPositionInLine()));
}

private void exitParen() {
    String text = getText();
    exitParenCallback(text);

    Paren paren = parenStack.peek();
    if (null == paren) return;
    parenStack.pop();
}

private boolean isInsideParens() {
    Paren paren = parenStack.peek();

    // We just care about "(" and "[", inside which the new lines will be ignored.
    // Notice: the new lines between "{" and "}" can not be ignored.
    if (null == paren) {
        return false;
    }

    return ("(".equals(paren.getText()) && TRY != paren.getLastTokenType()) // we don't treat try-paren(i.e. try
(...) as parenthesis
        || "[".equals(paren.getText()));
}

private void ignoreTokenInsideParens() {
    if (!this.isInsideParens()) {
        return;
    }

    this.setChannel(Token.HIDDEN_CHANNEL);
}

private void ignoreMultiLineCommentConditionally() {
    if (!this.isInsideParens() && isFollowedByWhiteSpaces(_input)) {
        return;
    }
}

```

```

        this.setChannel(Token.HIDDEN_CHANNEL);
    }

    @Override
    public int getSyntaxErrorSource() {
        return GroovySyntaxError.LEXER;
    }

    @Override
    public int getErrorLine() {
        return getLine();
    }

    @Override
    public int getErrorColumn() {
        return getCharPositionInLine() + 1;
    }

    @Override
    public int popMode() {
        try {
            return super.popMode();
        } catch (EmptyStackException ignored) { // raised when parens are unmatched: too many ), ], or }
            if (LOGGER.isLoggable(Level.FINEST)) {
                LOGGER.finest(org.codehaus.groovy.runtime.DefaultGroovyMethods.asString(ignored));
            }
        }

        return Integer.MIN_VALUE;
    }

    private static boolean isJavaIdentifierStartAndNotIdentifierIgnorable(int codePoint) {
        return Character.isJavaIdentifierStart(codePoint) && !Character.isIdentifierIgnorable(codePoint);
    }

    private static boolean isJavaIdentifierPartAndNotIdentifierIgnorable(int codePoint) {
        return Character.isJavaIdentifierPart(codePoint) && !Character.isIdentifierIgnorable(codePoint);
    }

    public boolean
    isErrorIgnored() {
        return errorIgnored;
    }

    public void setErrorIgnored(boolean errorIgnored) {
        this.errorIgnored = errorIgnored;
    }

```

```
}
```

### // 3.10.5 String Literals

```
StringLiteral
```

```
: GStringQuotationMark DqStringCharacter* GStringQuotationMark  
| SqStringQuotationMark SqStringCharacter* SqStringQuotationMark  
| Slash { this.isRegexAllowed() && _input.LA(1) != '*' }? SlashyStringCharacter+ Slash
```

```
| TdqStringQuotationMark TdqStringCharacter* TdqStringQuotationMark  
| TsqStringQuotationMark TsqStringCharacter* TsqStringQuotationMark  
| DollarSlashyGStringQuotationMarkBegin DollarSlashyStringCharacter+
```

```
DollarSlashyGStringQuotationMarkEnd
```

```
;
```

```
GStringBegin
```

```
: GStringQuotationMark DqStringCharacter* Dollar -> pushMode(DQ_GSTRING_MODE),  
pushMode(GSTRING_TYPE_SELECTOR_MODE)
```

```
;
```

```
TdqGStringBegin
```

```
: TdqStringQuotationMark TdqStringCharacter* Dollar -> type(GStringBegin),  
pushMode(TDQ_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
```

```
;
```

```
SlashyGStringBegin
```

```
: Slash { this.isRegexAllowed() && _input.LA(1) != '*' }? SlashyStringCharacter* Dollar {  
isFollowedByJavaLetterInGString(_input) }? -> type(GStringBegin), pushMode(SLASHY_GSTRING_MODE),  
pushMode(GSTRING_TYPE_SELECTOR_MODE)
```

```
;
```

```
DollarSlashyGStringBegin
```

```
: DollarSlashyGStringQuotationMarkBegin DollarSlashyStringCharacter* Dollar {  
isFollowedByJavaLetterInGString(_input) }? -> type(GStringBegin),  
pushMode(DOLLAR_SLASHY_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
```

```
;
```

```
mode DQ_GSTRING_MODE;
```

```
GStringEnd
```

```
: GStringQuotationMark -> popMode
```

```
;
```

```
GStringPart
```

```
: Dollar -> pushMode(GSTRING_TYPE_SELECTOR_MODE)
```

```
;
```

```
GStringCharacter
```

```
: DqStringCharacter -> more
```

```
;
```

```
mode TDQ_GSTRING_MODE;
```

```
TdqGStringEnd
```

```
: TdqStringQuotationMark -> type(GStringEnd), popMode
```

```

;
TdqGStringPart
: Dollar -> type(GStringPart), pushMode(GSTRING_TYPE_SELECTOR_MODE)
;
TdqGStringCharacter
: TdqStringCharacter
-> more
;

mode SLASHY_GSTRING_MODE;
SlashyGStringEnd
: Dollar? Slash -> type(GStringEnd), popMode
;
SlashyGStringPart
: Dollar { isFollowedByJavaLetterInGString(_input) }? -> type(GStringPart),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
;
SlashyGStringCharacter
: SlashyStringCharacter -> more
;

mode DOLLAR_SLASHY_GSTRING_MODE;
DollarSlashyGStringEnd
: DollarSlashyGStringQuotationMarkEnd -> type(GStringEnd), popMode
;
DollarSlashyGStringPart
: Dollar { isFollowedByJavaLetterInGString(_input) }? -> type(GStringPart),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
;
DollarSlashyGStringCharacter
: DollarSlashyStringCharacter -> more
;

mode GSTRING_TYPE_SELECTOR_MODE;
GStringLBrace
: '{' { this.enterParen(); } -> type(LBRACE), popMode, pushMode(DEFAULT_MODE)
;
GStringIdentifier
: IdentifierInGString -> type(Identifier), popMode, pushMode(GSTRING_PATH_MODE)
;

mode GSTRING_PATH_MODE;
GStringPathPart

: Dot IdentifierInGString
;
RollBackOne

```

```

: . {
    // a trick to handle GStrings followed by EOF properly
    int readChar = _input.LA(-1);
    if (EOF == _input.LA(1) && ("" == readChar || '/' == readChar)) {
        setType(GStringEnd);
    } else {
        setChannel(HIDDEN);
    }
} -> popMode
;

mode DEFAULT_MODE;
// character in the double quotation string. e.g. "a"
fragment
DqStringCharacter
: ~["\r\n\\$]
| EscapeSequence
;

// character in the single quotation string. e.g. 'a'
fragment
SqStringCharacter
: ~['\r\n\\]
| EscapeSequence
;

// character in the triple double quotation string. e.g. ""a""
fragment TdqStringCharacter
: ~["\\$]
| GStringQuotationMark { _input.LA(1) != "" || _input.LA(2) != "" || _input.LA(3) == "" && (_input.LA(4) != ""
|| _input.LA(5) != "") }?
| EscapeSequence
;

// character in the triple single quotation string.
e.g. 'a'
fragment TsqStringCharacter
: ~['\\]
| SqStringQuotationMark { _input.LA(1) != \" || _input.LA(2) != \" || _input.LA(3) == \" && (_input.LA(4) !=
\" || _input.LA(5) != \") }?
| EscapeSequence
;

// character in the slashy string. e.g. /a/
fragment SlashyStringCharacter
: SlashEscape
| Dollar { !isFollowedByJavaLetterInGString(_input) }?

```

```

| ~[/$\u0000]
;

// character in the dollar slashy string. e.g. $/a/$
fragment DollarSlashyStringCharacter
: DollarSlashEscape | DollarDollarEscape
| Slash { _input.LA(1) != '$' }?
| Dollar { !isFollowedByJavaLetterInGString(_input) }?
| ~[/$\u0000]
;

// Groovy keywords
AS      : 'as';
DEF     : 'def';
IN      : 'in';
TRAIT   : 'trait';
THREADSAFE : 'threadsafe'; // reserved keyword

// the reserved type name of Java10
VAR     : 'var';

// 3.9 Keywords
BuiltInPrimitiveType
: BOOLEAN
| CHAR
|
| BYTE
| SHORT
| INT
| LONG
| FLOAT
| DOUBLE
;

ABSTRACT : 'abstract';
ASSERT   : 'assert';

fragment
BOOLEAN : 'boolean';

BREAK   : 'break';

fragment
BYTE    : 'byte';

CASE    : 'case';
CATCH   : 'catch';

```

fragment  
CHAR : 'char';

CLASS : 'class';  
CONST : 'const';  
CONTINUE : 'continue';  
DEFAULT : 'default';  
DO : 'do';

fragment  
DOUBLE : 'double';

ELSE : 'else';  
ENUM : 'enum';  
EXTENDS : 'extends';  
FINAL : 'final';  
FINALLY : 'finally';

fragment  
FLOAT : 'float';

FOR : 'for';  
IF : 'if';  
GOTO : 'goto';  
IMPLEMENTS : 'implements';  
IMPORT : 'import';  
INSTANCEOF : 'instanceof';

fragment  
INT : 'int';

INTERFACE : 'interface';

fragment  
LONG : 'long';

NATIVE : 'native';  
NEW : 'new';  
PACKAGE : 'package';  
PRIVATE : 'private';  
PROTECTED  
: 'protected';  
PUBLIC : 'public';  
RETURN : 'return';

fragment  
SHORT : 'short';

```
STATIC      : 'static';
STRICTFP   : 'strictfp';
SUPER      : 'super';
SWITCH     : 'switch';
SYNCHRONIZED : 'synchronized';
THIS       : 'this';
THROW      : 'throw';
THROWS     : 'throws';
TRANSIENT  : 'transient';
TRY        : 'try';
VOID       : 'void';
VOLATILE   : 'volatile';
WHILE      : 'while';
```

```
// 3.10.1 Integer Literals
```

```
IntegerLiteral
```

```
  : ( DecimalIntegerLiteral
    | HexIntegerLiteral
    | OctalIntegerLiteral
    | BinaryIntegerLiteral
    )(Underscore { require(errorIgnored, "Number ending with underscores is invalid", -1, true); })?
```

```
  // !!! Error Alternative !!!
```

```
  | Zero ([0-9] { invalidDigitCount++; })+ { require(errorIgnored, "Invalid octal number", -(invalidDigitCount +
1), true); } IntegerTypeSuffix?
  ;
```

```
fragment
```

```
Zero
  : '0'
  ;
```

```
fragment
```

```
DecimalIntegerLiteral

  : DecimalNumeral IntegerTypeSuffix?
  ;
```

```
fragment
```

```
HexIntegerLiteral
  : HexNumeral IntegerTypeSuffix?
  ;
```

```
fragment
```

OctalIntegerLiteral  
: OctalNumeral IntegerTypeSuffix?  
;

fragment  
BinaryIntegerLiteral  
: BinaryNumeral IntegerTypeSuffix?  
;

fragment  
IntegerTypeSuffix  
: [LiIgG]  
;

fragment  
DecimalNumeral  
: Zero  
| NonZeroDigit (Digits? | Underscores Digits)  
;

fragment  
Digits  
: Digit (DigitOrUnderscore\* Digit)?  
;

fragment  
Digit  
: Zero  
| NonZeroDigit  
;

fragment  
NonZeroDigit  
: [1-9]  
;

fragment  
DigitOrUnderscore  
: Digit  
| Underscore  
;

fragment  
Underscores  
: Underscore+  
;

fragment

Underscore

: '\_'  
;

fragment

HexNumeral

: Zero [xX] HexDigits  
;

fragment

HexDigits

: HexDigit (HexDigitOrUnderscore\* HexDigit)?  
;

fragment

HexDigit

: [0-9a-fA-F]  
;

fragment

HexDigitOrUnderscore

: HexDigit  
| Underscore  
;

fragment

OctalNumeral

: Zero Underscores? OctalDigits  
;

fragment

OctalDigits

: OctalDigit (OctalDigitOrUnderscore\* OctalDigit)?  
;

fragment

OctalDigit

: [0-7]  
;

fragment

OctalDigitOrUnderscore

: OctalDigit  
| Underscore  
;

fragment

BinaryNumeral

```

: Zero [bB] BinaryDigits
;

fragment
BinaryDigits
: BinaryDigit (BinaryDigitOrUnderscore* BinaryDigit)?
;

fragment
BinaryDigit
: [01]
;

fragment
BinaryDigitOrUnderscore
: BinaryDigit
| Underscore
;

// 3.10.2 Floating-Point Literals

FloatingPointLiteral
: ( DecimalFloatingPointLiteral
| HexadecimalFloatingPointLiteral
) (Underscore { require(errorIgnored, "Number ending with underscores is invalid", -1, true); })?
;

fragment
DecimalFloatingPointLiteral
: Digits? Dot Digits ExponentPart? FloatTypeSuffix?
| Digits ExponentPart FloatTypeSuffix?
| Digits FloatTypeSuffix
;

fragment
ExponentPart
: ExponentIndicator
SignedInteger
;

fragment
ExponentIndicator
: [eE]
;

fragment
SignedInteger
: Sign? Digits

```

```

;

fragment
Sign
: [+|-]
;

fragment
FloatTypeSuffix
: [fFdDgG]
;

fragment
HexadecimalFloatingPointLiteral
: HexSignificand BinaryExponent FloatTypeSuffix?
;

fragment
HexSignificand
: HexNumeral Dot?
| Zero [xX] HexDigits? Dot HexDigits
;

fragment
BinaryExponent
: BinaryExponentIndicator SignedInteger
;

fragment
BinaryExponentIndicator
: [pP]
;

fragment
Dot : '.'
;

// 3.10.3 Boolean Literals

BooleanLiteral
: 'true'
| 'false'
;

// 3.10.6 Escape Sequences for Character and String Literals

fragment

```

EscapeSequence

```
: Backslash [btnfrs"\\]  
| OctalEscape  
| UnicodeEscape  
| DollarEscape  
| LineEscape  
;
```

fragment

OctalEscape

```
: Backslash OctalDigit  
| Backslash OctalDigit OctalDigit  
| Backslash ZeroToThree OctalDigit OctalDigit  
;
```

// Groovy allows 1 or more u's after the backslash

fragment

UnicodeEscape

```
: Backslash 'u' HexDigit HexDigit HexDigit HexDigit  
;
```

fragment

ZeroToThree

```
: [0-3]  
;
```

// Groovy Escape Sequences

fragment

DollarEscape

```
: Backslash Dollar  
;
```

fragment

LineEscape

```
: Backslash LineTerminator  
;
```

fragment

LineTerminator

```
: '\r'? '\n' | '\r'  
;
```

fragment

SlashEscape

```
: Backslash Slash  
;
```

fragment  
Backslash  
: '\\'  
;

fragment  
Slash  
: '/'  
;

fragment  
Dollar  
: '\$'  
;

fragment  
GStringQuotationMark  
: ''''  
;

fragment  
SqStringQuotationMark  
: '\"'  
;

fragment  
TdqStringQuotationMark  
: ''''''  
;

fragment  
TsqStringQuotationMark  
: '\\\\'  
;

fragment  
DollarSlashyGStringQuotationMarkBegin  
: '\$/'  
;

fragment  
DollarSlashyGStringQuotationMarkEnd  
: '/\$'  
;

fragment  
DollarSlashEscape

```

: '$/'
;

fragment
DollarDollarEscape
: '$$'
;

// 3.10.7
The Null Literal
NullLiteral
: 'null'
;

// Groovy Operators

RANGE_INCLUSIVE  : '..';
RANGE_EXCLUSIVE  : '..<';
SPREAD_DOT       : '*.';
SAFE_DOT         : '?.';
SAFE_CHAIN_DOT   : '??.';
ELVIS            : '?.';
METHOD_POINTER   : '.&';
METHOD_REFERENCE : '::';
REGEX_FIND       : '=~';
REGEX_MATCH      : '==~';
POWER            : '**';
POWER_ASSIGN     : '**=';
SPACESHIP        : '<=>';
IDENTICAL        : '===';
NOT_IDENTICAL    : '!===';
ARROW            : '->';

// !internalPromise will be parsed as !in ternalPromise, so semantic predicates are necessary
NOT_INSTANCEOF   : '!instanceof' { isFollowedBy(_input, '\t', '\r', '\n') }?;
NOT_IN           : '!in'      { isFollowedBy(_input, '\t', '\r', '\n', '[', '(', '{') }?;

// 3.11 Separators

LPAREN          : '(' { this.enterParen(); } -> pushMode(DEFAULT_MODE);
RPAREN          : ')' { this.exitParen(); } -> popMode;

LBRACE          : '{' { this.enterParen();
} -> pushMode(DEFAULT_MODE);
RBRACE          : '}' { this.exitParen(); } -> popMode;

LBRACK          : '[' { this.enterParen(); } -> pushMode(DEFAULT_MODE);

```

RBRACK : ']' { this.exitParen(); } -> popMode;

SEMI : ';';

COMMA : ',';

DOT : Dot;

// 3.12 Operators

ASSIGN : '=';

GT : '>';

LT : '<';

NOT : '!';

BITNOT : '~';

QUESTION : '?';

COLON : ':';

EQUAL : '==';

LE : '<=';

GE : '>=';

NOTEQUAL : '!=';

AND : '&&';

OR : '||';

INC : '++';

DEC : '--';

ADD : '+';

SUB : '-';

MUL : '\*';

DIV : Slash;

BITAND : '&';

BITOR : '|';

XOR : '^';

MOD : '%';

ADD\_ASSIGN : '+=';

SUB\_ASSIGN : '-=';

MUL\_ASSIGN : '\*=';

DIV\_ASSIGN : '/=';

AND\_ASSIGN :

'&=';

OR\_ASSIGN : '|=';

XOR\_ASSIGN : '^=';

MOD\_ASSIGN : '%=';

LSHIFT\_ASSIGN : '<<=';

RSHIFT\_ASSIGN : '>>=';

URSHIFT\_ASSIGN : '>>>=';

ELVIS\_ASSIGN : '?=';

// 3.8 Identifiers (must appear after all keywords in the grammar)

CapitalizedIdentifier

```
: JavaLetter { Character.isUpperCase(_input.LA(-1)) }? JavaLetterOrDigit*  
;
```

Identifier

```
: JavaLetter JavaLetterOrDigit*  
;
```

fragment

IdentifierInGString

```
: JavaLetterInGString JavaLetterOrDigitInGString*  
;
```

fragment

JavaLetter

```
: [a-zA-Z$_] // these are the "java letters" below 0x7F  
| // covers all characters above 0x7F which are not a surrogate  
~[\u0000-\u007F\uD800-\uDBFF]  
{ isJavaIdentifierStartAndNotIdentifierIgnorable(_input.LA(-1)) }?  
| // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF  
[\uD800-\uDBFF] [\uDC00-\uDFFF]  
{ Character.isJavaIdentifierStart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?  
  
;
```

fragment

JavaLetterInGString

```
: JavaLetter { _input.LA(-1) != '$' }?  
;
```

fragment

JavaLetterOrDigit

```
: [a-zA-Z0-9$_] // these are the "java letters or digits" below 0x7F  
| // covers all characters above 0x7F which are not a surrogate  
~[\u0000-\u007F\uD800-\uDBFF]  
{ isJavaIdentifierPartAndNotIdentifierIgnorable(_input.LA(-1)) }?  
| // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF  
[\uD800-\uDBFF] [\uDC00-\uDFFF]  
{ Character.isJavaIdentifierPart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?  
  
;
```

fragment

JavaLetterOrDigitInGString

```
: JavaLetterOrDigit { _input.LA(-1) != '$' }?  
;
```

fragment

```

ShCommand
  : ~[\r\n\uFFFF]*
  ;

//
// Additional symbols not defined in the lexical specification
//

AT : '@';
ELLIPSIS : '...';

//
// Whitespace, line escape and comments
//
WS : ([\t]+ | LineEscape+) -> skip
  ;

// Inside (...) and [...] but not {...}, ignore newlines.
NL : LineTerminator
  { this.ignoreTokenInsideParens(); }
  ;

// Multiple-line comments (including groovydoc comments)
ML_COMMENT
  : /*' .*? '*/ { this.ignoreMultiLineCommentConditionally(); } -> type(NL)
  ;

// Single-line comments
SL_COMMENT
  : /*' ~[\r\n\uFFFF]* { this.ignoreTokenInsideParens(); } -> type(NL)
  ;

// Script-header comments.
// The very first characters of the file may be "#!". If so, ignore the first line.
SH_COMMENT
  : '#!' { require(errorIgnored || 0 == this.tokenIndex, "Shebang comment should appear at the first line", -2, true); }
ShCommand (LineTerminator '#!' ShCommand)* -> skip
  ;

// Unexpected characters will be handled by groovy parser later.
UNEXPECTED_CHAR
  : . { require(errorIgnored, "Unexpected character: '" + getText().replace("'", "\'") + "'", -1, false); }
  ;

Found in path(s):
* /opt/cola/permits/1223665761_1635937334.8/0/groovy-3-0-9-sources-jar/GroovyLexer.g4

```

# 1.113 groovy-json 3.0.9

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#
org.apache.groovy.json.DefaultFastStringServiceFactory
```

Found in path(s):

```
* /opt/cola/permits/1223665998_1635937393.33/0/groovy-json-3-0-9-sources-jar/META-
INF/services/org.apache.groovy.json.FastStringServiceFactory
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```

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```

\*/

Found in path(s):

- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/org/apache/groovy/json/internal/CharacterSource.java
- \*
- /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/groovy/json/JsonBuilder.java
- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/org/apache/groovy/json/internal/Value.java
- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/org/apache/groovy/json/internal/Dates.java
- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/groovy/json/JsonDelegate.java
- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/org/apache/groovy/json/FastStringService.java
- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/org/apache/groovy/json/internal/CharScanner.java
- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/groovy/json/StringEscapeUtils.java
- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/org/apache/groovy/json/internal/Type.java
- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/org/apache/groovy/json/internal/ValueContainer.java
- \*
- /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/org/apache/groovy/json/DefaultFastStringServiceFactory.java
- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/groovy/json/StreamingJsonBuilder.java
- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/org/apache/groovy/json/internal/JsonParserCharArray.java
- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/org/apache/groovy/json/internal/LazyMap.java
- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/org/apache/groovy/json/internal/ByteScanner.java
- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/org/apache/groovy/json/internal/ValueList.java
- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/org/apache/groovy/json/DefaultFastStringService.java
- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/org/apache/groovy/json/internal/ValueMapImpl.java
- \*
- /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/org/apache/groovy/json/internal/JsonFastParser.java
- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/org/apache/groovy/json/internal/Exceptions.java
- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/groovy/json/JsonParserType.java
- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/org/apache/groovy/json/internal/JsonParserLax.java
- \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-

jar/org/apache/groovy/json/internal/ValueMap.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-  
 jar/org/apache/groovy/json/internal/CharBuf.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/groovy/json/JsonToken.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-  
 jar/org/apache/groovy/json/internal/Cache.java  
 \*  
 /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-  
 jar/org/apache/groovy/json/internal/Sys.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/groovy/json/JsonSlurper.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-  
 jar/org/apache/groovy/json/internal/JsonStringDecoder.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/groovy/json/JsonOutput.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/groovy/json/JsonParser.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/groovy/json/JsonTokenType.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/groovy/json/JsonException.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/groovy/json/JsonLexer.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-  
 jar/org/apache/groovy/json/internal/MapItemValue.java  
 \*  
 /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-  
 jar/groovy/json/JsonSlurperClassic.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-  
 jar/org/apache/groovy/json/internal/CharSequenceValue.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-  
 jar/org/apache/groovy/json/internal/ReaderCharacterSource.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-  
 jar/org/apache/groovy/json/internal/JsonParserUsingCharacterSource.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-  
 jar/org/apache/groovy/json/internal/IO.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-  
 jar/org/apache/groovy/json/internal/SimpleCache.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-  
 jar/org/apache/groovy/json/FastStringServiceFactory.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-  
 jar/org/apache/groovy/json/internal/Chr.java  
 \*  
 /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-  
 jar/org/apache/groovy/json/internal/CacheType.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-  
 jar/org/apache/groovy/json/internal/BaseJsonParser.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-  
 jar/org/apache/groovy/json/internal/FastStringUtils.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-  
 jar/org/apache/groovy/json/internal/ArrayUtils.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/groovy/json/JsonGenerator.java  
 \* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-  
 jar/org/apache/groovy/json/internal/NumberValue.java

\* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/groovy/json/DefaultJsonGenerator.java  
\* /opt/cola/permits/1223665998\_1635937393.33/0/groovy-json-3-0-9-sources-jar/org/apache/groovy/json/internal/LazyValueMap.java

## 1.114 groovy-xml 3.0.9

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Found in path(s):

\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/package.html  
\*  
/opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/streamingmarkupsupport/package.html  
\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/util/slurpersupport/package.html  
\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/dom/package.html  
\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/slurpersupport/package.html

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\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/markupsupport/DoubleQuoteFilter.java  
\*  
/opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/markupsupport/StandardControlToUndefined.java  
\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/util/slurpersupport/FilteredAttributes.java  
\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/XmlParserFactory.groovy  
\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/streamingmarkupsupport/Builder.java  
\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/util/slurpersupport/NodeChild.java  
\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/slurpersupport/FilteredNodeChildren.java  
\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/NamespaceBuilder.java  
\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/slurpersupport/Attribute.java  
\*  
/opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/org/apache/groovy/xml/tools/DomToGroovy.java  
\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/util/slurpersupport/NodeIterator.java  
\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/util/slurpersupport/NoChildren.java  
\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/markupsupport/StandardXmlAttributeFilter.java  
\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/util/XmlSlurper.java  
\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/markupsupport/SurrogateToUndefined.java  
\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/StreamingSAXBuilder.groovy  
\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/DOMBuilder.java  
\* /opt/cola/permits/1223666021\_1635937383.64/0/groovy-xml-3-0-9-sources-

```

jar/groovy/xml/slurpersupport/Node.java
*
/opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/FactorySupport.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/markupsupport/SingleQuoteFilter.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/Namespace.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/util/slurpersupport/Attribute.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/SAXBuilder.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/StaxBuilder.groovy
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/slurpersupport/NodeChild.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/util/XmlUtil.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/util/slurpersupport/Attributes.java
*
/opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/NamespaceBuilderSupport.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/util/XmlNodePrinter.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/util/slurpersupport/NamespaceAwareHashMap.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/XmlSlurperFactory.groovy
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/markupsupport/StandardXmlFilter.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/util/slurpersupport/NodeChildren.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/XmlSlurper.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/slurpersupport/GPathResult.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/slurpersupport/ReplacementNode.java
*
/opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/streamingmarkupsupport/BaseMarkupBuilder.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/XmlNodePrinter.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/slurpersupport/NamespaceAwareHashMap.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/dom/DOMCategory.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/StreamingDOMBuilder.groovy
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/slurpersupport/NodeParents.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/slurpersupport/FilteredAttributes.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/util/XmlParser.java
*

```

```

/opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/slurpersupport/NodeIterator.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/XmlParser.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/util/slurpersupport/NodeParents.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/streamingmarkupsupport/StreamingMarkupWriter.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/slurpersupport/NodeChildren.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/MarkupBuilderHelper.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/util/slurpersupport/GPathResult.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/util/slurpersupport/ReplacementNode.java
*
/opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/MarkupBuilder.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/org/codehaus/groovy/tools/xml/DomToGroovy.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/util/slurpersupport/FilteredNodeChildren.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/Entity.groovy
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/streamingmarkupsupport/AbstractStreamingBuilder.groovy
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/StreamingMarkupBuilder.groovy
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-jar/groovy/xml/XmlUtil.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/org/apache/groovy/xml/extensions/XmlExtensions.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/slurpersupport/NoChildren.java
*
/opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/slurpersupport/Attributes.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/org/codehaus/groovy/runtime/XmlGroovyMethods.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/util/slurpersupport/Node.java
* /opt/cola/permits/1223666021_1635937383.64/0/groovy-xml-3-0-9-sources-
jar/groovy/xml/markupsupport/AllControlToUndefined.java

```

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jar/org/codehaus/groovy/runtime/NioGroovyMethods.java  
\*  
/opt/cola/permits/1223666029\_1635937309.22/0/groovy-nio-3-0-9-sources-  
jar/org/apache/groovy/nio/runtime/WritablePath.java  
\* /opt/cola/permits/1223666029\_1635937309.22/0/groovy-nio-3-0-9-sources-  
jar/org/apache/groovy/nio/extensions/NioExtensions.java  
\* /opt/cola/permits/1223666029\_1635937309.22/0/groovy-nio-3-0-9-sources-  
jar/org/codehaus/groovy/runtime/WritablePath.java

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## 1.129 jna 5.10.0

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\* /opt/cola/permits/1252774624\_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/ptr/ByteByReference.java  
\* /opt/cola/permits/1252774624\_1641970131.11/0/jna-5-10-0-sources-  
jar/com/sun/jna/ptr/NativeLongByReference.java  
\* /opt/cola/permits/1252774624\_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/Callback.java  
\* /opt/cola/permits/1252774624\_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/ptr/ByReference.java  
\* /opt/cola/permits/1252774624\_1641970131.11/0/jna-5-10-0-sources-  
jar/com/sun/jna/CallbackParameterContext.java  
\* /opt/cola/permits/1252774624\_1641970131.11/0/jna-5-10-0-sources-  
jar/com/sun/jna/NativeMappedConverter.java  
\* /opt/cola/permits/1252774624\_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/win32/StdCall.java  
\*  
/opt/cola/permits/1252774624\_1641970131.11/0/jna-5-10-0-sources-  
jar/com/sun/jna/win32/W32APIFunctionMapper.java  
\* /opt/cola/permits/1252774624\_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/ptr/IntByReference.java  
\* /opt/cola/permits/1252774624\_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/PointerType.java  
\* /opt/cola/permits/1252774624\_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/FunctionMapper.java  
\* /opt/cola/permits/1252774624\_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/ptr/PointerByReference.java

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 * /opt/cola/permits/1252774624_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/Pointer.java
 * /opt/cola/permits/1252774624_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/win32/W32APIOptions.java
 *
 * /opt/cola/permits/1252774624_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/NativeString.java
 * /opt/cola/permits/1252774624_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/InvocationMapper.java
 * /opt/cola/permits/1252774624_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/CallbackResultContext.java
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 * /opt/cola/permits/1252774624_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/WeakMemoryHolder.java
 * /opt/cola/permits/1252774624_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/Platform.java
 * /opt/cola/permits/1252774624_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/VarArgsChecker.java
 * /opt/cola/permits/1252774624_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/Library.java
 * /opt/cola/permits/1252774624_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/JNIEnv.java
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<li>Type mapping behavior may be customized by providing a { @link com.sun.jna.TypeMapper} for the { @link com.sun.jna.Library#OPTION\_TYPE\_MAPPER} option when initializing a library interface. See { @link com.sun.jna.win32.W32APITypeMapper} for an example which provides custom conversion of boolean and String types. You are free to use whatever types are convenient in your defined interfaces, but all custom types <em>must</em> provide a mapping to one of the basic or derived types listed above.

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2000-05-05

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```
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-
jar/javassist/bytecode/annotation/LongMemberValue.java
*
/opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-
jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-
jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-
jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-
jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-
jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-
jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-
jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-
jar/javassist/bytecode/annotation/ShortMemberValue.java
*
/opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-
jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-
jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-
jar/javassist/bytecode/annotation/AnnotationMemberValue.java
```

\* /opt/cola/permits/1255880306\_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/CharMemberValue.java  
\* /opt/cola/permits/1255880306\_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/EnumMemberValue.java  
\* /opt/cola/permits/1255880306\_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/ArrayMemberValue.java

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\* /opt/cola/permits/1255880306\_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/EnclosingMethodAttribute.java

\*

/opt/cola/permits/1255880306\_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/IntConst.java

\* /opt/cola/permits/1255880306\_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/convert/TransformBefore.java

\* /opt/cola/permits/1255880306\_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/StackMap.java

\* /opt/cola/permits/1255880306\_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/tools/reflect/Sample.java

\* /opt/cola/permits/1255880306\_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/ClassPoolTail.java

\* /opt/cola/permits/1255880306\_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/compiler/MemberResolver.java

\* /opt/cola/permits/1255880306\_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/util/proxy/ProxyObject.java

\* /opt/cola/permits/1255880306\_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/convert/Transformer.java

\* /opt/cola/permits/1255880306\_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/LineNumberAttribute.java

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/opt/cola/permits/1255880306\_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/ClassClassPath.java  
 \* /opt/cola/permits/1255880306\_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/Variable.java  
 \* /opt/cola/permits/1255880306\_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/Declarator.java  
 \* /opt/cola/permits/1255880306\_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/compiler/KeywordTable.java  
 \* /opt/cola/permits/1255880306\_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/CtConstructor.java  
 \* /opt/cola/permits/1255880306\_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/compiler/SyntaxError.java  
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\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/BooleanArgumentType.java

\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/MetavarInference.java

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\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentAction.java

\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/helper/PrefixPattern.java

\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/SubparserImpl.java

\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/ConstructorArgumentType.java

\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentGroup.java

\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/VersionArgumentAction.java

\*

/opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/UnrecognizedArgumentException.java

\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/Subparsers.java

\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/AppendConstArgumentAction.java

\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-

jar/net/sourceforge/argparse4j/annotation/Arg.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/UnrecognizedCommandException.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentType.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/helper/CJKTextWidthCounter.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/helper/TextWidthCounter.java  
\*  
/opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/StoreArgumentAction.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/Namespace.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/StoreFalseArgumentAction.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/FeatureControl.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/choice/CollectionArgumentChoice.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentChoice.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/ArgumentGroupImpl.java  
\*  
/opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/FileVerification.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/EnumArgumentType.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentParserException.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/Subparser.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/helper/ASCIITextWidthCounter.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/helper/ReflectHelper.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/ParseState.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/helper/TextHelper.java  
\*  
/opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/StoreTrueArgumentAction.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/ArgumentParsers.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/SubparsersImpl.java

```
* /opt/cola/permits/1257333064_1642801966.95/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/inf/Argument.java
* /opt/cola/permits/1257333064_1642801966.95/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/internal/ArgumentParserImpl.java
* /opt/cola/permits/1257333064_1642801966.95/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/impl/choice/RangeArgumentChoice.java
* /opt/cola/permits/1257333064_1642801966.95/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/impl/Arguments.java
*
/opt/cola/permits/1257333064_1642801966.95/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/impl/action/AppendArgumentAction.java
* /opt/cola/permits/1257333064_1642801966.95/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/impl/type/StringArgumentType.java
* /opt/cola/permits/1257333064_1642801966.95/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/inf/ArgumentParser.java
* /opt/cola/permits/1257333064_1642801966.95/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/impl/action/HelpArgumentAction.java
* /opt/cola/permits/1257333064_1642801966.95/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/impl/action/StoreConstArgumentAction.java
* /opt/cola/permits/1257333064_1642801966.95/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/internal/ArgumentImpl.java
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*/
```

```
Found in path(s):
* /opt/cola/permits/1257333064_1642801966.95/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/impl/type/FileArgumentType.java
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```

```
/*
```

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 \*/

Found in path(s):

\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
 jar/net/sourceforge/argparse4j/inf/MutuallyExclusiveGroup.java

## 1.134 jetty-setuid-java 1.0.4

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Found in path(s):

\* /opt/cola/permits/1257333122\_1642801905.86/0/jetty-setuid-java-1-0-4-sources-  
 jar/org/eclipse/jetty/setuid/SetUIDListener.java  
 \* /opt/cola/permits/1257333122\_1642801905.86/0/jetty-setuid-java-1-0-4-sources-  
 jar/org/eclipse/jetty/setuid/SetUIDServer.java  
 \* /opt/cola/permits/1257333122\_1642801905.86/0/jetty-setuid-java-1-0-4-sources-  
 jar/org/eclipse/jetty/setuid/SetUID.java

```
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/Group.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/RLimit.java
*
/opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/Passwd.java
```

# 1.135 profiler 1.1.1

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* http://jquery.com/
*
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* http://jquery.org/license
*
* Includes Sizzle.js
* http://sizzlejs.com/
* Copyright 2011, The Dojo Foundation
* Released under the MIT, BSD, and GPL Licenses.
*
* Date: Thu Jun 30 14:16:56 2011 -0400
*/
```

Found in path(s):

```
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/resources/jquery-1.6.2.min.js
```

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```
/*
* jQuery Templates Plugin 1.0.0pre
* http://github.com/jquery/jquery-tmpl
* Requires jQuery 1.4.2
*
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* http://jquery.org/license
*/
```

Found in path(s):

```
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/resources/jquery.templ.min.js
```

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 */
```

Found in path(s):

```
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/com/google/appengine/tools/appstats/MiniProfilerAppstats.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/MiniProfiler.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/MiniProfilerFilter.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/resources/MiniProfilerResourceLoader.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/MiniProfilerServlet.java
```

## 1.136 jackson-module-afterburner 2.10.5

### 1.136.1 Available under license :

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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## ### ASM

ASM: a very small and fast Java bytecode manipulation framework

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## 1.137 hppc 0.8.1

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# 1.143 protobuf 3.19.4

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```
* /opt/cola/permits/1268278107_1675380985.331295/0/jpowershell-2-0-sources-jar/com/profesorfalken/jpowershell/PowerShellNotAvailableException.java
```

```
* /opt/cola/permits/1268278107_1675380985.331295/0/jpowershell-2-0-sources-jar/com/profesorfalken/jpowershell/PowerShellCommandProcessor.java
```

```
* /opt/cola/permits/1268278107_1675380985.331295/0/jpowershell-2-0-sources-jar/com/profesorfalken/jpowershell/PowerShellResponse.java
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\* /opt/cola/permits/1268278107\_1675380985.331295/0/jpowershell-2-0-sources-jar/com/profesorfalken/jpowershell/OSDetector.java

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# 1.145 groovy-test 3.0.9

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\*

/opt/cola/permits/1268276839\_1644387313.67/0/groovy-test-3-0-9-sources-jar/groovy/lang/GroovyLogTestCase.groovy

\* /opt/cola/permits/1268276839\_1644387313.67/0/groovy-test-3-0-9-sources-jar/groovy/test/GroovyShellTestCase.groovy

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\* /opt/cola/permits/1268276839\_1644387313.67/0/groovy-test-3-0-9-sources-jar/org/apache/groovy/test/transform/NotYetImplementedLegacyASTTransformation.java

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/opt/cola/permits/1268276839\_1644387313.67/0/groovy-test-3-0-9-sources-jar/org/apache/groovy/test/ScriptTestAdapter.java

\* /opt/cola/permits/1268276839\_1644387313.67/0/groovy-test-3-0-9-sources-jar/groovy/test/GroovyTestCase.java

\* /opt/cola/permits/1268276839\_1644387313.67/0/groovy-test-3-0-9-sources-jar/groovy/test/StringTestUtil.groovy

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\* /opt/cola/permits/1268276839\_1644387313.67/0/groovy-test-3-0-9-sources-jar/groovy/mock/interceptor/Ignore.groovy

\* /opt/cola/permits/1268276839\_1644387313.67/0/groovy-test-3-0-9-sources-jar/groovy/transform/NotYetImplemented.java

\*

/opt/cola/permits/1268276839\_1644387313.67/0/groovy-test-3-0-9-sources-jar/groovy/mock/interceptor/MockProxyMetaClass.java

\* /opt/cola/permits/1268276839\_1644387313.67/0/groovy-test-3-0-9-sources-jar/groovy/util/GroovyTestCase.java

\* /opt/cola/permits/1268276839\_1644387313.67/0/groovy-test-3-0-9-sources-jar/groovy/util/StringTestUtil.groovy

\* /opt/cola/permits/1268276839\_1644387313.67/0/groovy-test-3-0-9-sources-jar/groovy/mock/interceptor/MockFor.groovy

\* /opt/cola/permits/1268276839\_1644387313.67/0/groovy-test-3-0-9-sources-jar/groovy/mock/interceptor/LooseExpectation.groovy

\* /opt/cola/permits/1268276839\_1644387313.67/0/groovy-test-3-0-9-sources-jar/groovy/mock/interceptor/StubFor.groovy

\* /opt/cola/permits/1268276839\_1644387313.67/0/groovy-test-3-0-9-sources-jar/groovy/test/GroovyTestSuite.java

```
* /opt/cola/permits/1268276839_1644387313.67/0/groovy-test-3-0-9-sources-
jar/groovy/mock/interceptor/StrictExpectation.groovy
* /opt/cola/permits/1268276839_1644387313.67/0/groovy-test-3-0-9-sources-
jar/groovy/util/GroovyShellTestCase.groovy
*
/opt/cola/permits/1268276839_1644387313.67/0/groovy-test-3-0-9-sources-jar/groovy/util/GroovyAssert.java
* /opt/cola/permits/1268276839_1644387313.67/0/groovy-test-3-0-9-sources-
jar/groovy/util/JavadocAssertionTestBuilder.groovy
* /opt/cola/permits/1268276839_1644387313.67/0/groovy-test-3-0-9-sources-
jar/org/codehaus/groovy/runtime/ScriptTestAdapter.java
* /opt/cola/permits/1268276839_1644387313.67/0/groovy-test-3-0-9-sources-
jar/groovy/mock/interceptor/MockInterceptor.groovy
* /opt/cola/permits/1268276839_1644387313.67/0/groovy-test-3-0-9-sources-
jar/org/apache/groovy/test/transform/NotYetImplementedASTTransformation.java
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# 1.146 groovy-datetime 3.0.9

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* /opt/cola/permits/1268277769_1644386391.06/0/groovy-datetime-3-0-9-sources-
jar/org/apache/groovy/datetime/extensions/DateTimeExtensions.java
*
/opt/cola/permits/1268277769_1644386391.06/0/groovy-datetime-3-0-9-sources-
jar/org/apache/groovy/datetime/extensions/DateTimeStaticExtensions.java
```

# 1.147 ant-antlr 1.10.11

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David Megginson, david@megginson.com  
2000-05-05

## 1.148 jhardware 0.8.6

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```
* /opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-  
jar/org/jutils/jhardware/model/NetworkInfo.java  
* /opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-  
jar/org/jutils/jhardware/util/DirectXInfoLoader.java  
* /opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-  
jar/org/jutils/jhardware/model/NetworkInterfaceInfo.java
```

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* /opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-
jar/org/jutils/jhardware/info/os/windows/WindowsOSInfo.java
* /opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-
jar/org/jutils/jhardware/info/display/AbstractDisplayInfo.java
* /opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-
jar/org/jutils/jhardware/info/processor/windows/WindowsProcessorInfo.java
*
/opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-
jar/org/jutils/jhardware/model/DisplayInfo.java
* /opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-
jar/org/jutils/jhardware/HardwareInfo.java
* /opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-
jar/org/jutils/jhardware/model/MotherboardInfo.java
* /opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-
jar/org/jutils/jhardware/info/bios/windows/WindowsBiosInfo.java
* /opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-
jar/org/jutils/jhardware/info/bios/unix/UnixBiosInfo.java
* /opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-
jar/org/jutils/jhardware/info/motherboard/AbstractMotherboardInfo.java
* /opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-
jar/org/jutils/jhardware/info/HardwareFactory.java
* /opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-
jar/org/jutils/jhardware/info/processor/unix/UnixProcessorInfo.java
*
/opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-
jar/org/jutils/jhardware/info/network/windows/WindowsNetworkInfo.java
* /opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-
jar/org/jutils/jhardware/model/MemoryInfo.java
* /opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-
jar/org/jutils/jhardware/info/motherboard/unix/UnixMotherboardInfo.java
* /opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-
jar/org/jutils/jhardware/util/HardwareInfoUtils.java
* /opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-
jar/org/jutils/jhardware/info/bios/AbstractBiosInfo.java
* /opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-
jar/org/jutils/jhardware/info/InfoType.java
* /opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-
jar/org/jutils/jhardware/model/ProcessorInfo.java
*
/opt/cola/permits/1268278445_1675380984.0905662/0/jhardware-0-8-6-sources-
jar/org/jutils/jhardware/info/memory/unix/UnixMemoryInfo.java

```

\* /opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/model/ComponentInfo.java  
\* /opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/util/OSDetector.java  
\* /opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/info/processor/AbstractProcessorInfo.java  
\* /opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/info/HardwareInfo.java  
\* /opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/info/display/windows/WindowsDisplayInfo.java  
\* /opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/info/os/unix/UnixOSInfo.java  
\* /opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/model/OSInfo.java  
\*  
/opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/info/network/AbstractNetworkInfo.java  
\* /opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/model/BiosInfo.java  
\* /opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/info/network/unix/UnixNetworkInfo.java  
\* /opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/info/os/AbstractOSInfo.java  
\* /opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/info/display/unix/UnixDisplayInfo.java  
\* /opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/info/memory/windows/WindowsMemoryInfo.java  
\* /opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/info/memory/AbstractMemoryInfo.java  
\*  
/opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/info/motherboard/windows/WindowsMotherboardInfo.java  
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\* /opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/info/graphicscard/AbstractGraphicsCardInfo.java  
\* /opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/info/graphicscard/windows/WindowsGraphicsCardInfo.java  
\*  
/opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/util/TemperatureUtils.java  
\* /opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/model/GraphicsCardInfo.java

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\* /opt/cola/permits/1268278445\_1675380984.0905662/0/jhardware-0-8-6-sources-jar/org/jutils/jhardware/model/Display.java

# 1.149 groovy-sql 3.0.9

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```
* /opt/cola/permits/1268277660_1644387356.91/0/groovy-sql-3-0-9-sources-jar/groovy/sql/Sql.java
*
 /opt/cola/permits/1268277660_1644387356.91/0/groovy-sql-3-0-9-sources-
jar/groovy/sql/GroovyResultSetProxy.java
* /opt/cola/permits/1268277660_1644387356.91/0/groovy-sql-3-0-9-sources-
jar/groovy/sql/ResultSetMetaDataWrapper.java
* /opt/cola/permits/1268277660_1644387356.91/0/groovy-sql-3-0-9-sources-
jar/groovy/sql/BatchingPreparedStatementWrapper.java
* /opt/cola/permits/1268277660_1644387356.91/0/groovy-sql-3-0-9-sources-jar/groovy/sql/InOutParameter.java
* /opt/cola/permits/1268277660_1644387356.91/0/groovy-sql-3-0-9-sources-jar/groovy/sql/InParameter.java
* /opt/cola/permits/1268277660_1644387356.91/0/groovy-sql-3-0-9-sources-jar/groovy/sql/SqlWhereVisitor.java
* /opt/cola/permits/1268277660_1644387356.91/0/groovy-sql-3-0-9-sources-jar/groovy/sql/SqlWithParams.java
* /opt/cola/permits/1268277660_1644387356.91/0/groovy-sql-3-0-9-sources-
jar/org/apache/groovy/sql/extensions/SqlExtensions.java
* /opt/cola/permits/1268277660_1644387356.91/0/groovy-sql-3-0-9-sources-
jar/groovy/sql/GroovyResultSetExtension.java
*
 /opt/cola/permits/1268277660_1644387356.91/0/groovy-sql-3-0-9-sources-jar/groovy/sql/CallResultSet.java
* /opt/cola/permits/1268277660_1644387356.91/0/groovy-sql-3-0-9-sources-jar/groovy/sql/SqlOrderByVisitor.java
* /opt/cola/permits/1268277660_1644387356.91/0/groovy-sql-3-0-9-sources-jar/groovy/sql/DataSet.java
* /opt/cola/permits/1268277660_1644387356.91/0/groovy-sql-3-0-9-sources-jar/groovy/sql/GroovyResultSet.java
* /opt/cola/permits/1268277660_1644387356.91/0/groovy-sql-3-0-9-sources-
```

jar/groovy/sql/ExtractIndexAndSql.java  
\* /opt/cola/permits/1268277660\_1644387356.91/0/groovy-sql-3-0-9-sources-  
jar/groovy/sql/ResultSetOutParameter.java  
\* /opt/cola/permits/1268277660\_1644387356.91/0/groovy-sql-3-0-9-sources-  
jar/groovy/sql/BatchingStatementWrapper.java  
\* /opt/cola/permits/1268277660\_1644387356.91/0/groovy-sql-3-0-9-sources-jar/groovy/sql/OutParameter.java  
\* /opt/cola/permits/1268277660\_1644387356.91/0/groovy-sql-3-0-9-sources-jar/groovy/sql/GroovyRowResult.java  
\*  
/opt/cola/permits/1268277660\_1644387356.91/0/groovy-sql-3-0-9-sources-jar/groovy/sql/ExpandedVariable.java  
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## 1.150 groovy-docgenerator 3.0.9

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\*

/opt/cola/permits/1268275768\_1644387006.67/0/groovy-docgenerator-3-0-9-sources-jar/org/apache/groovy/docgenerator/overview-summary.html

\* /opt/cola/permits/1268275768\_1644387006.67/0/groovy-docgenerator-3-0-9-sources-jar/org/apache/groovy/docgenerator/template.package-summary.html

\* /opt/cola/permits/1268275768\_1644387006.67/0/groovy-docgenerator-3-0-9-sources-jar/org/apache/groovy/docgenerator/template.class.html

\* /opt/cola/permits/1268275768\_1644387006.67/0/groovy-docgenerator-3-0-9-sources-jar/org/apache/groovy/docgenerator/template.overview-frame.html

\* /opt/cola/permits/1268275768\_1644387006.67/0/groovy-docgenerator-3-0-9-sources-jar/org/apache/groovy/docgenerator/index.html

\* /opt/cola/permits/1268275768\_1644387006.67/0/groovy-docgenerator-3-0-9-sources-jar/org/apache/groovy/docgenerator/template.allclasses-frame.html

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## 1.151 groovy-groovydoc 3.0.9

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\*  
/opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-  
jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/packageLevel/packageDocStructuredData.xml  
\* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-  
jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/deprecated-list.html  
\* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-  
jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/classLevel/classDocName.html  
\* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-  
jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/index-all.html  
\* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-  
jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/overview-frame.html  
\* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-  
jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/classLevel/classDocStructuredData.xml  
\*  
/opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-  
jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/help-doc.html  
\* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-  
jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/packageLevel/package-summary.html  
\* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-  
jar/org/codehaus/groovy/groovydoc/package.html  
\* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-  
jar/org/codehaus/groovy/tools/groovydoc/package.html  
\* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-  
jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/packageLevel/package-frame.html  
\* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-  
jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/rootDocStructuredData.xml  
\* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-  
jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/overview-summary.html  
\*  
/opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-  
jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/index.html  
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Found in path(s):

- \* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/codehaus/groovy/groovydoc/GroovyRootDoc.java
- \*
- /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/codehaus/groovy/groovydoc/GroovyExecutableMemberDoc.java
- \* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/codehaus/groovy/tools/groovydoc/GroovyDocParserI.java
- \* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyClassDoc.java
- \* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/codehaus/groovy/tools/groovydoc/FileSystemResourceManager.java
- \* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/codehaus/groovy/tools/groovydoc/antlr4/GroovyDocParser.java
- \* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/codehaus/groovy/tools/groovydoc/ClasspathResourceManager.java
- \* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/apache/groovy/antlr/GroovydocVisitor.java
- \*
- /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/codehaus/groovy/groovydoc/GroovyProgramElementDoc.java
- \* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/codehaus/groovy/tools/groovydoc/ArrayClassDocWrapper.java
- \* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/codehaus/groovy/groovydoc/GroovyTag.java
- \* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/codehaus/groovy/groovydoc/GroovyParameter.java
- \* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyMemberDoc.java
- \* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/codehaus/groovy/tools/groovydoc/antlr4/GroovydocJavaVisitor.java
- \* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/codehaus/groovy/groovydoc/GroovyDocErrorReporter.java
- \*
- /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyPackageDoc.java
- \* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyAbstractableElementDoc.java
- \* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/codehaus/groovy/groovydoc/GroovyConstructorDoc.java
- \* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/codehaus/groovy/tools/groovydoc/FileOutputTool.java
- \* /opt/cola/permits/1268276226\_1644386929.71/0/groovy-groovydoc-3-0-9-sources-jar/org/codehaus/groovy/groovydoc/GroovyFieldDoc.java

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* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyProgramElementDoc.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyClassDocAssembler.java
*
/opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyType.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyExecutableMemberDoc.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyMethodDoc.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/GroovyDocParser.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/OutputTool.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/GroovyDocTemplateInfo.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyAnnotationRef.java
*
/opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/groovydoc/GroovyPackageDoc.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/GroovyDocTool.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/groovydoc/GroovyMethodDoc.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/ResourceManager.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/groovydoc/GroovyMemberDoc.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/groovydoc/GroovyDoc.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/Main.groovy
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyParameter.java
*
/opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/groovydoc/GroovyClassDoc.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyRootDoc.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/groovydoc/GroovyAnnotationRef.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/GroovyRootDocBuilder.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/groovydoc/GroovyType.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-

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jar/org/codehaus/groovy/tools/groovydoc/LinkArgument.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/apache/groovy/groovydoc/tools/GroovyDocUtil.java
*
/opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyConstructorDoc.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/ExternalGroovyClassDoc.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/MockOutputTool.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/GroovyDocWriter.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyTag.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyFieldDoc.java
* /opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/GroovyDocTemplateEngine.java
*
/opt/cola/permits/1268276226_1644386929.71/0/groovy-groovydoc-3-0-9-sources-
jar/org/codehaus/groovy/tools/groovydoc/SimpleGroovyDoc.java
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jar/org/codehaus/groovy/tools/groovydoc/Main.properties
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```
/*! normalize.css v2.1.0 | MIT License | git.io/normalize */
```

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Found in path(s):
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jar/org/codehaus/groovy/tools/groovydoc/gstringTemplates/topLevel/stylessheet.css
```

## 1.152 groovy-swing 3.0.9

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- \*
- /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/binding/package.html
- \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/model/package.html
- \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/impl/package.html
- \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/model/package.html
- \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/org/apache/groovy/swing/binding/package.html
- \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/package.html
- \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/org/codehaus/groovy/binding/package.html

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\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/binding/JListProperties.groovy

\*

/opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/org/apache/groovy/swing/binding/ClosureSourceBinding.java

\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/factory/BindFactory.groovy

\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/table/TableSorter.java

\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/factory/RootPaneContainerFactory.groovy

\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/impl/TableLayoutCell.java

\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/factory/BoxFactory.groovy

\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/binding/JTableProperties.java

\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/factory/ComponentFactory.groovy

\*

/opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/binding/AbstractButtonProperties.java

\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/factory/SwingBorderFactory.groovy

\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/factory/TableModelFactory.groovy

\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/factory/ImageIconFactory.groovy

\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/binding/JComboBoxProperties.java

\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/binding/JScrollBarProperties.java

\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/org/apache/groovy/swing/binding/BindingProxy.java

\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/factory/WidgetFactory.groovy

\*

/opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/factory/SplitPaneFactory.groovy

\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/swing/factory/BindProxyFactory.groovy

\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-

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jar/org/codehaus/groovy/runtime/SwingGroovyMethods.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/binding/JTableMetaMethods.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/binding/JComponentProperties.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/inspect/swingui/TableSorter.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/LookAndFeelHelper.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/binding/AbstractSyntheticBinding.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/inspect/swingui/TableMap.java
*
/opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/model/ValueHolder.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/factory/TableFactory.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/model/NestedValueModel.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/factory/ColumnFactory.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/org/codehaus/groovy/binding/ClosureTriggerBinding.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/impl/ListWrapperListModel.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/binding/JComboBoxMetaMethods.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/model/FormModel.java
*
/opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/factory/TabbedPaneFactory.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/factory/BeanFactory.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/org/apache/groovy/swing/binding/MutualPropertyBinding.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/impl/DefaultAction.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/model/DefaultTableColumn.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/model/PropertyModel.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/org/codehaus/groovy/binding/EventTriggerBinding.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/factory/RendererFactory.groovy
*
/opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/org/codehaus/groovy/binding/BindingProxy.java

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\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
 jar/org/codehaus/groovy/binding/MutualPropertyBinding.java  
 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
 jar/org/codehaus/groovy/binding/SwingTimerTriggerBinding.java  
 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
 jar/groovy/swing/factory/RichActionWidgetFactory.groovy  
 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
 jar/groovy/swing/factory/ActionFactory.groovy  
 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
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 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
 jar/org/codehaus/groovy/binding/PropertyPathFullBinding.java  
 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
 jar/groovy/swing/factory/ButtonGroupFactory.groovy  
 \*  
 /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
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 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
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 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
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 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
 jar/groovy/swing/binding/JTextComponentProperties.java  
 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
 jar/groovy/model/PropertyModel.java  
 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
 jar/groovy/swing/factory/MatteBorderFactory.groovy  
 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
 jar/org/apache/groovy/swing/binding/PropertyBinding.java  
 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
 jar/org/apache/groovy/swing/binding/ClosureTriggerBinding.java  
 \*  
 /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
 jar/org/apache/groovy/swing/binding/SwingTimerTriggerBinding.java  
 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
 jar/org/codehaus/groovy/binding/ClosureSourceBinding.java  
 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
 jar/org/apache/groovy/swing/binding/TriggerBinding.java  
 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
 jar/groovy/swing/impl/TableLayout.java  
 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
 jar/org/codehaus/groovy/binding/BindingUpdatable.java  
 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
 jar/groovy/swing/factory/CompoundBorderFactory.groovy  
 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
 jar/groovy/swing/binding/JSpinnerProperties.java  
 \* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
 jar/groovy/swing/factory/DialogFactory.groovy

\*  
/opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/groovy/swing/binding/AbstractSyntheticMetaMethods.groovy  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/groovy/swing/factory/ScrollPaneFactory.groovy  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/org/codehaus/groovy/binding/PropertyChangeProxyTargetBinding.java  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/groovy/swing/factory/EmptyBorderFactory.groovy  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/groovy/swing/factory/SeparatorFactory.groovy  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/org/apache/groovy/swing/binding/PropertyPathFullBinding.java  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/org/codehaus/groovy/binding/TriggerBinding.java  
\*  
/opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/groovy/swing/impl/TableLayoutRow.java  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/groovy/swing/model/ClosureModel.java  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/groovy/swing/factory/LayoutFactory.groovy  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/groovy/swing/model/DefaultTableModel.java  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/groovy/swing/SwingBuilder.groovy  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/groovy/swing/factory/ListFactory.groovy  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/org/codehaus/groovy/binding/PropertyBinding.java  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/groovy/swing/factory/TextArgWidgetFactory.groovy  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/org/codehaus/groovy/binding/TargetBinding.java  
\*  
/opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/groovy/swing/factory/CollectionFactory.groovy  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/groovy/swing/model/ValueHolder.java  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/org/codehaus/groovy/binding/SourceBinding.java  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/groovy/swing/factory/BoxLayoutFactory.groovy  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/groovy/swing/factory/BevelBorderFactory.groovy  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-  
jar/org/apache/groovy/swing/binding/PropertyChangeProxyTargetBinding.java  
\* /opt/cola/permits/1268277696\_1644386512.94/0/groovy-swing-3-0-9-sources-

```

jar/groovy/swing/factory/WindowFactory.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/binding/JSliderProperties.java
*
/opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/factory/FrameFactory.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-jar/groovy/model/ValueModel.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/org/apache/groovy/swing/binding/TargetBinding.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/factory/CellEditorFactory.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/model/ClosureModel.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/factory/GridBagFactory.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/org/apache/groovy/swing/extensions/SwingExtensions.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/factory/LineBorderFactory.groovy
*
/opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/org/apache/groovy/swing/binding/BindPath.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/org/apache/groovy/swing/binding/BindingUpdatable.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/factory/ColumnModelFactory.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/impl/ClosureCellEditor.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/factory/TableLayoutFactory.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/model/NestedValueModel.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/factory/InternalFrameFactory.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/org/codehaus/groovy/binding/FullBinding.java
*
/opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/org/apache/groovy/swing/binding/SourceBinding.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/org/apache/groovy/swing/binding/EventTriggerBinding.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/factory/FormattedTextFactory.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/binding/JListMetaMethods.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/table/TableMap.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-

```

```

jar/groovy/swing/model/FormModel.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/model/ValueModel.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/org/apache/groovy/swing/binding/FullBinding.java
*
/opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/factory/TitledBorderFactory.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/model/DefaultTableColumn.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/factory/MapFactory.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/org/codehaus/groovy/binding/AbstractFullBinding.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/org/codehaus/groovy/binding/BindPath.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/model/DefaultTableModel.java
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/groovy/swing/factory/ComboBoxFactory.groovy
* /opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/org/apache/groovy/swing/binding/AbstractFullBinding.java
*
/opt/cola/permits/1268277696_1644386512.94/0/groovy-swing-3-0-9-sources-
jar/org/apache/groovy/swing/binding/AggregateBinding.java

```

# 1.153 junit-platform-launcher 1.7.2

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```
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\* /opt/cola/permits/1275989236\_1645584374.25/0/auto-common-0-10-sources-jar/com/google/auto/common/BasicAnnotationProcessor.java

\* /opt/cola/permits/1275989236\_1645584374.25/0/auto-common-0-10-sources-jar/com/google/auto/common/AnnotationValues.java

\*

/opt/cola/permits/1275989236\_1645584374.25/0/auto-common-0-10-sources-jar/com/google/auto/common/MoreTypes.java

\* /opt/cola/permits/1275989236\_1645584374.25/0/auto-common-0-10-sources-jar/com/google/auto/common/SuperficialValidation.java

\* /opt/cola/permits/1275989236\_1645584374.25/0/auto-common-0-10-sources-jar/com/google/auto/common/Visibility.java

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\* /opt/cola/permits/1275989236\_1645584374.25/0/auto-common-0-10-sources-jar/com/google/auto/common/Overrides.java

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\* /opt/cola/permits/1275989236\_1645584374.25/0/auto-common-0-10-sources-jar/com/google/auto/common/GeneratedAnnotations.java

\* /opt/cola/permits/1275989236\_1645584374.25/0/auto-common-0-10-sources-jar/com/google/auto/common/GeneratedAnnotationSpecs.java

```
* /opt/cola/permits/1275989236_1645584374.25/0/auto-common-0-10-sources-  
jar/com/google/auto/common/SimpleTypeAnnotationValue.java
```

```
*
```

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/opt/cola/permits/1275989236_1645584374.25/0/auto-common-0-10-sources-  
jar/com/google/auto/common/SimpleAnnotationMirror.java
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```
* /opt/cola/permits/1275989236_1645584374.25/0/auto-common-0-10-sources-  
jar/com/google/auto/common/MoreElements.java
```

## 1.158 slf4j 1.7.36

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{"version":3,"file":"kotlin.js","sources":["wrapper.js","arrayUtils.js","callableReferenceUtils.js","conversions.js","core.js","long.js","markerFunctions.js","misc.js","polyfills.js","rtti.js","arrayUtils.kt","runtime/Enum.kt","primitiveCompanionObjects.kt","generated/_Arrays.kt","generated/_Ranges.kt","kotlin/UByte.kt","kotlin/UInt.kt","kotlin/UShort.kt","Ranges.kt","collections/Collections.kt","collections/Maps.kt","collections/Sets.kt","text/StringNumberConversions.kt","kotlin/UnsignedUtils.kt","collections/Iterables.kt","collections/Sequences.kt","util/Preconditions.kt","generated/_ArraysJs.kt","comparisons/Comparisons.kt","kotlin/Comparator.kt","util/Standard.kt","generated/_ComparisonsJs.kt","generated/_Collections.kt","kotlin/collections.kt","collections/Iterators.kt","generated/_Comparisons.kt","generated/_Maps.kt","generated/_Sequences.kt","generated/_Sets.kt","generated/_Strings.kt","text/Strings.kt","kotlin/text/string.kt","kotlin/UByteArray.kt","kotlin/UIntArray.kt","kotlin/ULongArray.kt","kotlin/ULong.kt","kotlin/UShortArray.kt","generated/_UArrays.kt","generated/_UCollections.kt","generated/_UComparisons.kt","generated/_URanges.kt","generated/_USequences.kt","Collections.kt","Iterators.kt","ProgressionIterators.kt","Progressions.kt","Range.kt","Unit.kt","annotation/Annotations.kt","internal/InternalAnnotations.kt","internal/progressionUtil.kt","reflect/KParameter.kt","reflect/KType.kt","reflect/KVariance.kt","reflect/KVisibility.kt","kotlin/builtins.kt","kotlin/jsTypeOf.kt","kotlin/kotlin.kt","kotlin/coroutines/CoroutineImpl.kt","util/Result.kt","coroutines/Continuation.kt","kotlin/coroutines/intrinsics/IntrinsicsJs.kt","kotlin/currentBeMisc.kt","kotlin/jsOperators.kt","kotlin/math_js-v1.kt","kotlin/numbers_js-v1.kt","kotlin/text/numberConversions_js-v1.kt","generated/_CollectionsJs.kt","generated/_StringsJs.kt","generated/_UArraysJs.kt","jquery/ui.kt","kotlin/annotations.kt","kotlin/annotationsJVM.kt","kotlin/collections/AbstractMutableCollection.kt","kotlin/collections/AbstractMutableList.kt","kotlin/collections/AbstractMutableMap.kt","kotlin/collections/AbstractMutableSet.kt","kotlin/collections/ArrayList.kt","kotlin/collections/ArraySorting.kt","kotlin/collections/ArraysJs.kt","kotlin/collections/EqualityComparator.kt","kotlin/collections/HashMap.kt","kotlin/collections/HashSet.kt","kotlin/collections/InternalHashMap.kt","kotlin/collections/InternalMap.kt","kotlin/collections/InternalStringMap.kt","kotlin/collections/LinkedHashMap.kt","kotlin/collections/LinkedHashSet.kt","kotlin/concurrent.kt","kotlin/console.kt","kotlin/coroutines/SafeContinuationJs.kt","kotlin/coroutines/js/internal/EmptyContinuation.kt","kotlin/date.kt","kotlin/dom/Builders.kt","kotlin/dom/Classes.kt","text/regex/RegexExtensions.kt","text/StringBuilder.kt","kotlin/dom/Domain.kt","kotlin/dom/EventListener.kt","kotlin/dom/ItemArrayLike.kt","kotlin/dom/Mutations.kt","kotlin/dynamic.kt","kotlin/exceptionUtils.kt","kotlin/exceptions.kt","kotlin/grouping.kt","collections/Grouping.kt","kotlin/js.math.kt","kotlin/json.kt","kotlin/math.kt","kotlin/numbers.kt","kotlin/promise.kt","kotlin/random/PlatformRandom.kt","kotlin/reflect/JsClass.kt","ko
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tlin/reflect/KClassImpl.kt", "kotlin/reflect/KTypeHelpers.kt", "kotlin/reflect/KTypeImpl.kt", "kotlin/reflect/KTypeParameterImpl.kt", "kotlin/reflect/primitives.kt", "kotlin/reflect/reflection.kt", "kotlin/regexp.kt", "kotlin/sequence.kt", "kotlin/text/CharacterCodingExceptionJs.kt", "kotlin/text/StringBuilderJs.kt", "kotlin/text/char.kt", "kotlin/text/numberConversions.kt", "kotlin/text/regex.kt", "kotlin/text/stringsCode.kt", "kotlin/text/utf8Encoding.kt", "kotlin/time/DurationUnit.kt", "kotlin/time/MonoTimeSource.kt", "kotlin/time/formatToDecimals.kt", "org.w3c/deprecated.kt", "org.w3c/org.khronos.webgl.kt", "org.w3c/org.w3c.dom.clipboard.kt", "org.w3c/org.w3c.dom.css.kt", "org.w3c/org.w3c.dom.events.kt", "org.w3c/org.w3c.dom.kt", "org.w3c/org.w3c.fetch.kt", "org.w3c/org.w3c.dom.mediacapture.kt", "org.w3c/org.w3c.dom.pointerevents.kt", "org.w3c/org.w3c.dom.svg.kt", "org.w3c/org.w3c.files.kt", "org.w3c/org.w3c.notifications.kt", "org.w3c/org.w3c.workers.kt", "org.w3c/org.w3c.xhr.kt", "annotations/Experimental.kt", "annotations/ExperimentalStdlibApi.kt", "annotations/Inference.kt", "annotations/Multiplatform.kt", "annotations/OptIn.kt", "collections/AbstractCollection.kt", "collections/AbstractIterator.kt", "collections/AbstractList.kt", "collections/AbstractMap.kt", "collections/AbstractSet.kt", "collections/ArrayDeque.kt", "collections/Arrays.kt", "collections/IndexedValue.kt", "collections/MapAccessors.kt", "collections/MapWithDefault.kt", "collections/MutableCollections.kt", "collections/ReversedViews.kt", "collections/SequenceBuilder.kt", "collections/SlidingWindow.kt", "collections/UArraySorting.kt", "contracts/ContractBuilder.kt", "coroutines/ContinuationInterceptor.kt", "coroutines/CoroutineContext.kt", "coroutines/CoroutineContextImpl.kt", "coroutines/intrinsics/Intrinsics.kt", "experimental/bitwiseOperations.kt", "experimental/inferenceMarker.kt", "internal/Annotations.kt", "properties/Delegates.kt", "properties/ObservableProperty.kt", "random/Random.kt", "random/URandom.kt", "random/XorWowRandom.kt", "ranges/Ranges.kt", "reflect/KClasses.kt", "reflect/typeOf.kt", "text/Appendable.kt", "text/Char.kt", "text/Indent.kt", "text/Typography.kt", "text/regex/MatchResult.kt", "time/Duration.kt", "time/DurationUnit.kt", "time/ExperimentalTime.kt", "time/TimeSource.kt", "time/TimeSources.kt", "time/measureTime.kt", "util/HashCode.kt", "util/KotlinVersion.kt", "util/Lateinit.kt", "util/Lazy.kt", "util/Numbers.kt", "util/Suspend.kt", "util/Tuples.kt", "kotlin/UIntRange.kt", "kotlin/UITerators.kt", "kotlin/ULongRange.kt", "kotlin/UMath.kt", "kotlin/UNumbers.kt", "kotlin/UProgressionUtil.kt", "kotlin/UStrings.kt", "kotlin/annotations/Unsigned.kt", "kotlin/MathH.kt", "coroutines.kt", "CoroutinesLibrary.kt", "coroutinesIntrinsics.kt", "ContinuationInterceptor.kt", "CoroutineContext.kt", "CoroutineContextImpl.kt", "Coroutines.kt", "Intrinsics.kt", "SequenceBuilder.kt"], "sourcesContent": ["(function (root, factory) {\n if (typeof define === 'function' && define.amd) {\n define('kotlin', ['exports'], factory);\n }\n else if (typeof exports === 'object') {\n factory(module.exports);\n }\n else {\n root.kotlin = {};\n factory(root.kotlin);\n }\n})(this, function (Kotlin) {\n var \_ = Kotlin;\n\n insertContent();\n});\n", "/\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n \*\n\n Kotlin.isBooleanArray = function (a) {\n return (Array.isArray(a) || a instanceof Int8Array) && a.\$type\$ === \"BooleanArray\"\n};\n\n Kotlin.isByteArray = function (a) {\n return a instanceof Int8Array && a.\$type\$ !== \"BooleanArray\"\n};\n\n Kotlin.isShortArray = function (a) {\n return a instanceof Int16Array\n};\n\n Kotlin.isCharArray = function (a) {\n return a instanceof Uint16Array && a.\$type\$ === \"CharArray\"\n};\n\n Kotlin.isIntArray = function (a) {\n return a instanceof Int32Array\n};\n\n Kotlin.isFloatArray = function (a) {\n return a instanceof Float32Array\n};\n\n Kotlin.isDoubleArray = function (a) {\n return a instanceof Float64Array\n};\n\n Kotlin.isLongArray = function (a) {\n return Array.isArray(a) && a.\$type\$ === \"LongArray\"\n};\n\n Kotlin.isArray = function (a) {\n return Array.isArray(a) && !a.\$type\$;\n};\n\n Kotlin.isArrayish = function (a) {\n return Array.isArray(a) || ArrayBuffer.isView(a)\n};\n\n Kotlin.arrayToString = function (a) {\n var toString = Kotlin.isCharArray(a) ? String.fromCharCode : Kotlin.toString;\n return \"[\" + Array.prototype.map.call(a, function(e) { return toString(e); }).join(\", \") + \"]\";\n};\n\n Kotlin.arrayDeepToString = function (arr) {\n return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);\n};\n\n Kotlin.arrayEquals = function (a, b) {\n if (a === b) {\n return true;\n }\n if (!Kotlin.isArrayish(b) || a.length !== b.length) {\n return false;\n }\n for (var i = 0, n = a.length; i < n; i++) {\n if (!Kotlin.equals(a[i], b[i])) {\n return false;\n }\n }\n return true;\n};\n\n Kotlin.arrayDeepEquals = function (a, b) {\n return Kotlin.kotlin.collections.contentDeepEqualsImpl(a, b);\n};\n\n Kotlin.arrayHashCode = function (arr) {\n var

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result = 1;\n  for (var i = 0, n = arr.length; i < n; i++) {\n    result = ((31 * result | 0) + Kotlin.hashCode(arr[i])) |
0;\n  }\n  return result;\n};\n\nKotlin.arrayDeepHashCode = function (arr) {\n  return
Kotlin.kotlin.collections.contentDeepHashCodeImpl(arr);\n};\n\nKotlin.primitiveArraySort = function (array) {\n
array.sort(Kotlin.doubleCompareTo)\n};\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors. \n * Use of this source
code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\nKotlin.getCallableRef = function(name, f) {\n  f.callableName = name;\n  return
f;\n};\n\nKotlin.getPropertyCallableRef = function(name, paramCount, getter, setter) {\n  getter.get = getter;\n
getter.set = setter;\n  getter.callableName = name;\n  return getPropertyRefClass(getter, setter,
propertyRefClassMetadataCache[paramCount]);\n};\n\nfunction getPropertyRefClass(obj, setter, cache) {\n
obj.$metadata$ = getPropertyRefMetadata(typeof setter === "function" ? cache.mutable : cache.immutable);\n
obj.constructor = obj;\n  return obj;\n}\n\nvar propertyRefClassMetadataCache = [\n  {\n    mutable: { value:
null, implementedInterface: function () {\n      return Kotlin.kotlin.reflect.KMutableProperty0 }\n    },\n
immutable: { value: null, implementedInterface: function () {\n      return Kotlin.kotlin.reflect.KProperty0 }\n
}\n  },\n  {\n    mutable: { value: null, implementedInterface: function () {\n      return
Kotlin.kotlin.reflect.KMutableProperty1 }\n    },\n    immutable: { value: null, implementedInterface: function
() {\n      return Kotlin.kotlin.reflect.KProperty1 }\n    }\n  };\n\nfunction getPropertyRefMetadata(cache)
{\n  if (cache.value === null) {\n    cache.value = {\n      interfaces: [cache.implementedInterface()],\n
baseClass: null,\n      functions: {},\n      properties: {},\n      types: {},\n      staticMembers: {}\n
};\n  }\n  return cache.value;\n}\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\nKotlin.toShort = function (a) {\n  return (a & 0xFFFF) << 16 >>
16;\n};\n\nKotlin.toByte = function (a) {\n  return (a & 0xFF)
<< 24 >> 24;\n};\n\nKotlin.toChar = function (a) {\n  return a & 0xFFFF;\n};\n\nKotlin.numberToLong =
function (a) {\n  return a instanceof Kotlin.Long ? a : Kotlin.Long.fromNumber(a);\n};\n\nKotlin.numberToInt =
function (a) {\n  return a instanceof Kotlin.Long ? a.toInt() : Kotlin.doubleToInt(a);\n};\n\nKotlin.numberToShort
= function (a) {\n  return Kotlin.toShort(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToByte = function (a) {\n
return Kotlin.toByte(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToDouble = function (a) {\n  return
+a;\n};\n\nKotlin.numberToChar = function (a) {\n  return
Kotlin.toChar(Kotlin.numberToInt(a));\n};\n\nKotlin.doubleToInt = function(a) {\n  if (a > 2147483647) return
2147483647;\n  if (a < -2147483648) return -2147483648;\n  return a | 0;\n};\n\nKotlin.toBoxedChar = function
(a) {\n  if (a == null) return a;\n  if (a instanceof Kotlin.BoxedChar) return a;\n  return new
Kotlin.BoxedChar(a);\n};\n\nKotlin.unboxChar = function(a)
{\n  if (a == null) return a;\n  return Kotlin.toChar(a);\n};\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\nKotlin.equals = function (obj1, obj2) {\n  if (obj1 == null)
{\n    return obj2 == null;\n  }\n  if (obj2 == null) {\n    return false;\n  }\n  if (obj1 !== obj2) {\n
return obj2 !== obj2;\n  }\n  if (typeof obj1 === "object" && typeof obj1.equals === "function") {\n
return obj1.equals(obj2);\n  }\n  if (typeof obj1 === "number" && typeof obj2 === "number") {\n    return
obj1 === obj2 && (obj1 !== 0 || 1 / obj1 === 1 / obj2)\n  }\n  return obj1 === obj2;\n};\n\nKotlin.hashCode =
function (obj) {\n  if (obj == null) {\n    return 0;\n  }\n  var objType = typeof obj;\n  if ("object" ===
objType) {\n    return "function"\n    === typeof obj.hashCode ? obj.hashCode() : getObjectHashCode(obj);\n  }\n  if ("function" === objType) {\n
return getObjectHashCode(obj);\n  }\n  if ("number" === objType) {\n    return
Kotlin.numberHashCode(obj);\n  }\n  if ("boolean" === objType) {\n    return Number(obj)\n  }\n  var str
= String(obj);\n  return getStringHashCode(str);\n};\n\nKotlin.toString = function (o) {\n  if (o == null) {\n
return "null";\n  }\n  else if (Kotlin.isArrayish(o)) {\n    return "[...]";\n  }\n  else {\n    return

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o.toString();\n  }\n};\n\n/** @const *\nvar POW_2_32 = 4294967296;\n// TODO: consider switching to Symbol
type once we are on ES6.\n/** @const *\nvar OBJECT_HASH_CODE_PROPERTY_NAME =
'\n\nfunction getObjectHashCode(obj) {\n  if
(! (OBJECT_HASH_CODE_PROPERTY_NAME in obj)) {\n    var hash = (Math.random() * POW_2_32) | 0; //
Make 32-bit signed integer.\n    Object.defineProperty(obj,
OBJECT_HASH_CODE_PROPERTY_NAME, { value: hash, enumerable: false });\n  }\n  return
obj[OBJECT_HASH_CODE_PROPERTY_NAME];\n}\n\nfunction getStringHashCode(str) {\n  var hash = 0;\n  for (var i = 0; i < str.length; i++) {\n    var code = str.charCodeAt(i);\n    hash = (hash * 31 + code) | 0; // Keep
it 32-bit.\n  }\n  return hash;\n}\n\nKotlin.identityHashCode = getObjectHashCode;\n"/**\n * Copyright 2010-
2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by
the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n// Copyright 2009 The Closure
Library Authors. All Rights Reserved.\n// Licensed under the Apache License, Version 2.0 (the "License");\n//
you may not use this file except in compliance with the License.\n// You may obtain a copy of the License at\n//
http://www.apache.org/licenses/LICENSE-2.0\n// Unless required by applicable law or agreed to in writing,
software\n// distributed under the License is distributed on an "AS-IS" BASIS,\n// WITHOUT WARRANTIES
OR CONDITIONS OF ANY KIND, either express or implied.\n\n/**\n * Constructs a 64-bit two's-complement
integer, given its low and high 32-bit\n * values as *signed* integers. See the from* functions below for more\n *
convenient ways of constructing Longs.\n * \n * The internal representation of a long is the two given signed, 32-bit
values.\n * \n * We use 32-bit pieces because these are the size of integers on which\n * Javascript performs bit-
operations. For operations like addition and\n * multiplication, we split each number into 16-bit pieces, which can
easily be\n * multiplied within Javascript's floating-point representation without overflow\n * or change in sign.\n *
\n * \n * In the algorithms below, we frequently reduce the negative case to the\n * positive case by negating the
input(s) and then post-processing the result.\n * \n * Note that we must ALWAYS check specially whether those
values are MIN_VALUE\n * (-2^63) because -MIN_VALUE == MIN_VALUE (since 2^63 cannot be represented
as\n * a positive number, it overflows back into a negative). Not handling this\n * case would often result in infinite
recursion.\n * \n * @param {number} low The low (signed) 32 bits of the long.\n * @param {number} high The
high (signed) 32 bits of the long.\n * @constructor\n * @final\n *\nKotlin.Long = function(low, high) {\n  /**\n *
\n * @type {number}\n * @private\n *\n this.low_ = low | 0; // force into 32 signed bits.\n\n /**\n * @type
{number}\n * @private\n *\n this.high_ = high | 0; // force into 32 signed bits.\n};\n\nKotlin.Long.$metadata$ =
{\n  kind: "class",\n  simpleName: "Long",\n  interfaces: []};\n\n// NOTE: Common constant values
ZERO, ONE, NEG_ONE, etc. are defined below the\n// from* methods on which they depend.\n\n/**\n * A cache
of the Long representations of small integer values.\n * @type {!Object}\n * @private\n *\nKotlin.Long.IntCache_
= {};\n\n/**\n * Returns a Long representing the given (32-bit) integer value.\n * @param {number} value The
32-bit integer in question.\n * @return {!Kotlin.Long} The corresponding Long value.\n *\nKotlin.Long.fromInt =
function(value) {\n  if (-128 <= value && value < 128) {\n    var cachedObj = Kotlin.Long.IntCache_[value];\n    if
(cachedObj) {\n      return cachedObj;\n    }\n    var obj = new Kotlin.Long(value | 0, value < 0 ? -1 : 0);\n    if (-
128 <= value && value < 128) {\n      Kotlin.Long.IntCache_[value] = obj;\n    }\n    return obj;\n};\n\n/**\n *
Converts this number value to `Long`. \n * The fractional part, if any, is rounded down towards zero.\n * Returns
zero if this `Double` value is `NaN`, `Long.MIN_VALUE` if it's less than `Long.MIN_VALUE`, \n *
`Long.MAX_VALUE` if it's bigger than `Long.MAX_VALUE`. \n * @param {number} value The number in
question.\n * @return {!Kotlin.Long} The corresponding Long value.\n *\nKotlin.Long.fromNumber =
function(value)
{\n  if (isNaN(value)) {\n    return Kotlin.Long.ZERO;\n  } else if (value <= -Kotlin.Long.TWO_PWR_63_DBL_)
{\n    return Kotlin.Long.MIN_VALUE;\n  } else if (value + 1 >= Kotlin.Long.TWO_PWR_63_DBL_) {\n    return
Kotlin.Long.MAX_VALUE;\n  } else if (value < 0) {\n    return Kotlin.Long.fromNumber(-value).negate();\n  }
else {\n    return new Kotlin.Long(\n      (value % Kotlin.Long.TWO_PWR_32_DBL_) | 0,\n      (value /
Kotlin.Long.TWO_PWR_32_DBL_) | 0);\n  }\n};\n\n/**\n * Returns a Long representing the 64-bit integer that
comes by concatenating\n * the given high and low bits. Each is assumed to use 32 bits.\n * @param {number}

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lowBits The low 32-bits.\n * @param {number} highBits The high 32-bits.\n * @return {!Kotlin.Long} The
corresponding Long value.\n */\nKotlin.Long.fromBits = function(lowBits, highBits) {\n  return new
Kotlin.Long(lowBits, highBits);\n};\n\n/**\n * Returns a Long representation of the given string, written using the
given\n * radix.\n * @param {string}
str The textual representation of the Long.\n * @param {number=} opt_radix The radix in which the text is
written.\n * @return {!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromString = function(str,
opt_radix) {\n  if (str.length == 0) {\n    throw Error('number format error: empty string');\n  }\n\n  var radix =
opt_radix || 10;\n  if (radix < 2 || 36 < radix) {\n    throw Error('radix out of range: ' + radix);\n  }\n\n  if
(str.charAt(0) == '-') {\n    return Kotlin.Long.fromString(str.substring(1), radix).negate();\n  } else if (str.indexOf('-')
>= 0) {\n    throw Error('number format error: interior "-" character: ' + str);\n  }\n\n  // Do several (8) digits each
time through the loop, so as to\n  // minimize the calls to the very expensive emulated div.\n  var radixToPower =
Kotlin.Long.fromNumber(Math.pow(radix, 8));\n\n  var result = Kotlin.Long.ZERO;\n  for (var i = 0; i < str.length;
i += 8) {\n    var size = Math.min(8, str.length - i);\n    var value
= parseInt(str.substring(i, i + size), radix);\n    if (size < 8) {\n      var power =
Kotlin.Long.fromNumber(Math.pow(radix, size));\n      result =
result.multiply(power).add(Kotlin.Long.fromNumber(value));\n    } else {\n      result =
result.multiply(radixToPower);\n      result = result.add(Kotlin.Long.fromNumber(value));\n    }\n  }\n  return
result;\n};\n\n// NOTE: the compiler should inline these constant values below and then remove\n// these
variables, so there should be no runtime penalty for these.\n\n/**\n * Number used repeated below in calculations.
This must appear before the\n * first call to any from* function below.\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_16_DBL_ = 1 << 16;\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_32_DBL_ =\n  Kotlin.Long.TWO_PWR_16_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_31_DBL_
=\n  Kotlin.Long.TWO_PWR_32_DBL_ / 2;\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_48_DBL_ =\n  Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_64_DBL_ =\n  Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_32_DBL_;\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_63_DBL_ =\n  Kotlin.Long.TWO_PWR_64_DBL_ / 2;\n\n/**\n * @type
{!Kotlin.Long} */\nKotlin.Long.ZERO = Kotlin.Long.fromInt(0);\n\n/**\n * @type {!Kotlin.Long}
*/\nKotlin.Long.ONE = Kotlin.Long.fromInt(1);\n\n/**\n * @type {!Kotlin.Long} */\nKotlin.Long.NEG_ONE =
Kotlin.Long.fromInt(-1);\n\n/**\n * @type {!Kotlin.Long} */\nKotlin.Long.MAX_VALUE =\n  Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);\n\n/**\n * @type {!Kotlin.Long}
*/\nKotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);\n\n/**\n * @type {!Kotlin.Long}\n *
@private\n */\nKotlin.Long.TWO_PWR_24_ = Kotlin.Long.fromInt(1
<< 24);\n\n/**\n * @return {number} The value, assuming it is a 32-bit integer. */\nKotlin.Long.prototype.toInt =
function() {\n  return this.low_;\n};\n\n/**\n * @return {number} The closest floating-point representation to this
value. */\nKotlin.Long.prototype.toNumber = function() {\n  return this.high_ *
Kotlin.Long.TWO_PWR_32_DBL_ +\n    this.getLowBitsUnsigned();\n};\n\n/**\n * @return {number} The 32-bit
hashCode of this value. */\nKotlin.Long.prototype.hashCode = function() {\n  return this.high_ ^
this.low_;\n};\n\n/**\n * @param {number=} opt_radix The radix in which the text should be written.\n * @return
{string} The textual representation of this value.\n * @override\n */\nKotlin.Long.prototype.toString =
function(opt_radix) {\n  var radix = opt_radix || 10;\n  if (radix < 2 || 36 < radix) {\n    throw Error('radix out of
range: ' + radix);\n  }\n\n  if (this.isZero()) {\n    return '0';\n  }\n\n  if (this.isNegative()) {\n    if
(this.equalsLong(Kotlin.Long.MIN_VALUE))

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this.add(Kotlin.Long.NEG_ONE);\n};\n\nKotlin.Long.prototype.valueOf = function() {\n  return
this.toNumber();\n};\n\nKotlin.Long.prototype.unaryPlus = function() {\n  return
this;\n};\n\nKotlin.Long.prototype.unaryMinus = Kotlin.Long.prototype.negate;\nKotlin.Long.prototype.inv =
Kotlin.Long.prototype.not;\n\nKotlin.Long.prototype.rangeTo = function (other) {\n  return new
Kotlin.kotlin.ranges.LongRange(this, other);\n};\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source
code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n *
@param {string} id\n * @param {Object} declaration\n */\nKotlin.defineModule = function (id, declaration)
{\n};\n\nKotlin.defineInlineFunction = function(tag, fun) {\n  return fun;\n};\n\nKotlin.wrapFunction =
function(fun) {\n  var f = function() {\n    f = fun();\n    return f.apply(this, arguments);\n  };\n  return
function() {\n    return f.apply(this, arguments);\n  };\n};\n\nKotlin.isTypeOf = function(type) {\n  return
function (object) {\n    return typeof object === type;\n  };\n};\n\nKotlin.isInstanceOf = function (klass) {\n
return function (object) {\n    return Kotlin.isType(object, klass);\n  };\n};\n\nKotlin.orNull = function (fn) {\n
return function (object) {\n    return object == null || fn(object);\n  };\n};\n\nKotlin.andPredicate
= function (a, b) {\n  return function (object) {\n    return a(object) && b(object);\n
  };\n};\n\nKotlin.kotlinModuleMetadata = function (abiVersion, moduleName, data) {\n};\n\nKotlin.suspendCall =
function(value) {\n  return value;\n};\n\nKotlin.coroutineResult = function(qualifier) {\n
throwMarkerError();\n};\n\nKotlin.coroutineController = function(qualifier) {\n
throwMarkerError();\n};\n\nKotlin.coroutineReceiver = function(qualifier) {\n
throwMarkerError();\n};\n\nKotlin.setCoroutineResult = function(value, qualifier) {\n
throwMarkerError();\n};\n\nKotlin.getReifiedTypeParameterKType = function(typeParameter) {\n
throwMarkerError();\n};\n\nfunction throwMarkerError() {\n  throw new Error(\n    \"This marker function
should never be called. \" +\n    \"Looks like compiler did not eliminate it properly. \" +\n    \"Please, report
an issue if you caught this exception.\");\n}\n\nKotlin.getFunctionById = function(id, defaultValue)
{\n  return function() {\n    return defaultValue;\n  };\n};\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\nKotlin.compareTo = function (a, b) {\n  var typeA = typeof
a;\n  if (typeA === \"number\") {\n    if (typeof b === \"number\") {\n      return Kotlin.doubleCompareTo(a,
b);\n    }\n    return Kotlin.primitiveCompareTo(a, b);\n  }\n  if (typeA === \"string\" || typeA ===
\"boolean\") {\n    return Kotlin.primitiveCompareTo(a, b);\n  }\n  return
a.compareTo_1 1rb$(b);\n};\n\nKotlin.primitiveCompareTo = function (a, b) {\n  return a < b ? -1 : a > b ? 1 :
0;\n};\n\nKotlin.doubleCompareTo = function (a, b) {\n  if (a < b) return -1;\n  if (a > b) return 1;\n\n  if (a ===
b) {\n    if (a !== 0) return 0;\n\n    var ia = 1 / a;\n    return ia === 1
/ b ? 0 : (ia < 0 ? -1 : 1);\n  }\n  return a !== a ? (b !== b ? 0 : 1) : -1;\n};\n\nKotlin.charInc = function (value)
{\n  return Kotlin.toChar(value+1);\n};\n\nKotlin.charDec = function (value) {\n  return Kotlin.toChar(value-
1);\n};\n\nKotlin.imul = Math.imul || imul;\n\nKotlin.imulEmulated = imul;\n\nfunction imul(a, b) {\n  return ((a &
0xffff0000) * (b & 0xffff) + (a & 0xffff) * (b | 0)) | 0;\n}\n\n(function() {\n  var buf = new ArrayBuffer(8);\n  var
bufFloat64 = new Float64Array(buf);\n  var bufFloat32 = new Float32Array(buf);\n  var bufInt32 = new
Int32Array(buf);\n  var lowIndex = 0;\n  var highIndex = 1;\n\n  bufFloat64[0] = -1; // bff00000_00000000\n  if
(bufInt32[lowIndex] !== 0) {\n    lowIndex = 1;\n    highIndex = 0;\n  }\n\n  Kotlin.doubleToBits =
function(value) {\n    return Kotlin.doubleToRawBits(isNaN(value) ? NaN : value);\n  };\n\n  Kotlin.doubleToRawBits = function(value) {\n    bufFloat64[0] = value;\n    return
Kotlin.Long.fromBits(bufInt32[lowIndex], bufInt32[highIndex]);\n  };\n\n  Kotlin.doubleFromBits =
function(value) {\n    bufInt32[lowIndex] = value.low_;\n    bufInt32[highIndex] = value.high_;\n    return
bufFloat64[0];\n  };\n\n  Kotlin.floatToBits = function(value) {\n    return Kotlin.floatToRawBits(isNaN(value)
? NaN : value);\n  };\n\n  Kotlin.floatToRawBits = function(value) {\n    bufFloat32[0] = value;\n    return
bufInt32[0];\n  };\n\n  Kotlin.floatFromBits = function(value) {\n    bufInt32[0] = value;\n    return
bufFloat32[0];\n  };\n\n  // returns zero value for number with positive sign bit and non-zero value for number

```



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    }\n        else\n            {\n                return Math.log(x + Math.sqrt(x * x - 1));\n            }\n        }\n        else\n            {\n                var y = Math.sqrt(x - 1);\n                // approximation by taylor series in y at 0 up to\n                order 2\n                var result = y;\n                if (y >= taylor_2_bound)\n                    {\n                        var y3 = y * y *\n                        y;\n                        // approximation by taylor series in y at 0 up to order 4\n                        result -= y3 / 12;\n                    }\n                return Math.sqrt(2)\n            }\n        }\n        * result;\n    }\n    };\n    } if (typeof Math.atanh === \"undefined\") {\n        Math.atanh = function(x)\n        {\n            if (Math.abs(x) < taylor_n_bound) {\n                var result = x;\n                if (Math.abs(x) >\n                taylor_2_bound) {\n                    result += (x * x * x) / 3;\n                }\n                return result;\n            }\n            return Math.log((1 + x) / (1 - x)) / 2;\n        };\n    } if (typeof Math.log1p === \"undefined\") {\n        Math.log1p\n        = function(x) {\n            if (Math.abs(x) < taylor_n_bound) {\n                var x2 = x * x;\n                var x3 = x2 *\n                x;\n                var x4 = x3 * x;\n                // approximation by taylor series in x at 0 up to order 4\n                return (-\n                x4 / 4 + x3 / 3 - x2 / 2 + x);\n            }\n            return Math.log(x + 1);\n        };\n    } if (typeof Math.expm1\n    === \"undefined\") {\n        Math.expm1 = function(x) {\n            if (Math.abs(x)\n            < taylor_n_bound) {\n                var x2 = x * x;\n                var x3 = x2 * x;\n                var x4 = x3 * x;\n                //\n                approximation by taylor series in x at 0 up to order 4\n                return (x4 / 24 + x3 / 6 + x2 / 2 + x);\n            }\n            return Math.exp(x) - 1;\n        };\n    } if (typeof Math.hypot === \"undefined\") {\n        Math.hypot =\n        function() {\n            var y = 0;\n            var length = arguments.length;\n            for (var i = 0; i < length; i++) {\n                if (arguments[i] === Infinity || arguments[i] === -Infinity) {\n                    return Infinity;\n                }\n                y +=\n                arguments[i] * arguments[i];\n            }\n            return Math.sqrt(y);\n        };\n    } if (typeof Math.log10 === \"undefined\") {\n        Math.log10 = function(x) {\n            return Math.log(x) * Math.LOG10E;\n        };\n    } if (typeof Math.log2 ===\n    \"undefined\") {\n        Math.log2 = function(x) {\n            return Math.log(x) * Math.LOG2E;\n        };\n    } if\n    (typeof Math.clz32 === \"undefined\") {\n        Math.clz32 = (function(log, LN2) {\n            return function(x) {\n                var asUInt = x >>> 0;\n                if (asUInt === 0) {\n                    return 32;\n                }\n                return 31 - (log(asUInt) /\n                LN2 | 0) | 0; // the \"| 0\" acts like math.floor\n            };\n        })(Math.log, Math.LN2);\n    } // For HtmlUnit and\n    PhantomJs\n    if (typeof ArrayBuffer.isView === \"undefined\") {\n        ArrayBuffer.isView = function(a) {\n            return a != null && a.__proto__ != null && a.__proto__.__proto__ === Int8Array.prototype.__proto__;\n        };\n    } if (typeof Array.prototype.fill === \"undefined\") {\n        // Polyfill from https://developer.mozilla.org/en-\n        US/docs/Web/JavaScript/Reference/Global_Objects/Array/fill#Polyfill\n        Array.prototype.fill = function() {\n            //\n            Steps 1-2.\n            if (this == null) {\n                throw new TypeError('this is null or not defined');\n            }\n            var O =\n            Object(this);\n            // Steps 3-5.\n            var len = O.length >>> 0;\n            // Steps 6-7.\n            var start = arguments[1];\n            var relativeStart = start >>\n            0;\n            // Step 8.\n            var k = relativeStart < 0 ?\n            Math.max(len + relativeStart, 0) : \n            Math.min(relativeStart, len);\n            // Steps 9-10.\n            var end = arguments[2];\n            var relativeEnd = end ===\n            undefined ?\n            len : end >> 0;\n            // Step 11.\n            var final = relativeEnd < 0 ?\n            Math.max(len +\n            relativeEnd, 0) : \n            Math.min(relativeEnd, len);\n            // Step 12.\n            while (k < final) {\n                O[k] = value;\n                k++;\n            }\n            // Step 13.\n            return O;\n        };\n    } (function() {\n        function normalizeOffset(offset,\n        length) {\n            if (offset < 0) return Math.max(0, offset + length);\n            return Math.min(offset, length);\n        }\n        function typedArraySlice(begin, end) {\n            if (typeof end === \"undefined\") {\n                end = this.length;\n            }\n            begin = normalizeOffset(begin\n            || 0, this.length);\n            end = Math.max(begin, normalizeOffset(end, this.length));\n            return new\n            this.constructor(this.subarray(begin, end));\n        }\n        var arrays = [Int8Array, Int16Array, Uint16Array,\n        Int32Array, Float32Array, Float64Array];\n        for (var i = 0; i < arrays.length; ++i) {\n            var TypedArray =\n            arrays[i];\n            if (typeof TypedArray.prototype.fill === \"undefined\") {\n                TypedArray.prototype.fill =\n                Array.prototype.fill;\n            }\n            if (typeof TypedArray.prototype.slice === \"undefined\") {\n                Object.defineProperty(TypedArray.prototype, 'slice', {\n                    value: typedArraySlice\n                });\n            }\n        }\n        // Patch apply to work with TypedArrays if needed.\n        try {\n            (function() {}).apply(null, new\n            Int32Array(0))\n        } catch (e) {\n            var apply = Function.prototype.apply;\n            Object.defineProperty(Function.prototype, 'apply', {\n                value: function(self, array)

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    return apply.call(this, self, [].slice.call(array));
  });
}

// Patch map to work
with TypedArrays if needed.
for (var i = 0; i < arrays.length; ++i) {
  var TypedArray = arrays[i];
  if
(typeof TypedArray.prototype.map === "undefined") {
    Object.defineProperty(TypedArray.prototype,
'map', {
      value: function(callback, self) {
        return [].slice.call(this).map(callback, self);
      }
    });
  }
}

// Patch sort to work with TypedArrays if needed.
// TODO: consider to
remove following function and replace it with `Kotlin.doubleCompareTo` (see misc.js)
var
totalOrderComparator = function (a, b) {
  if (a < b) return -1;
  if (a > b) return 1;
  if (a === b) {
    if (a !== 0) return 0;
    var ia = 1 / a;
    return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);
  }
  return a !== a ? (b !== b ? 0 : 1) : -1;
};

for (var i = 0; i < arrays.length; ++i) {
  var TypedArray =
arrays[i];
  if (typeof TypedArray.prototype.sort === "undefined") {
    Object.defineProperty(TypedArray.prototype, 'sort', {
      value: function(compareFunction) {
        return Array.prototype.sort.call(this, compareFunction || totalOrderComparator);
      }
    });
  }
}

}());
"/**
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 * Use
of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.
 */
Kotlin.Kind = {
  CLASS: "class",
  INTERFACE: "interface",
  OBJECT:
"object"
};
Kotlin.callGetter = function (thisObject, klass, propertyName) {
  var propertyDescriptor =
Object.getOwnPropertyDescriptor(klass, propertyName);
  if (propertyDescriptor != null
&& propertyDescriptor.get != null) {
    return propertyDescriptor.get.call(thisObject);
  }
  propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject, propertyName);
  if (propertyDescriptor !=
null && "value" in propertyDescriptor) {
    return thisObject[propertyName];
  }
  return
Kotlin.callGetter(thisObject, Object.getPrototypeOf(klass), propertyName);
};
Kotlin.callSetter = function
(thisObject, klass, propertyName, value) {
  var propertyDescriptor = Object.getOwnPropertyDescriptor(klass,
propertyName);
  if (propertyDescriptor != null && propertyDescriptor.set != null) {
    propertyDescriptor.set.call(thisObject, value);
    return;
  }
  propertyDescriptor =
Object.getOwnPropertyDescriptor(thisObject, propertyName);
  if (propertyDescriptor != null && "value" in
propertyDescriptor) {
    thisObject[propertyName] = value;
    return;
  }
  Kotlin.callSetter(thisObject,
Object.getPrototypeOf(klass),
propertyName, value);
};

function isInheritanceFromInterface(ctor, iface) {
  if (ctor === iface) return
true;
  var metadata = ctor.$metadata$;
  if (metadata != null) {
    var interfaces = metadata.interfaces;
    for (var i = 0; i < interfaces.length; i++) {
      if (isInheritanceFromInterface(interfaces[i],
iface)) {
        return true;
      }
    }
  }
  var superPrototype = ctor.prototype != null ?
Object.getPrototypeOf(ctor.prototype) : null;
  var superConstructor = superPrototype != null ?
superPrototype.constructor : null;
  return superConstructor != null &&
isInheritanceFromInterface(superConstructor, iface);
}

/**
 * @param {*} object
 * @param
{Function|Object} klass
 * @returns {Boolean}
 */
Kotlin.isType = function (object, klass) {
  if (klass ===
Object) {
    switch (typeof object) {
      case "string":
      case "number":
      case
"boolean":
      case "function":
        return true;
      default:
        return object instanceof Object;
    }
  }
  if (object == null || klass == null || (typeof object !== 'object' &&
typeof object !== 'function')) {
    return false;
  }
  if (typeof klass === "function" && object instanceof klass) {
    return true;
  }
  var proto = Object.getPrototypeOf(klass);
  var constructor = proto != null ? proto.constructor : null;
  if
(constructor != null && "$metadata$" in constructor) {
    var metadata = constructor.$metadata$;
    if
(metadata.kind === Kotlin.Kind.OBJECT) {
      return object === klass;
    }
  }
  var klassMetadata
= klass.$metadata$;
  // In WebKit (JavaScriptCore) for some interfaces from DOM typeof returns "object",
nevertheless they can be used in RHS of instanceof
  if (klassMetadata == null) {
    return object instanceof
klass;
  }
  if (klassMetadata.kind === Kotlin.Kind.INTERFACE && object.constructor != null) {
    return
isInheritanceFromInterface(object.constructor, klass);
  }
  return false;
};

Kotlin.isNumber = function (a)

```

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{\n  return typeof a === "number" || a instanceof Kotlin.Long;\n};\n\nKotlin.isChar = function (value) {\n  return
value instanceof Kotlin.BoxedChar;\n};\n\nKotlin.isComparable = function (value) {\n  var type = typeof value;\n\n  return type === "string" ||\n        type === "boolean" ||\n        Kotlin.isNumber(value) ||\n        Kotlin.isType(value, Kotlin.kotlin.Comparable);\n};\n\nKotlin.isCharSequence = function (value) {\n  return
typeof value === "string" || Kotlin.isType(value, Kotlin.kotlin.CharSequence);\n};",null,"/*\n * Copyright 2010-
2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin\n\npublic class Enum<T : Enum<T>> : Comparable<Enum<T>> {\n  @JsName("name$") private var
_name: String = ""\n  @JsName("ordinal$") private var _ordinal: Int = 0\n  val name: String\n    get() =
_name\n  val ordinal: Int\n    get() = _ordinal\n  override fun compareTo(other: Enum<T>) =
ordinal.compareTo(other.ordinal)\n  override fun equals(other: Any?) = this === other\n  override fun
hashCode(): Int = js("Kotlin.identityHashCode")(this)\n  override fun toString() = name\n  companion
object{\n},null,"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("ArraysKt")\n\npackage
kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n\nimport
kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element*
from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in
Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
Array<out T>.component1(): T {\n  return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If
the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component1():
Byte {\n  return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is
less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@kotlin.internal.InlineOnly\npublic
inline operator fun ShortArray.component1(): Short {\n  return get(0)\n}\n\n/**\n * Returns 1st *element* from
the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in
Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun
IntArray.component1(): Int {\n  return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If
the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component1(): Long {\n
return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than
1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component1(): Float {\n  return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1,
throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component1(): Double {\n  return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1,
throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component1(): Boolean {\n  return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1,
throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component1(): Char {\n  return
get(0)\n}\n\n/**\n * Returns 2nd *element* from the
array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n
* where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out
T>.component2(): T {\n  return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of

```

this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

```

*\/@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component2(): Byte {\n
return get(1)\n}\n\n**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2,
throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component2(): Short {\n
return
get(1)\n}\n\n**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2,
throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component2(): Int {\n
return
get(1)\n}\n\n**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component2(): Long {\n
return
get(1)\n}\n\n**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component2(): Float {\n
return
get(1)\n}\n\n**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS where
the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun
DoubleArray.component2(): Double {\n
return get(1)\n}\n\n**\n * Returns 2nd *element* from the array.\n * \n
* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the
behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component2():
Boolean {\n
return get(1)\n}\n\n**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is
less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component2(): Char {\n
return
get(1)\n}\n\n**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic
inline operator fun <T> Array<out T>.component3(): T {\n
return get(2)\n}\n\n**\n * Returns 3rd *element*
from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in
Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun
ByteArray.component3(): Byte {\n
return get(2)\n}\n\n**\n * Returns 3rd *element* from the array.\n * \n * If
the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the
behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component3():
Short {\n
return get(2)\n}\n\n**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less
than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component3():
Int {\n
return get(2)\n}\n\n**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less
than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component3(): Long {\n
return
get(2)\n}\n\n**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component3(): Float {\n
return
get(2)\n}\n\n**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an
[IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component3(): Double {\n
return
get(2)\n}\n\n**\n * Returns 3rd
*element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException]
except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator
fun BooleanArray.component3(): Boolean {\n
return get(2)\n}\n\n**\n * Returns 3rd *element* from the array.\n

```

\* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \* \n @kotlin.internal.InlineOnly\n public inline operator fun CharArray.component3(): Char {\n return get(2)\n }\n\n \*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n\n \* \n @kotlin.internal.InlineOnly\n public inline operator fun <T> Array<out T>.component4(): T {\n return get(3)\n }\n\n \*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n\n \* \n @kotlin.internal.InlineOnly\n public inline operator fun ByteArray.component4(): Byte {\n return get(3)\n }\n\n \*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n\n \* \n @kotlin.internal.InlineOnly\n public inline operator fun ShortArray.component4(): Short {\n return get(3)\n }\n\n \*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n\n \* \n @kotlin.internal.InlineOnly\n public inline operator fun IntArray.component4(): Int {\n return get(3)\n }\n\n \*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n\n \* \n @kotlin.internal.InlineOnly\n public inline operator fun LongArray.component4(): Long {\n return get(3)\n }\n\n \*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n\n \* \n @kotlin.internal.InlineOnly\n public inline operator fun FloatArray.component4(): Float {\n return get(3)\n }\n\n \*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n\n \* \n @kotlin.internal.InlineOnly\n public inline operator fun DoubleArray.component4(): Double {\n return get(3)\n }\n\n \*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n\n \* \n @kotlin.internal.InlineOnly\n public inline operator fun BooleanArray.component4(): Boolean {\n return get(3)\n }\n\n \*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n\n \* \n @kotlin.internal.InlineOnly\n public inline operator fun CharArray.component4(): Char {\n return get(3)\n }\n\n \*\*\n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n\n \* \n @kotlin.internal.InlineOnly\n public inline operator fun <T> Array<out T>.component5(): T {\n return get(4)\n }\n\n \*\*\n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n\n \* \n @kotlin.internal.InlineOnly\n public inline operator fun ByteArray.component5(): Byte {\n return get(4)\n }\n\n \*\*\n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n\n \* \n @kotlin.internal.InlineOnly\n public inline operator fun ShortArray.component5(): Short {\n return get(4)\n }\n\n \*\*\n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n\n \* \n @kotlin.internal.InlineOnly\n public inline operator fun IntArray.component5(): Int {\n return get(4)\n }\n\n \*\*\n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n\n \* \n @kotlin.internal.InlineOnly\n public inline operator fun LongArray.component5(): Long {\n return get(4)\n }\n\n \*\*\n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n\n \* \n @kotlin.internal.InlineOnly\n public inline operator fun FloatArray.component5(): Float {\n return



```

[defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Array<out T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.elementAtOrElse(index:
Int, defaultValue: (Int) -> Byte): Byte {\n  return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {\n  return if (index >= 0 && index <=
lastIndex)
get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling
the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double {\n  return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {\n  return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.elementAtOrElse(index: Int, defaultValue: (Int) ->
Char): Char {\n  return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n *
Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Array<out T>.elementAtOrNull(index: Int): T? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.elementAtOrNull(index: Int): Byte? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.elementAtOrNull(index: Int): Short? {\n  return

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this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.elementAtOrNull(index: Int): Int? {\n    return
this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.elementAtOrNull(index: Int): Long? {\n    return
this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.elementAtOrNull(index: Int): Float? {\n    return
this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.elementAtOrNull(index: Int): Double? {\n    return
this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.elementAtOrNull(index: Int): Boolean? {\n    return
this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of
bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.elementAtOrNull(index: Int): Char? {\n    return
this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such
element was found.\n * \n *\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.find(predicate: (T) ->
Boolean): T? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if no such element was found.\n * \n *\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.find(predicate: (Byte) -> Boolean): Byte? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.find(predicate: (Short) -> Boolean): Short? {\n
    return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
no such element was found.\n * \n *\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.find(predicate: (Int) ->
Boolean): Int? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if no such element was found.\n * \n *\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.find(predicate: (Long) -> Boolean): Long? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.find(predicate: (Float) -> Boolean): Float? {\n
    return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no
such element was found.\n * \n *\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.find(predicate: (Double)
-> Boolean): Double? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given
[predicate],
or `null` if no such element was found.\n * \n *\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.find(predicate: (Boolean) -> Boolean): Boolean? {\n    return firstOrNull(predicate)\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if no such element was found.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.find(predicate: (Char) -> Boolean): Char? {\n    return
firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such
element was found.\n * \n *\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.findLast(predicate: (T) -
> Boolean): T? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n *\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.findLast(predicate: (Byte) -> Boolean): Byte? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns
the last
element matching the given [predicate], or `null` if no such element was found.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.findLast(predicate: (Short) -> Boolean): Short? {\n

```

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return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no
such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.findLast(predicate: (Int) ->
Boolean): Int? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.findLast(predicate: (Long) -> Boolean): Long? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns
the last element matching the given [predicate], or `null` if no such element was found.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.findLast(predicate: (Float) -> Boolean): Float? {\n
return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.findLast(predicate: (Double) -> Boolean): Double?
{\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if
no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.findLast(predicate:
(Boolean) -> Boolean): Boolean? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching
the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.findLast(predicate: (Char) -> Boolean): Char? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns
first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun <T> Array<out
T>.first(): T {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is
empty.\n */\npublic fun ByteArray.first(): Byte {\n    if (isEmpty())\n        throw NoSuchElementException("Array
is empty.")\n    return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the
array is empty.\n */\npublic fun ShortArray.first(): Short {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return this[0]\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n */\npublic fun IntArray.first(): Int {\n    if (isEmpty())\n
throw NoSuchElementException("Array is empty.")\n    return this[0]\n}\n\n/**\n * Returns first element.\n *
@throws [NoSuchElementException] if the array is empty.\n */\npublic fun LongArray.first(): Long {\n    if
(isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return this[0]\n}\n\n/**\n * Returns
first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun FloatArray.first():
Float {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return this[0]\n}\n\n/**\n
* Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun
DoubleArray.first(): Double {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n
*/\npublic fun BooleanArray.first(): Boolean {\n    if (isEmpty())\n        throw NoSuchElementException("Array
is empty.")\n    return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the
array is empty.\n */\npublic fun CharArray.first(): Char {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return this[0]\n}\n\n/**\n * Returns the first element matching
the given
[predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T>
Array<out T>.first(predicate: (T) -> Boolean): T {\n    for (element in this) if (predicate(element)) return element\n
throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the
first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is
found.\n */\npublic inline fun ByteArray.first(predicate: (Byte) -> Boolean): Byte {\n    for (element in this) if
(predicate(element)) return element\n    throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun ShortArray.first(predicate: (Short) -
> Boolean): Short {\n    for (element in this) if (predicate(element)) return element\n    throw
NoSuchElementException("Array
contains no element matching the predicate.")\n}\n\n/**\n * Returns the first element matching the given
[predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun

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IntArray.first(predicate: (Int) -> Boolean): Int {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}
/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun LongArray.first(predicate: (Long) -> Boolean): Long {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}
/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun FloatArray.first(predicate: (Float) -> Boolean): Float {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}
/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun DoubleArray.first(predicate: (Double) -> Boolean): Double {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}
/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun BooleanArray.first(predicate: (Boolean) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}
/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun CharArray.first(predicate: (Char) -> Boolean): Char {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}
/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun <T> Array<out T>.firstOrNull(): T? {
    return if (isEmpty()) null else this[0]
}
/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun ByteArray.firstOrNull(): Byte? {
    return if (isEmpty()) null else this[0]
}
/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun ShortArray.firstOrNull(): Short? {
    return if (isEmpty()) null else this[0]
}
/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun IntArray.firstOrNull(): Int? {
    return if (isEmpty()) null else this[0]
}
/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun LongArray.firstOrNull(): Long? {
    return if (isEmpty()) null else this[0]
}
/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun FloatArray.firstOrNull(): Float? {
    return if (isEmpty()) null else this[0]
}
/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun DoubleArray.firstOrNull(): Double? {
    return if (isEmpty()) null else this[0]
}
/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun BooleanArray.firstOrNull(): Boolean? {
    return if (isEmpty()) null else this[0]
}
/**
 * Returns the first element matching the given [predicate], or `null` if element was not found.
 */
public inline fun <T> Array<out T>.firstOrNull(predicate: (T) -> Boolean): T? {
    for (element in this) if (predicate(element)) return element
    return null
}
/**
 * Returns the first element matching the given [predicate], or `null` if element was not found.
 */
public inline fun ByteArray.firstOrNull(predicate: (Byte) -> Boolean): Byte? {
    for (element in this) if (predicate(element)) return element
    return null
}
/**
 * Returns the first element matching the given [predicate], or `null` if element was not found.
 */
public inline fun ShortArray.firstOrNull(predicate: (Short) -> Boolean): Short? {
    for (element in this) if (predicate(element)) return element
    return null
}
/**
 * Returns the first element matching the given [predicate], or `null` if element was not found.
 */
public inline fun IntArray.firstOrNull(predicate: (Int) -> Boolean): Int? {
    for (element in this) if (predicate(element)) return element
    return null
}
/**
 * Returns the first element matching the given [predicate], or `null` if element was not found.
 */
public inline fun LongArray.firstOrNull(predicate: (Long) -> Boolean): Long? {
    for (element in this) if (predicate(element)) return element
    return null
}
/**
 * Returns the first element matching the given [predicate], or `null` if element was not found.
 */
public inline fun FloatArray.firstOrNull(predicate: (Float) -> Boolean): Float? {
    for (element in this) if (predicate(element))

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return element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n */\npublic inline fun DoubleArray.firstOrNull(predicate: (Double) -> Boolean): Double?
{\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun
BooleanArray.firstOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n    for (element
in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the first element matching the
given [predicate], or `null` if element was not found.\n */\npublic inline fun CharArray.firstOrNull(predicate: (Char)
-> Boolean): Char? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n *
Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.getOrNull(index: Int,
defaultValue: (Int) -> T): T? {\n    return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.getOrNull(index: Int, defaultValue: (Int) -> Byte): Byte? {\n    return if (index
>= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given
[index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.getOrNull(index: Int, defaultValue: (Int) -> Short):
Short? {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns
an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of
this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.getOrNull(index: Int, defaultValue: (Int) ->
Int): Int? {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n *
Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.getOrNull(index: Int, defaultValue: (Int) -> Long): Long? {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.getOrNull(index: Int, defaultValue: (Int) -> Float):
Float? {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns
an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of
this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.getOrNull(index: Int, defaultValue:
(Int) -> Double): Double? {\n    return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the
[index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.getOrNull(index: Int, defaultValue: (Int) -> Boolean): Boolean? {\n    return if (index >= 0 && index
<= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result
of calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.getOrNull(index: Int, defaultValue: (Int) -> Char):
Char? {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns
an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun <T> Array<out
T>.getOrNull(index: Int): T? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n *
Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun
ByteArray.getOrNull(index:
Int): Byte? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun
ShortArray.getOrNull(index: Int): Short? {\n    return if (index >= 0 && index <= lastIndex) get(index) else
null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n
*/\npublic fun IntArray.getOrNull(index: Int): Int? {\n    return if (index >= 0 && index <= lastIndex) get(index)

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else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this
array.\n */\npublic fun LongArray.getOrNull(index: Int): Long? {\n    return if (index >= 0 && index <= lastIndex)
get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of
this array.\n */\npublic fun FloatArray.getOrNull(index: Int): Float? {\n
    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun DoubleArray.getOrNull(index: Int):
Double? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun
BooleanArray.getOrNull(index: Int): Boolean? {\n    return if (index >= 0 && index <= lastIndex) get(index) else
null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n
*/\npublic fun CharArray.getOrNull(index: Int): Char? {\n    return if (index >= 0 && index <= lastIndex)
get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n
*/\npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.indexOf(element: T): Int {\n    if (element
== null) {\n        for (index in indices) {\n            if (this[index] == null) {\n                return index\n            }\n
        }\n    } else {\n        for (index in indices) {\n            if (element == this[index]) {\n                return index\n
            }\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain
element.\n */\npublic fun ByteArray.indexOf(element: Byte): Int {\n    for (index in indices) {\n        if (element ==
this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if
the array does not contain element.\n */\npublic fun ShortArray.indexOf(element: Short): Int {\n    for (index in
indices) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns
first index of [element], or -1 if the array does not contain element.\n */\npublic fun IntArray.indexOf(element:
Int): Int {\n    for (index in indices) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n
return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun
LongArray.indexOf(element: Long): Int {\n    for (index in indices) {\n        if (element == this[index]) {\n
return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not
contain element.\n */\npublic fun FloatArray.indexOf(element: Float): Int {\n    for (index in indices) {\n        if
(element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of
[element], or -1 if the array does not contain element.\n */\npublic fun DoubleArray.indexOf(element: Double): Int
{\n    for (index in indices) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -
1\n}\n\n/**\n * Returns
first index of [element], or -1 if the array does not contain element.\n */\npublic fun
BooleanArray.indexOf(element: Boolean): Int {\n    for (index in indices) {\n        if (element == this[index]) {\n
return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not
contain element.\n */\npublic fun CharArray.indexOf(element: Char): Int {\n    for (index in indices) {\n        if
(element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun <T>
Array<out T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n    for (index in indices) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not
contain such element.\n */\npublic inline fun ByteArray.indexOfFirst(predicate: (Byte) -> Boolean): Int {\n    for
(index in indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n *
Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\npublic inline fun ShortArray.indexOfFirst(predicate: (Short) -> Boolean): Int {\n    for (index in indices) {\n
if (predicate(this[index])) {\n        return index\n    }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
IntArray.indexOfFirst(predicate: (Int) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index]))
{\n        return index\n    }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the
given [predicate],

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Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun
ShortArray.last(): Short {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is
empty.\n */\npublic fun IntArray.last(): Int {\n    if (isEmpty())\n        throw NoSuchElementException("Array is
empty.")\n    return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException]
if the array is empty.\n */\npublic fun LongArray.last(): Long {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return this[lastIndex]\n}\n\n/**\n * Returns the last
element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun FloatArray.last(): Float {\n
    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return this[lastIndex]\n}\n\n/**\n
 * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun
DoubleArray.last(): Double {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is
empty.\n */\npublic fun BooleanArray.last(): Boolean {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n
 * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun CharArray.last(): Char {\n    if
(isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return this[lastIndex]\n}\n\n/**\n
 * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
 */\npublic inline fun <T> Array<out T>.last(predicate: (T) -> Boolean): T {\n    for (index in this.indices.reversed())
{\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
 */\npublic inline fun ByteArray.last(predicate: (Byte) -> Boolean): Byte {\n    for (index in this.indices.reversed())
{\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
 */\npublic inline fun ShortArray.last(predicate: (Short) -> Boolean): Short {\n    for (index in this.indices.reversed())
{\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
 */\npublic inline fun IntArray.last(predicate: (Int) -> Boolean): Int {\n    for (index in this.indices.reversed()) {\n
        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
 */\npublic inline
fun LongArray.last(predicate: (Long) -> Boolean): Long {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
 */\npublic inline fun FloatArray.last(predicate: (Float) -> Boolean): Float {\n    for (index in this.indices.reversed())
{\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
 */\npublic inline fun DoubleArray.last(predicate: (Double) -> Boolean): Double {\n    for (index in
this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n
    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
 */

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*^public inline fun BooleanArray.last(predicate: (Boolean) -> Boolean): Boolean {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}
* Returns the last element matching the given [predicate].
* @throws [NoSuchElementException] if no such element is found.

*^public inline fun CharArray.last(predicate: (Char) -> Boolean): Char {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}
* Returns last index of [element], or -1 if the array does not contain element.

*^public fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.lastIndexOf(element: T): Int {
    if (element == null) {
        for (index in indices.reversed()) {
            if (this[index] == null) {
                return index
            }
        }
    } else {
        for (index in indices.reversed()) {
            if (element == this[index]) {
                return index
            }
        }
    }
    return -1
}
* Returns last index of [element], or -1 if the array does not contain element.

*^public fun ByteArray.lastIndexOf(element: Byte): Int {
    for (index in indices.reversed()) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}
* Returns last index of [element], or -1 if the array does not contain element.

*^public fun ShortArray.lastIndexOf(element: Short): Int {
    for (index in indices.reversed()) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}
* Returns last index of [element], or -1 if the array does not contain element.

*^public fun IntArray.lastIndexOf(element: Int): Int {
    for (index in indices.reversed()) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}
* Returns last index of [element], or -1 if the array does not contain element.

*^public fun LongArray.lastIndexOf(element: Long): Int {
    for (index in indices.reversed()) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}
* Returns last index of [element], or -1 if the array does not contain element.

*^public fun FloatArray.lastIndexOf(element: Float): Int {
    for (index in indices.reversed()) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}
* Returns last index of [element], or -1 if the array does not contain element.

*^public fun DoubleArray.lastIndexOf(element: Double): Int {
    for (index in indices.reversed()) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}
* Returns last index of [element], or -1 if the array does not contain element.

*^public fun BooleanArray.lastIndexOf(element: Boolean): Int {
    for (index in indices.reversed()) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}
* Returns last index of [element], or -1 if the array does not contain element.

*^public fun CharArray.lastIndexOf(element: Char): Int {
    for (index in indices.reversed()) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}
* Returns the last element, or `null` if the array is empty.

*^public fun <T> Array<out T>.lastOrNull(): T? {
    return if (isEmpty()) null else this[size - 1]
}
* Returns the last element, or `null` if the array is empty.

*^public fun ByteArray.lastOrNull(): Byte? {
    return if (isEmpty()) null else this[size - 1]
}
* Returns the last element, or `null` if the array is empty.

*^public fun ShortArray.lastOrNull(): Short? {
    return if (isEmpty()) null else this[size - 1]
}
* Returns the last element, or `null` if the array is empty.

*^public fun IntArray.lastOrNull(): Int? {
    return if (isEmpty()) null else this[size - 1]
}
* Returns the last element, or `null` if the array is empty.

*^public fun LongArray.lastOrNull(): Long? {
    return if (isEmpty()) null else this[size - 1]
}
* Returns the last element, or `null` if the array is empty.

*^public fun FloatArray.lastOrNull(): Float? {
    return if (isEmpty()) null else this[size - 1]
}
* Returns the last element, or `null` if the array is empty.

*^public fun DoubleArray.lastOrNull(): Double? {
    return if (isEmpty()) null else this[size - 1]
}
* Returns the last element, or `null` if the array is empty.

*^public fun BooleanArray.lastOrNull(): Boolean? {
    return if (isEmpty()) null else this[size - 1]
}
* Returns the last element, or `null` if the array is empty.

*^public fun CharArray.lastOrNull(): Char? {
    return if (isEmpty()) null else this[size - 1]
}
* Returns the last element matching the given [predicate], or `null`

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if no such element was found.\n */\npublic inline fun <T> Array<out T>.lastOrNull(predicate: (T) -> Boolean): T?
{\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return
element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no
such element was found.\n */\npublic
inline fun ByteArray.lastOrNull(predicate: (Byte) -> Boolean): Byte? {\n    for (index in this.indices.reversed()) {\n
        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns
the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun
ShortArray.lastOrNull(predicate: (Short) -> Boolean): Short? {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun
IntArray.lastOrNull(predicate: (Int) -> Boolean): Int? {\n    for (index in this.indices.reversed()) {\n        val element
= this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element
matching the given [predicate], or `null`
if no such element was found.\n */\npublic inline fun LongArray.lastOrNull(predicate: (Long) -> Boolean): Long?
{\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return
element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no
such element was found.\n */\npublic inline fun FloatArray.lastOrNull(predicate: (Float) -> Boolean): Float? {\n
for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n
    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element
was found.\n */\npublic inline fun DoubleArray.lastOrNull(predicate: (Double) -> Boolean): Double? {\n    for
(index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n
    }\n    return null\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun
BooleanArray.lastOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n    for (index in this.indices.reversed()) {\n
        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns
the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun
CharArray.lastOrNull(predicate: (Char) -> Boolean): Char? {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns a
random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.random(): T {\n
return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.random(): Byte {\n    return
random(Random)\n}\n\n/**\n * Returns a random element from
this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.random(): Short {\n    return
random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.random(): Int {\n    return
random(Random)\n}\n\n/**\n * Returns a random element from this
array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.random(): Long {\n    return
random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.random(): Float {\n    return
random(Random)\n}\n\n/**\n * Returns a random element from
this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.random(): Double {\n
return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.random(): Boolean {\n    return
random(Random)\n}\n\n/**\n * Returns a random element

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from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.random(): Char {\n    return
random(Random)\n}\n\n/**\n * Returns a random element from this array
using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\npublic fun <T> Array<out T>.random(random: Random): T {\n    if (isEmpty())\n    throw NoSuchElementException("Array is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a
random element from this array using the specified source of randomness.\n * \n * @throws
NoSuchElementException if this array is empty.\n *\n@SinceKotlin("1.3")\npublic fun
ByteArray.random(random: Random): Byte {\n    if (isEmpty())\n        throw NoSuchElementException("Array is
empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the
specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\npublic fun ShortArray.random(random: Random): Short {\n    if (isEmpty())\n    throw
NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n *\n@SinceKotlin("1.3")\npublic fun
IntArray.random(random: Random): Int {\n    if (isEmpty())\n        throw NoSuchElementException("Array is
empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the
specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\npublic fun LongArray.random(random: Random): Long {\n    if (isEmpty())\n    throw
NoSuchElementException("Array is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a
random element from this array using the specified source of randomness.\n * \n * @throws
NoSuchElementException if this array is empty.\n *\n@SinceKotlin("1.3")\npublic fun
FloatArray.random(random: Random): Float {\n    if (isEmpty())\n        throw NoSuchElementException("Array is
empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the
specified source of randomness.\n * \n * @throws
NoSuchElementException if this array is empty.\n *\n@SinceKotlin("1.3")\npublic fun
DoubleArray.random(random: Random): Double {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n *\n@SinceKotlin("1.3")\npublic fun BooleanArray.random(random: Random): Boolean {\n
    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n *\n@SinceKotlin("1.3")\npublic
fun CharArray.random(random: Random): Char {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Array<out T>.randomOrNull(): T? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element
from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.randomOrNull(): Byte? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element
from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.randomOrNull(): Short? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.randomOrNull(): Int? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from
this array, or `null` if this array is empty.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.randomOrNull(): Long? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element
from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.randomOrNull(): Float? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element
from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.randomOrNull(): Double? {\n    return randomOrNull(Random)\n}\n\n/**\n
 * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.randomOrNull(): Boolean? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.randomOrNull(): Char? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element
from this array using the specified source of randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <T> Array<out T>.randomOrNull(random:
Random): T? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a
random element from this array using the specified source of randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic
fun ByteArray.randomOrNull(random: Random): Byte? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun
ShortArray.randomOrNull(random: Random): Short? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun
IntArray.randomOrNull(random: Random): Int? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic
fun LongArray.randomOrNull(random: Random): Long? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun
FloatArray.randomOrNull(random: Random): Float? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun
DoubleArray.randomOrNull(random: Random): Double? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun
BooleanArray.randomOrNull(random:
Random): Boolean? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n
Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun CharArray.randomOrNull(random: Random):
Char? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns the single
element, or throws an exception if the array is empty or has more than one element.\n
*\npublic fun <T> Array<out
T>.single(): T {\n    return when (size) {\n        0 -> throw NoSuchElementException("Array is empty.")\n        1 ->
this[0]\n        else -> throw IllegalArgumentException("Array has more than one element.")\n    }\n}\n\n/**\n *
Returns the single element, or throws an exception if the array is empty or has more than one element.\n
*\npublic
fun ByteArray.single(): Byte {\n    return when (size) {\n

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    0 -> throw NoSuchElementException("Array is empty.")\n    1 -> this[0]\n    else -> throw
IllegalArgumentException("Array has more than one element.")\n    }\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n */\npublic fun ShortArray.single(): Short
{\n    return when (size) {\n        0 -> throw NoSuchElementException("Array is empty.")\n        1 -> this[0]\n        else -> throw IllegalArgumentException("Array has more than one element.")\n    }\n}\n\n/**\n * Returns the
single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun
IntArray.single(): Int {\n    return when (size) {\n        0 -> throw NoSuchElementException("Array is empty.")\n        1 -> this[0]\n        else -> throw IllegalArgumentException("Array has more than one element.")\n    }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more
than one element.\n */\npublic fun LongArray.single(): Long {\n    return when (size) {\n        0 -> throw
NoSuchElementException("Array is empty.")\n        1 -> this[0]\n        else -> throw
IllegalArgumentException("Array has more than one element.")\n    }\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n */\npublic fun FloatArray.single(): Float
{\n    return when (size) {\n        0 -> throw NoSuchElementException("Array is empty.")\n        1 -> this[0]\n        else -> throw IllegalArgumentException("Array has more than one element.")\n    }\n}\n\n/**\n * Returns the
single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun
DoubleArray.single(): Double {\n    return when (size) {\n        0 -> throw NoSuchElementException("Array is
empty.")\n        1 -> this[0]\n        else -> throw IllegalArgumentException("Array has more than one element.")\n    }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one
element.\n */\npublic fun BooleanArray.single(): Boolean {\n    return when (size) {\n        0 -> throw
NoSuchElementException("Array is empty.")\n        1 -> this[0]\n        else -> throw
IllegalArgumentException("Array has more than one element.")\n    }\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n */\npublic fun CharArray.single(): Char
{\n    return when (size) {\n        0 -> throw NoSuchElementException("Array is empty.")\n        1 -> this[0]\n        else -> throw IllegalArgumentException("Array has more than one element.")\n    }\n}\n\n/**\n * Returns the
single element matching the given [predicate], or throws exception if there is no or more than one matching
element.\n */\npublic inline fun <T> Array<out T>.single(predicate: (T) -> Boolean): T {\n    var single: T? = null\n
\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw
IllegalArgumentException("Array contains more than one matching element.")\n            single = element\n
\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as T\n}\n\n/**\n * Returns the single
element matching the given [predicate], or throws exception if there is no or more than one matching element.\n
*/\npublic inline fun ByteArray.single(predicate: (Byte) -> Boolean): Byte {\n    var single: Byte? = null\n    var
found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw
IllegalArgumentException("Array contains more than one matching element.")\n            single = element\n
\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Array contains
no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as
Byte\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or
more than one matching element.\n */\npublic inline fun ShortArray.single(predicate: (Short) -> Boolean): Short {\n
    var single: Short? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if
(found) throw IllegalArgumentException("Array contains more than one matching element.")\n            single =
element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Array contains no
element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as Short\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one
matching element.\n */\npublic inline fun IntArray.single(predicate: (Int) -> Boolean):
Int {\n    var single: Int? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array contains more than one matching element.")\n            single =

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element\n        found = true\n        }\n        }\n        if (!found) throw NoSuchElementException("Array contains no
element matching the predicate.")\n        @Suppress("UNCHECKED_CAST")\n        return single as Int\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one
matching element.\n */\npublic inline fun LongArray.single(predicate: (Long) -> Boolean): Long {\n    var single:
Long? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found)
throw IllegalArgumentException("Array contains more than one matching element.")\n            single = element\n
found = true\n        }\n    }\n    if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as Long\n}\n\n/**\n * Returns the single element matching
the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun
FloatArray.single(predicate: (Float) -> Boolean): Float {\n    var single: Float? = null\n    var found = false\n    for
(element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array
contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as Float\n}\n\n/**\n * Returns the single element matching
the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline
fun DoubleArray.single(predicate: (Double) -> Boolean): Double {\n    var single: Double? = null\n    var found =
false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw
IllegalArgumentException("Array contains more than one matching element.")\n            single = element\n
found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as Double\n}\n\n/**\n * Returns the
single element matching the given [predicate], or throws exception if there is no or more than one matching
element.\n */\npublic inline fun BooleanArray.single(predicate: (Boolean) -> Boolean): Boolean {\n    var single:
Boolean? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found)
throw IllegalArgumentException("Array contains more than one matching element.")\n            single = element\n
found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as Boolean\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no
or more than one matching element.\n */\npublic inline fun CharArray.single(predicate: (Char) -> Boolean): Char
{\n    var single: Char? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw
IllegalArgumentException("Array contains more than one matching element.")\n            single =
element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Array contains no
element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as Char\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than
one element.\n */\npublic fun <T> Array<out T>.singleOrNull(): T? {\n    return if (size == 1) this[0] else
null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic
fun ByteArray.singleOrNull(): Byte? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single
element, or `null` if the array is empty or has more than one element.\n */\npublic fun ShortArray.singleOrNull():
Short? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty
or has more than one element.\n */\npublic fun IntArray.singleOrNull(): Int? {\n    return if (size == 1) this[0] else
null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic
fun LongArray.singleOrNull(): Long? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single
element, or `null` if the array is empty or has more than one element.\n */\npublic fun FloatArray.singleOrNull(): Float? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns
single element, or `null` if the array is empty or has more than one element.\n */\npublic fun
DoubleArray.singleOrNull(): Double? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single
element, or `null` if the array is empty or has more than one element.\n */\npublic fun BooleanArray.singleOrNull():
Boolean? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is

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empty or has more than one element.\n */\npublic fun CharArray.singleOrNull(): Char? {\n    return if (size == 1)\n        this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not\n * found or more than one element was found.\n */\npublic inline fun <T> Array<out T>.singleOrNull(predicate: (T) -\n * > Boolean): T? {\n    var single: T? = null\n    var found = false\n    for (element in this)\n    {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given\n * [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun\n * ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Byte? {\n    var single: Byte? = null\n    var found = false\n    for (element in this)\n    {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element\n * matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic\n * inline fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {\n    var single: Short? = null\n    var\n * found = false\n    for\n * (element in this)\n    {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element\n * matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic\n * inline fun IntArray.singleOrNull(predicate: (Int) -> Boolean): Int? {\n    var single: Int? = null\n    var found =\n * false\n    for (element in this)\n    {\n        if (predicate(element)) {\n            if (found) return null\n            single =\n * element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the\n * single element matching the given [predicate], or `null` if element was not found or more than one element was\n * found.\n */\npublic inline fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {\n    var single:\n * Long? = null\n    var found = false\n    for (element in this)\n    {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element\n * matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic\n * inline fun FloatArray.singleOrNull(predicate: (Float) -> Boolean): Float? {\n    var single: Float? = null\n    var\n * found = false\n    for (element in this)\n    {\n        if (predicate(element)) {\n            if (found) return null\n            single\n * = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the\n * single element matching the given [predicate], or `null` if element was not found or more than one element was\n * found.\n */\npublic inline fun DoubleArray.singleOrNull(predicate: (Double) -> Boolean): Double? {\n    var single:\n * Double? = null\n    var found = false\n    for (element in this)\n    {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one\n * element was found.\n */\npublic inline fun BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean?\n * {\n    var single: Boolean? = null\n    var found = false\n    for (element in this)\n    {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not\n * found or more than one element was found.\n */\npublic inline fun CharArray.singleOrNull(predicate: (Char) ->\n * Boolean): Char? {\n    var single:\n * Char? = null\n    var found = false\n    for (element in this)\n    {\n        if (predicate(element)) {\n            if (found)\n * return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return\n * single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws\n * IllegalArgumentException if [n] is negative.\n * \n * @sample\n * samples.collections.Transformations.drop\n */\npublic fun <T> Array<out T>.drop(n: Int): List<T> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    return takeLast((size -\n * n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws\n * IllegalArgumentException if [n] is negative.\n * \n * @sample

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samples.collections.Collections.Transformations.drop\n *\npublic fun ByteArray.drop(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n
    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n]
elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun ShortArray.drop(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun IntArray.drop(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\npublic fun LongArray.drop(n: Int): List<Long> {\n    require(n >= 0) { \"Requested element count $n is less
than zero.\" }\n    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements
except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun FloatArray.drop(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun DoubleArray.drop(n: Int): List<Double> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun BooleanArray.drop(n: Int): List<Boolean> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n]
elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun CharArray.drop(n: Int): List<Char> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\npublic fun <T> Array<out T>.dropLast(n: Int): List<T> {\n    require(n >= 0) { \"Requested element count $n is
less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements
except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun ByteArray.dropLast(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun ShortArray.dropLast(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list
containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n
*\n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun IntArray.dropLast(n: Int):
List<Int> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample

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samples.collections.Collections.Transformations.drop\n *\npublic fun LongArray.dropLast(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun FloatArray.dropLast(n:
Int): List<Float> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun DoubleArray.dropLast(n: Int): List<Double>
{\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun BooleanArray.dropLast(n: Int):
List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun CharArray.dropLast(n: Int): List<Char> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic inline fun <T>
Array<out T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns
a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun ByteArray.dropLastWhile(predicate:
(Byte)
-> Boolean): List<Byte> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun ShortArray.dropLastWhile(predicate:
(Short) -> Boolean): List<Short> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun IntArray.dropLastWhile(predicate:
(Int) -> Boolean): List<Int> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index
+ 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements
that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\npublic inline fun LongArray.dropLastWhile(predicate: (Long) -> Boolean): List<Long> {\n for (index in
lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic inline fun
FloatArray.dropLastWhile(predicate: (Float) -> Boolean): List<Float> {\n for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n *
Returns a list containing all elements except last elements that satisfy
the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic inline
fun DoubleArray.dropLastWhile(predicate: (Double) -> Boolean): List<Double> {\n for (index in lastIndex
downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given

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[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic inline fun
BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n  for (index in lastIndex
downTo 0) {\n    if (!predicate(this[index])) {\n      return take(index + 1)\n    }\n  }\n  return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic inline fun
CharArray.dropLastWhile(predicate:
(Char) -> Boolean): List<Char> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n
return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun <T> Array<out
T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n  var yielding = false\n  val list = ArrayList<T>()\n  for
(item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n      list.add(item)\n
yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all elements except first elements that
satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic
inline fun ByteArray.dropWhile(predicate: (Byte) -> Boolean):
List<Byte> {\n  var yielding = false\n  val list = ArrayList<Byte>()\n  for (item in this)\n    if (yielding)\n
list.add(item)\n    else if (!predicate(item)) {\n      list.add(item)\n      yielding = true\n    }\n  return
list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n *
@sample samples.collections.Collections.Transformations.drop\n *\npublic inline fun
ShortArray.dropWhile(predicate: (Short) -> Boolean): List<Short> {\n  var yielding = false\n  val list =
ArrayList<Short>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item))
{\n      list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic
inline fun IntArray.dropWhile(predicate: (Int) -> Boolean): List<Int> {\n  var yielding = false\n  val list =
ArrayList<Int>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n
list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all elements
except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun LongArray.dropWhile(predicate:
(Long) -> Boolean): List<Long> {\n  var yielding = false\n  val list = ArrayList<Long>()\n  for (item in this)\n
if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n      list.add(item)\n      yielding =
true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\npublic inline fun FloatArray.dropWhile(predicate: (Float) -> Boolean): List<Float> {\n  var yielding = false\n
val list = ArrayList<Float>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if
(!predicate(item)) {\n      list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list
containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun DoubleArray.dropWhile(predicate:
(Double) -> Boolean): List<Double> {\n  var yielding = false\n  val list = ArrayList<Double>()\n  for (item in
this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n      list.add(item)\n
yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all elements except first elements that
satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic
inline fun BooleanArray.dropWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n  var yielding = false\n
val list = ArrayList<Boolean>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if
(!predicate(item)) {\n      list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list
containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun CharArray.dropWhile(predicate:
(Char) -> Boolean): List<Char> {\n  var yielding = false\n  val list = ArrayList<Char>()\n  for (item in this)\n

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if (yielding)\n      list.add(item)\n      else if (!predicate(item)) {\n          list.add(item)\n          yielding =
true\n      }\n      return list\n  }\n  **\n
* Returns a list containing only elements matching the given [predicate].\n *^\npublic inline fun <T> Array<out
T>.filter(predicate: (T) -> Boolean): List<T> {\n      return filterTo(ArrayList<T>(), predicate)\n  }\n  **\n
* Returns a list containing only elements matching the given [predicate].\n *^\npublic inline fun ByteArray.filter(predicate:
(Byte) -> Boolean): List<Byte> {\n      return filterTo(ArrayList<Byte>(), predicate)\n  }\n  **\n
* Returns a list containing only elements matching the given [predicate].\n *^\npublic inline fun ShortArray.filter(predicate: (Short)
-> Boolean): List<Short> {\n      return filterTo(ArrayList<Short>(), predicate)\n  }\n  **\n
* Returns a list containing only elements matching the given [predicate].\n *^\npublic inline fun IntArray.filter(predicate: (Int) -> Boolean):
List<Int> {\n      return filterTo(ArrayList<Int>(), predicate)\n  }\n  **\n
* Returns a list containing only elements matching the given [predicate].\n *^\npublic inline fun LongArray.filter(predicate:
(Long) -> Boolean): List<Long> {\n      return filterTo(ArrayList<Long>(), predicate)\n  }\n  **\n
* Returns a list containing only elements matching the given [predicate].\n *^\npublic inline fun FloatArray.filter(predicate: (Float) -
> Boolean): List<Float> {\n      return filterTo(ArrayList<Float>(), predicate)\n  }\n  **\n
* Returns a list containing only elements matching the given [predicate].\n *^\npublic inline fun DoubleArray.filter(predicate: (Double) ->
Boolean): List<Double> {\n      return filterTo(ArrayList<Double>(), predicate)\n  }\n  **\n
* Returns a list containing only elements matching the given [predicate].\n *^\npublic inline fun BooleanArray.filter(predicate:
(Boolean) -> Boolean): List<Boolean> {\n      return filterTo(ArrayList<Boolean>(), predicate)\n  }\n  **\n
* Returns a list containing only elements matching the given [predicate].\n *^\npublic inline fun CharArray.filter(predicate:
(Char) -> Boolean): List<Char> {\n      return filterTo(ArrayList<Char>(), predicate)\n  }\n  **\n
* Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes
the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n
*^\npublic inline fun <T> Array<out T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n      return
filterIndexedTo(ArrayList<T>(), predicate)\n  }\n  **\n
* Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns
the result of predicate evaluation on the element.\n *^\npublic inline fun ByteArray.filterIndexed(predicate: (index:
Int, Byte) -> Boolean): List<Byte> {\n      return filterIndexedTo(ArrayList<Byte>(), predicate)\n  }\n  **\n
Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes
the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n *^\npublic inline fun ShortArray.filterIndexed(predicate:
(index: Int, Short) -> Boolean): List<Short> {\n      return filterIndexedTo(ArrayList<Short>(), predicate)\n  }\n  **\n
* Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes
the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n
*^\npublic inline fun IntArray.filterIndexed(predicate: (index: Int, Int) -> Boolean): List<Int> {\n      return
filterIndexedTo(ArrayList<Int>(), predicate)\n  }\n  **\n
* Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n *^\npublic inline fun LongArray.filterIndexed(predicate:
(index: Int, Long) -> Boolean): List<Long> {\n      return filterIndexedTo(ArrayList<Long>(),
predicate)\n  }\n  **\n
* Returns a list containing only elements matching the given [predicate].\n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n *^\npublic inline fun FloatArray.filterIndexed(predicate: (index: Int, Float) -> Boolean):
List<Float> {\n      return filterIndexedTo(ArrayList<Float>(), predicate)\n  }\n  **\n
* Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n *^\npublic inline fun
DoubleArray.filterIndexed(predicate: (index: Int, Double) -> Boolean): List<Double> {\n      return
filterIndexedTo(ArrayList<Double>(), predicate)\n  }\n  **\n
* Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element

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and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun
BooleanArray.filterIndexed(predicate: (index: Int, Boolean) -> Boolean): List<Boolean> {\n    return
filterIndexedTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching
the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n *
and returns the result of predicate evaluation on the element.\n */\npublic inline fun
CharArray.filterIndexed(predicate: (index: Int, Char) -> Boolean): List<Char> {\n    return
filterIndexedTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to
the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n *
and returns the result of predicate evaluation on the element.\n */\npublic inline fun <T, C : MutableCollection<in
T>> Array<out T>.filterIndexedTo(destination:
C, predicate: (index: Int, T) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index,
element)) destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the
given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and
the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C :
MutableCollection<in Byte>> ByteArray.filterIndexedTo(destination: C, predicate: (index: Int, Byte) -> Boolean):
C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n
return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n */\npublic
inline fun <C : MutableCollection<in Short>> ShortArray.filterIndexedTo(destination: C, predicate: (index: Int,
Short) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element))
destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C :
MutableCollection<in Int>> IntArray.filterIndexedTo(destination: C, predicate: (index: Int, Int) -> Boolean): C {\n
forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns
the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Long>>
LongArray.filterIndexedTo(destination: C, predicate: (index: Int, Long) -> Boolean): C {\n    forEachIndexed {
index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function
that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the
element.\n */\npublic inline fun <C : MutableCollection<in Float>>
FloatArray.filterIndexedTo(destination: C, predicate: (index: Int, Float) -> Boolean): C {\n    forEachIndexed {
index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function
that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the
element.\n */\npublic inline fun <C : MutableCollection<in Double>> DoubleArray.filterIndexedTo(destination: C,
predicate: (index: Int, Double) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index,
element)) destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the
given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and
the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C :
MutableCollection<in Boolean>> BooleanArray.filterIndexedTo(destination: C, predicate: (index: Int, Boolean) ->
Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element))
destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching

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given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Long>>
LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Float>>
FloatArray.filterNotTo(destination: C, predicate: (Float) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in
Double>> DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given
[predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Boolean>>
BooleanArray.filterNotTo(destination: C, predicate: (Boolean) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Char>>
CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n */\npublic inline fun <T, C : MutableCollection<in T>> Array<out
T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n  for (element in this) if (predicate(element))
destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching the given [predicate]
to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Byte>>
ByteArray.filterTo(destination: C, predicate: (Byte) -> Boolean): C {\n  for (element in this) if (predicate(element))
destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to
the given [destination].\n */\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterTo(destination:
C, predicate: (Short) -> Boolean): C {\n  for (element in this) if (predicate(element)) destination.add(element)\n
return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n
*/\npublic inline fun <C : MutableCollection<in Int>> IntArray.filterTo(destination: C, predicate: (Int) -> Boolean):
C {\n  for (element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n
* Appends all elements matching the given [predicate] to the given [destination].\n */\npublic
inline fun <C : MutableCollection<in Long>> LongArray.filterTo(destination: C, predicate: (Long) -> Boolean): C
{\n  for (element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n
* Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C :
MutableCollection<in Float>> FloatArray.filterTo(destination: C, predicate: (Float) -> Boolean): C {\n  for
(element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C :
MutableCollection<in Double>> DoubleArray.filterTo(destination: C, predicate: (Double) -> Boolean): C {\n  for
(element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C :
MutableCollection<in
Boolean>> BooleanArray.filterTo(destination: C, predicate: (Boolean) -> Boolean): C {\n  for (element in this) if
(predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Char>>
CharArray.filterTo(destination: C, predicate: (Char) -> Boolean): C {\n  for (element in this) if
(predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Returns a list containing elements
at indices in the specified [indices] range.\n */\npublic fun <T> Array<out T>.slice(indices: IntRange): List<T> {\n
if (indices.isEmpty()) return listOf()\n  return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic
fun ByteArray.slice(indices: IntRange): List<Byte> {\n  if (indices.isEmpty()) return listOf()\n

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fun <T> Array<T>.sliceArray(indices: Collection<Int>): Array<T> {\n  val result = arrayOfNulls(this,
indices.size)\n  var targetIndex = 0\n  for (sourceIndex in indices) {\n    result[targetIndex++] =
this[sourceIndex]\n  }\n  return result\n}\n\n/**\n * Returns an array containing elements of this array at specified
[indices].\n */\npublic fun ByteArray.sliceArray(indices: Collection<Int>): ByteArray {\n  val result =
ByteArray(indices.size)\n  var targetIndex = 0\n  for (sourceIndex in indices) {\n    result[targetIndex++] =
this[sourceIndex]\n  }\n  return result\n}\n\n/**\n * Returns an array
containing elements of this array at specified [indices].\n */\npublic fun ShortArray.sliceArray(indices:
Collection<Int>): ShortArray {\n  val result = ShortArray(indices.size)\n  var targetIndex = 0\n  for (sourceIndex
in indices) {\n    result[targetIndex++] = this[sourceIndex]\n  }\n  return result\n}\n\n/**\n * Returns an array
containing elements of this array at specified [indices].\n */\npublic fun IntArray.sliceArray(indices:
Collection<Int>): IntArray {\n  val result = IntArray(indices.size)\n  var targetIndex = 0\n  for (sourceIndex in
indices) {\n    result[targetIndex++] = this[sourceIndex]\n  }\n  return result\n}\n\n/**\n * Returns an array
containing elements of this array at specified [indices].\n */\npublic fun LongArray.sliceArray(indices:
Collection<Int>): LongArray {\n  val result = LongArray(indices.size)\n  var targetIndex = 0\n  for (sourceIndex
in indices) {\n    result[targetIndex++] = this[sourceIndex]\n  }\n  return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
FloatArray.sliceArray(indices: Collection<Int>): FloatArray {\n  val result = FloatArray(indices.size)\n  var
targetIndex = 0\n  for (sourceIndex in indices) {\n    result[targetIndex++] = this[sourceIndex]\n  }\n  return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
DoubleArray.sliceArray(indices: Collection<Int>): DoubleArray {\n  val result = DoubleArray(indices.size)\n
var targetIndex = 0\n  for (sourceIndex in indices) {\n    result[targetIndex++] = this[sourceIndex]\n  }\n
return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
BooleanArray.sliceArray(indices: Collection<Int>): BooleanArray {\n  val result = BooleanArray(indices.size)\n
var targetIndex = 0\n  for (sourceIndex in indices) {\n    result[targetIndex++]
= this[sourceIndex]\n  }\n  return result\n}\n\n/**\n * Returns an array containing elements of this array at
specified [indices].\n */\npublic fun CharArray.sliceArray(indices: Collection<Int>): CharArray {\n  val result =
CharArray(indices.size)\n  var targetIndex = 0\n  for (sourceIndex in indices) {\n    result[targetIndex++] =
this[sourceIndex]\n  }\n  return result\n}\n\n/**\n * Returns an array containing elements at indices in the
specified [indices] range.\n */\npublic fun <T> Array<T>.sliceArray(indices: IntRange): Array<T> {\n  if
(indices.isEmpty()) return copyOfRange(0, 0)\n  return copyOfRange(indices.start, indices.endInclusive +
1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun
ByteArray.sliceArray(indices: IntRange): ByteArray {\n  if (indices.isEmpty()) return ByteArray(0)\n  return
copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns
an array containing elements at indices in the specified [indices] range.\n */\npublic fun
ShortArray.sliceArray(indices: IntRange): ShortArray {\n  if (indices.isEmpty()) return ShortArray(0)\n  return
copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices
in the specified [indices] range.\n */\npublic fun IntArray.sliceArray(indices: IntRange): IntArray {\n  if
(indices.isEmpty()) return IntArray(0)\n  return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n
* Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun
LongArray.sliceArray(indices: IntRange): LongArray {\n  if (indices.isEmpty()) return LongArray(0)\n  return
copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices
in the specified [indices] range.\n */\npublic fun FloatArray.sliceArray(indices: IntRange): FloatArray {\n  if
(indices.isEmpty())
return FloatArray(0)\n  return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array
containing elements at indices in the specified [indices] range.\n */\npublic fun DoubleArray.sliceArray(indices:
IntRange): DoubleArray {\n  if (indices.isEmpty()) return DoubleArray(0)\n  return copyOfRange(indices.start,
indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices]
range.\n */\npublic fun BooleanArray.sliceArray(indices: IntRange): BooleanArray {\n  if (indices.isEmpty())

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return BooleanArray(0)\n    return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an
array containing elements at indices in the specified [indices] range.\n */\npublic fun CharArray.sliceArray(indices:
IntRange): CharArray {\n    if (indices.isEmpty()) return CharArray(0)\n    return copyOfRange(indices.start,
indices.endInclusive + 1)\n}\n\n/**\n * Returns a list containing first [n] elements.\n
*\n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.take(n: Int): List<T> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<T>(n)\n    for
(item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun ByteArray.take(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count
= 0\n    val list = ArrayList<Byte>(n)\n    for (item in this) {\n        list.add(item)\n        if (++count == n)\n
break\n    }\n    return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun ShortArray.take(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Short>(n)\n    for
(item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun IntArray.take(n:
Int): List<Int> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return
emptyList()\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list =
ArrayList<Int>(n)\n    for (item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return
list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is
negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun
LongArray.take(n: Int): List<Long> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if
(n == 0) return emptyList()\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n
val list = ArrayList<Long>(n)\n    for (item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n
    }\n    return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun FloatArray.take(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Float>(n)\n    for
(item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun DoubleArray.take(n: Int): List<Double> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if
(n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Double>(n)\n    for (item in this) {\n
list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns a list containing first
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun BooleanArray.take(n: Int): List<Boolean> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Boolean>(n)\n
for (item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n *
Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * \n *

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@sample samples.collections.Collections.Transformations.take\n
*/\npublic fun CharArray.take(n: Int): List<Char> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[0])\n  var count = 0\n  val list = ArrayList<Char>(n)\n  for (item in this) {\n    list.add(item)\n    if (++count == n)\n      break\n  }\n  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws\n * IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*/\npublic fun <T> Array<out T>.takeLast(n: Int): List<T>\n{\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val\n  size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list =\n  ArrayList<T>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if\n * [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*/\npublic fun\n * ByteArray.takeLast(n: Int): List<Byte> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if\n  (n == 0) return emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return\n  listOf(this[size - 1])\n  val list = ArrayList<Byte>(n)\n  for (index in size - n until size)\n  list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws\n * IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*/\npublic fun\n * ShortArray.takeLast(n: Int): List<Short> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if\n  (n == 0) return emptyList()\n  val size =\n  size\n  if (n\n  >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list = ArrayList<Short>(n)\n  for (index\n  in size - n until size)\n  list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last [n]\n * elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*/\npublic fun\n * IntArray.takeLast(n: Int): List<Int> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if\n  (n == 0) return emptyList()\n  val size =\n  size\n  if (n\n  >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list = ArrayList<Int>(n)\n  for (index\n  in size - n until size)\n  list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last\n * [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*/\npublic fun\n * LongArray.takeLast(n:\n * Int): List<Long> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if\n  (n == 0) return\n  emptyList()\n  val size =\n  size\n  if (n\n  >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list\n  = ArrayList<Long>(n)\n  for (index in size - n until size)\n  list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws\n * IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*/\npublic fun\n * FloatArray.takeLast(n: Int):\n * List<Float> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if\n  (n == 0) return\n  emptyList()\n  val size =\n  size\n  if (n\n  >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list\n  = ArrayList<Float>(n)\n  for (index in size - n until size)\n  list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last\n * [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*/\npublic fun\n * DoubleArray.takeLast(n: Int): List<Double>\n * {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if\n  (n == 0) return emptyList()\n  val\n  size = size\n  if (n\n  >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list =\n  ArrayList<Double>(n)\n  for (index in size - n until size)\n  list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws\n * IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*/\npublic fun\n * BooleanArray.takeLast(n: Int):\n * List<Boolean> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if\n  (n == 0) return\n  emptyList()\n  val size =\n  size\n  if (n\n  >= size) return toList()\n  if (n == 1) return listOf(this[size

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- 1])\n  val list = ArrayList<Boolean>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return
list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is
negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun
CharArray.takeLast(n: Int): List<Char> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n
if (n == 0) return emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return
listOf(this[size - 1])\n  val list = ArrayList<Char>(n)\n  for (index in size - n until size)\n
list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T>
Array<out T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n  for (index
in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n      return drop(index + 1)\n    }\n  }\n  return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic inline fun ByteArray.takeLastWhile(predicate:
(Byte) -> Boolean): List<Byte> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n
return drop(index + 1)\n    }\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing last elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic
inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {\n  for (index in lastIndex
downTo 0) {\n    if (!predicate(this[index])) {\n      return drop(index + 1)\n    }\n  }\n  return
toList()\n}\n\n/**\n * Returns a list containing last
elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*/\npublic inline fun IntArray.takeLastWhile(predicate: (Int) -> Boolean): List<Int> {\n  for (index in lastIndex
downTo 0) {\n    if (!predicate(this[index])) {\n      return drop(index + 1)\n    }\n  }\n  return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic inline fun LongArray.takeLastWhile(predicate:
(Long) -> Boolean): List<Long> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n
return drop(index + 1)\n    }\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing last elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic
inline fun FloatArray.takeLastWhile(predicate: (Float) -> Boolean):
List<Float> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n      return drop(index
+ 1)\n    }\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun
DoubleArray.takeLastWhile(predicate: (Double) -> Boolean): List<Double> {\n  for (index in lastIndex downTo
0) {\n    if (!predicate(this[index])) {\n      return drop(index + 1)\n    }\n  }\n  return toList()\n}\n\n/**\n
* Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic inline fun
BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n  for (index in lastIndex
downTo 0) {\n    if (!predicate(this[index])) {\n      return drop(index + 1)\n    }\n  }\n  return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic inline fun CharArray.takeLastWhile(predicate:
(Char) -> Boolean): List<Char> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n
return drop(index + 1)\n    }\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing first elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic
inline fun <T> Array<out T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n  val list = ArrayList<T>()\n  for
(item in this) {\n    if (!predicate(item))\n      break\n    list.add(item)\n  }\n  return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic inline fun ByteArray.takeWhile(predicate:
(Byte) -> Boolean): List<Byte> {\n  val list = ArrayList<Byte>()\n  for (item in this) {\n    if
(!predicate(item))\n      break\n    list.add(item)\n  }\n  return list\n}\n\n/**\n * Returns a list containing first

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elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*\npublic inline fun ShortArray.takeWhile(predicate: (Short) -> Boolean): List<Short> {\n  val list =
ArrayList<Short>()\n  for (item in this) {\n    if (!predicate(item))\n      break\n    list.add(item)\n  }\n  return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun IntArray.takeWhile(predicate: (Int) ->
Boolean): List<Int> {\n  val list = ArrayList<Int>()\n  for (item in this) {\n    if (!predicate(item))\n
break\n    list.add(item)\n  }\n  return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n *
@sample samples.collections.Collections.Transformations.take\n *\npublic inline fun
LongArray.takeWhile(predicate: (Long) -> Boolean): List<Long> {\n  val list = ArrayList<Long>()\n  for (item
in this) {\n    if (!predicate(item))\n      break\n    list.add(item)\n  }\n  return list\n}\n\n/**\n * Returns a
list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun FloatArray.takeWhile(predicate:
(Float) -> Boolean): List<Float> {\n  val list = ArrayList<Float>()\n  for (item in this) {\n    if
(!predicate(item))\n      break\n    list.add(item)\n  }\n  return list\n}\n\n/**\n * Returns a list containing first
elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*\npublic
inline fun DoubleArray.takeWhile(predicate: (Double) -> Boolean): List<Double> {\n  val list =
ArrayList<Double>()\n  for (item in this) {\n    if (!predicate(item))\n      break\n    list.add(item)\n  }\n
return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun BooleanArray.takeWhile(predicate:
(Boolean) -> Boolean): List<Boolean> {\n  val list = ArrayList<Boolean>()\n  for (item in this) {\n    if
(!predicate(item))\n      break\n    list.add(item)\n  }\n  return list\n}\n\n/**\n * Returns a list containing first
elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*\npublic inline fun CharArray.takeWhile(predicate: (Char) -> Boolean): List<Char> {\n  val list =
ArrayList<Char>()\n  for (item in this) {\n    if (!predicate(item))\n
break\n    list.add(item)\n  }\n  return list\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\npublic fun <T> Array<T>.reverse(): Unit {\n  val midPoint = (size / 2) - 1\n  if (midPoint < 0) return\n  var
reverseIndex = lastIndex\n  for (index in 0..midPoint) {\n    val tmp = this[index]\n    this[index] =
this[reverseIndex]\n    this[reverseIndex] = tmp\n    reverseIndex--\n  }\n}\n\n/**\n * Reverses elements in the
array in-place.\n *\npublic fun ByteArray.reverse(): Unit {\n  val midPoint = (size / 2) - 1\n  if (midPoint < 0)
return\n  var reverseIndex = lastIndex\n  for (index in 0..midPoint) {\n    val tmp = this[index]\n    this[index]
= this[reverseIndex]\n    this[reverseIndex] = tmp\n    reverseIndex--\n  }\n}\n\n/**\n * Reverses elements in
the array in-place.\n *\npublic fun ShortArray.reverse(): Unit {\n  val midPoint = (size / 2) - 1\n  if (midPoint <
0) return\n  var reverseIndex
= lastIndex\n  for (index in 0..midPoint) {\n    val tmp = this[index]\n    this[index] = this[reverseIndex]\n
this[reverseIndex] = tmp\n    reverseIndex--\n  }\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\npublic fun IntArray.reverse(): Unit {\n  val midPoint = (size / 2) - 1\n  if (midPoint < 0) return\n  var
reverseIndex = lastIndex\n  for (index in 0..midPoint) {\n    val tmp = this[index]\n    this[index] =
this[reverseIndex]\n    this[reverseIndex] = tmp\n    reverseIndex--\n  }\n}\n\n/**\n * Reverses elements in the
array in-place.\n *\npublic fun LongArray.reverse(): Unit {\n  val midPoint = (size / 2) - 1\n  if (midPoint < 0)
return\n  var reverseIndex = lastIndex\n  for (index in 0..midPoint) {\n    val tmp = this[index]\n    this[index]
= this[reverseIndex]\n    this[reverseIndex] = tmp\n    reverseIndex--\n  }\n}\n\n/**\n * Reverses elements in
the array in-place.\n *\npublic fun
FloatArray.reverse(): Unit {\n  val midPoint = (size / 2) - 1\n  if (midPoint < 0) return\n  var reverseIndex =
lastIndex\n  for (index in 0..midPoint) {\n    val tmp = this[index]\n    this[index] = this[reverseIndex]\n
this[reverseIndex] = tmp\n    reverseIndex--\n  }\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\npublic fun DoubleArray.reverse(): Unit {\n  val midPoint = (size / 2) - 1\n  if (midPoint < 0) return\n  var

```

```

reverseIndex = lastIndex\n for (index in 0..midPoint) {\n     val tmp = this[index]\n     this[index] =
this[reverseIndex]\n     this[reverseIndex] = tmp\n     reverseIndex--\n } }\n\n/**\n * Reverses elements in the
array in-place.\n */\npublic fun BooleanArray.reverse(): Unit {\n     val midPoint = (size / 2) - 1\n     if (midPoint < 0)
return\n     var reverseIndex = lastIndex\n     for (index in 0..midPoint) {\n         val tmp = this[index]\n         this[index]
= this[reverseIndex]\n         this[reverseIndex]
= tmp\n         reverseIndex--\n     } }\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun
CharArray.reverse(): Unit {\n     val midPoint = (size / 2) - 1\n     if (midPoint < 0) return\n     var reverseIndex =
lastIndex\n     for (index in 0..midPoint) {\n         val tmp = this[index]\n         this[index] = this[reverseIndex]\n
this[reverseIndex] = tmp\n         reverseIndex--\n     } }\n\n/**\n * Returns a list with elements in reversed order.\n
*/\npublic fun <T> Array<out T>.reversed(): List<T> {\n     if (isEmpty()) return emptyList()\n     val list =
toMutableList()\n     list.reverse()\n     return list }\n\n/**\n * Returns a list with elements in reversed order.\n
*/\npublic fun ByteArray.reversed(): List<Byte> {\n     if (isEmpty()) return emptyList()\n     val list =
toMutableList()\n     list.reverse()\n     return list }\n\n/**\n * Returns a list with elements in reversed order.\n
*/\npublic fun ShortArray.reversed(): List<Short> {\n     if (isEmpty())
return emptyList()\n     val list = toMutableList()\n     list.reverse()\n     return list }\n\n/**\n * Returns a list with
elements in reversed order.\n */\npublic fun IntArray.reversed(): List<Int> {\n     if (isEmpty()) return emptyList()\n
val list = toMutableList()\n     list.reverse()\n     return list }\n\n/**\n * Returns a list with elements in reversed
order.\n */\npublic fun LongArray.reversed(): List<Long> {\n     if (isEmpty()) return emptyList()\n     val list =
toMutableList()\n     list.reverse()\n     return list }\n\n/**\n * Returns a list with elements in reversed order.\n
*/\npublic fun FloatArray.reversed(): List<Float> {\n     if (isEmpty()) return emptyList()\n     val list =
toMutableList()\n     list.reverse()\n     return list }\n\n/**\n * Returns a list with elements in reversed order.\n
*/\npublic fun DoubleArray.reversed(): List<Double> {\n     if (isEmpty()) return emptyList()\n     val list =
toMutableList()\n     list.reverse()\n     return list }\n\n/**\n * Returns
a list with elements in reversed order.\n */\npublic fun BooleanArray.reversed(): List<Boolean> {\n     if (isEmpty())
return emptyList()\n     val list = toMutableList()\n     list.reverse()\n     return list }\n\n/**\n * Returns a list with
elements in reversed order.\n */\npublic fun CharArray.reversed(): List<Char> {\n     if (isEmpty()) return
emptyList()\n     val list = toMutableList()\n     list.reverse()\n     return list }\n\n/**\n * Returns an array with
elements of this array in reversed order.\n */\npublic fun <T> Array<T>.reversedArray(): Array<T> {\n     if
(isEmpty()) return this\n     val result = arrayOfNulls(this, size)\n     val lastIndex = lastIndex\n     for (i in
0..lastIndex)\n         result[lastIndex - i] = this[i]\n     return result }\n\n/**\n * Returns an array with elements of this
array in reversed order.\n */\npublic fun ByteArray.reversedArray(): ByteArray {\n     if (isEmpty()) return this\n
val result = ByteArray(size)\n     val lastIndex = lastIndex\n
for (i in 0..lastIndex)\n         result[lastIndex - i] = this[i]\n     return result }\n\n/**\n * Returns an array with
elements of this array in reversed order.\n */\npublic fun ShortArray.reversedArray(): ShortArray {\n     if
(isEmpty()) return this\n     val result = ShortArray(size)\n     val lastIndex = lastIndex\n     for (i in 0..lastIndex)\n
result[lastIndex - i] = this[i]\n     return result }\n\n/**\n * Returns an array with elements of this array in reversed
order.\n */\npublic fun IntArray.reversedArray(): IntArray {\n     if (isEmpty()) return this\n     val result =
IntArray(size)\n     val lastIndex = lastIndex\n     for (i in 0..lastIndex)\n         result[lastIndex - i] = this[i]\n
return result }\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun
LongArray.reversedArray(): LongArray {\n     if (isEmpty()) return this\n     val result = LongArray(size)\n     val
lastIndex = lastIndex\n     for (i in 0..lastIndex)\n         result[lastIndex
- i] = this[i]\n     return result }\n\n/**\n * Returns an array with elements of this array in reversed order.\n
*/\npublic fun FloatArray.reversedArray(): FloatArray {\n     if (isEmpty()) return this\n     val result =
FloatArray(size)\n     val lastIndex = lastIndex\n     for (i in 0..lastIndex)\n         result[lastIndex - i] = this[i]\n
return result }\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun
DoubleArray.reversedArray(): DoubleArray {\n     if (isEmpty()) return this\n     val result = DoubleArray(size)\n
val lastIndex = lastIndex\n     for (i in 0..lastIndex)\n         result[lastIndex - i] = this[i]\n     return result }\n\n
/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun BooleanArray.reversedArray():

```

```

BooleanArray {
    if (isEmpty()) return this
    val result = BooleanArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]

    return result
}

/**
 * Returns an array with elements of this array in reversed order.
 */
public fun CharArray.reversedArray(): CharArray {
    if (isEmpty()) return this
    val result = CharArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

/**
 * Sorts elements in the array in-place according to natural sort order of the value returned by specified [selector] function.
 *
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <T, R : Comparable<R>> Array<out T>.sortBy(crossinline selector: (T) -> R?): Unit {
    if (size > 1) sortByWith(compareBy(selector))
}

/**
 * Sorts elements in the array in-place descending according to natural sort order of the value returned by specified [selector] function.
 *
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <T, R : Comparable<R>> Array<out T>.sortByDescending(crossinline selector: (T) -> R?): Unit {
    if (size > 1) sortByDescendingWith(compareByDescending(selector))
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 *
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public fun <T : Comparable<T>> Array<out T>.sortDescending(): Unit {
    sortByDescendingWith(reverseOrder())
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun ByteArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun ShortArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun IntArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun LongArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun FloatArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun DoubleArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun CharArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 *
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public fun <T : Comparable<T>> Array<out T>.sorted(): List<T> {
    return sortedArray().asList()
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
public fun ByteArray.sorted(): List<Byte> {
    return toTypedArray().apply { sort() }.asList()
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
public fun ShortArray.sorted(): List<Short> {
    return toTypedArray().apply { sort() }.asList()
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
public fun IntArray.sorted(): List<Int> {
    return toTypedArray().apply { sort() }.asList()
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
public fun LongArray.sorted(): List<Long> {
    return toTypedArray().apply { sort() }.asList()
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
public fun FloatArray.sorted(): List<Float> {
    return toTypedArray().apply { sort() }.asList()
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
public fun DoubleArray.sorted(): List<Double> {
    return toTypedArray().apply { sort() }.asList()
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 */
public fun CharArray.sorted(): List<Char> {
    return toTypedArray().apply { sort() }.asList()
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 *
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public fun <T : Comparable<T>> Array<T>.sortedArray():

```

```

Array<T> {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
public fun ByteArray.sortedArray(): ByteArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
public fun ShortArray.sortedArray(): ShortArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
public fun IntArray.sortedArray(): IntArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
public fun LongArray.sortedArray(): LongArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
public fun FloatArray.sortedArray(): FloatArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
public fun DoubleArray.sortedArray(): DoubleArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted according to their natural sort order.
 */
public fun CharArray.sortedArray(): CharArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public fun <T : Comparable<T>> Array<T>.sortedArrayDescending(): Array<T> {
    if (isEmpty()) return this
    return this.copyOf().apply { sortWith(reverseOrder()) }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun ByteArray.sortedArrayDescending(): ByteArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun ShortArray.sortedArrayDescending(): ShortArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun IntArray.sortedArrayDescending(): IntArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun LongArray.sortedArrayDescending(): LongArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun FloatArray.sortedArrayDescending(): FloatArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun DoubleArray.sortedArrayDescending(): DoubleArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public fun <T> Array<out T>.sortedArrayWith(comparator: Comparator<in T>): Array<out T> {
    if (isEmpty()) return this
    return this.copyOf().apply { sortWith(comparator) }
}

/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <T, R : Comparable<R>> Array<out T>.sortedBy(crossinline selector: (T) -> R?): List<T> {
    return sortedWith(compareBy(selector))
}

/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 */
public inline fun <R : Comparable<R>> ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> {
    return sortedWith(compareBy(selector))
}

/**
 * Returns a list of all

```

elements sorted according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> {
    return sortedWith(compareBy(selector))
}

```

\* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> {
    return sortedWith(compareBy(selector))
}

```

\* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> LongArray.sortedBy(crossinline selector: (Long) -> R?): List<Long> {
    return sortedWith(compareBy(selector))
}

```

\* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float> {
    return sortedWith(compareBy(selector))
}

```

\* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> {
    return sortedWith(compareBy(selector))
}

```

\* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> BooleanArray.sortedBy(crossinline selector: (Boolean) -> R?): List<Boolean> {
    return sortedWith(compareBy(selector))
}

```

\* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char> {
    return sortedWith(compareBy(selector))
}

```

\* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

\* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public inline fun <T, R : Comparable<R>> Array<out T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {
    return sortedWith(compareByDescending(selector))
}

```

\* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> ByteArray.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> {
    return sortedWith(compareByDescending(selector))
}

```

\* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> {
    return sortedWith(compareByDescending(selector))
}

```

\* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> {
    return sortedWith(compareByDescending(selector))
}

```

\* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> {
    return sortedWith(compareByDescending(selector))
}

```

\* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> FloatArray.sortedByDescending(crossinline selector: (Float) -> R?): List<Float> {
    return sortedWith(compareByDescending(selector))
}

```

\* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> DoubleArray.sortedByDescending(crossinline selector: (Double) -> R?): List<Double> {
    return sortedWith(compareByDescending(selector))
}

```

\* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> BooleanArray.sortedByDescending(crossinline selector: (Boolean) -> R?): List<Boolean> {
    return sortedWith(compareByDescending(selector))
}

```

\* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> CharArray.sortedByDescending(crossinline selector: (Char) -> R?): List<Char> {
    return sortedWith(compareByDescending(selector))
}

```

```

return sortedWith(compareByDescending(selector))\n\n/**\n * Returns a list of all elements sorted descending
according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order
relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<out T>.sortedDescending():
List<T> {\n    return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted descending
according to their natural sort order.\n */\npublic fun ByteArray.sortedDescending(): List<Byte> {\n    return
copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according
to their natural sort order.\n */\npublic fun ShortArray.sortedDescending(): List<Short> {\n    return copyOf().apply
{ sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort
order.\n */\npublic fun IntArray.sortedDescending(): List<Int> {\n    return copyOf().apply { sort()
}.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n
*/\npublic fun LongArray.sortedDescending(): List<Long> {\n    return copyOf().apply { sort()
}.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n
*/\npublic fun FloatArray.sortedDescending(): List<Float> {\n    return copyOf().apply { sort()
}.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n
*/\npublic fun DoubleArray.sortedDescending(): List<Double> {\n    return copyOf().apply { sort()
}.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n
*/\npublic fun
CharArray.sortedDescending(): List<Char> {\n    return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a
list of all elements sorted according to the specified [comparator].\n * \n * The sort is _stable_. It means that equal
elements preserve their order relative to each other after sorting.\n */\npublic fun <T> Array<out
T>.sortedWith(comparator: Comparator<in T>): List<T> {\n    return
sortedArrayWith(comparator).asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified
[comparator].\n */\npublic fun ByteArray.sortedWith(comparator: Comparator<in Byte>): List<Byte> {\n    return
toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according
to the specified [comparator].\n */\npublic fun ShortArray.sortedWith(comparator: Comparator<in Short>):
List<Short> {\n    return toTypedArray().apply
{ sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified
[comparator].\n */\npublic fun IntArray.sortedWith(comparator: Comparator<in Int>): List<Int> {\n    return
toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according
to the specified [comparator].\n */\npublic fun LongArray.sortedWith(comparator: Comparator<in Long>):
List<Long> {\n    return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all
elements sorted according to the specified [comparator].\n */\npublic fun FloatArray.sortedWith(comparator:
Comparator<in Float>): List<Float> {\n    return toTypedArray().apply { sortWith(comparator)
}.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun
DoubleArray.sortedWith(comparator: Comparator<in Double>): List<Double> {\n    return toTypedArray().apply
{ sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified
[comparator].\n */\npublic fun BooleanArray.sortedWith(comparator: Comparator<in Boolean>): List<Boolean>
{\n    return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements
sorted according to the specified [comparator].\n */\npublic fun CharArray.sortedWith(comparator: Comparator<in
Char>): List<Char> {\n    return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a
[List] that wraps the original array.\n */\npublic expect fun <T> Array<out T>.asList(): List<T>\n\n/**\n * Returns
a [List] that wraps the original array.\n */\npublic expect fun ByteArray.asList(): List<Byte>\n\n/**\n * Returns a
[List] that wraps the original array.\n */\npublic expect fun ShortArray.asList(): List<Short>\n\n/**\n * Returns a
[List] that wraps the original array.\n */\npublic expect fun IntArray.asList(): List<Int>\n\n/**\n * Returns a
[List] that wraps the original array.\n */\npublic expect fun LongArray.asList(): List<Long>\n\n/**\n * Returns a
[List] that wraps the original array.\n */\npublic expect fun FloatArray.asList(): List<Float>\n\n/**\n * Returns
a [List] that wraps the original array.\n */\npublic expect fun DoubleArray.asList(): List<Double>\n\n/**\n * Returns
a [List] that wraps the original array.\n */\npublic expect fun BooleanArray.asList():

```

`List<Boolean>`\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \* \n\npublic expect fun CharArray.asList(): List<Char>\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*deeply\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* If two corresponding elements are nested arrays, they are also compared deeply.\n \* If any of arrays contains itself on any nesting level the behavior is undefined.\n \* \n \* The elements of other types are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \* \n\n@SinceKotlin("1.1")\n\npublic expect infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* Nested arrays are treated as lists too.\n \* \n \* If any of arrays contains itself on any nesting level the behavior is undefined.\n \* \n\n@SinceKotlin("1.1")\n\npublic expect fun <T> Array<out T>.contentDeepHashCode(): Int\n\n/\*\*\n \* Returns a string representation of the contents of this array as if it is a [List].\n \* Nested arrays are treated as lists too.\n \* \n \* If any of arrays contains itself on any nesting level that reference\n \* is rendered as `[...]` to prevent recursion.\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n \* \n\n@SinceKotlin("1.1")\n\npublic expect fun <T> Array<out T>.contentDeepToString(): String\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \* \n\n@SinceKotlin("1.1")\n\npublic expect infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \* \n\n@SinceKotlin("1.1")\n\npublic expect infix fun ByteArray.contentEquals(other: ByteArray): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \* \n\n@SinceKotlin("1.1")\n\npublic expect infix fun ShortArray.contentEquals(other: ShortArray): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \* \n\n@SinceKotlin("1.1")\n\npublic expect infix fun IntArray.contentEquals(other: IntArray): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \* \n\n@SinceKotlin("1.1")\n\npublic expect infix fun LongArray.contentEquals(other: LongArray): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \* \n\n@SinceKotlin("1.1")\n\npublic expect infix fun FloatArray.contentEquals(other: FloatArray): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \* \n\n@SinceKotlin("1.1")\n\npublic expect infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \* \n\n@SinceKotlin("1.1")\n\npublic expect infix

fun BooleanArray.contentEquals(other: BooleanArray): Boolean\n\n\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

\*\n@SinceKotlin("1.1")\npublic expect infix fun CharArray.contentEquals(other: CharArray): Boolean\n\n\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.1")\npublic expect fun <T> Array<out T>.contentHashCode(): Int\n\n\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.1")\npublic expect fun ByteArray.contentHashCode(): Int\n\n\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.1")\npublic expect fun ShortArray.contentHashCode(): Int\n\n\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.1")\npublic expect fun IntArray.contentHashCode(): Int\n\n\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.1")\npublic expect fun LongArray.contentHashCode(): Int\n\n\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.1")\npublic expect fun FloatArray.contentHashCode(): Int\n\n\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.1")\npublic expect fun DoubleArray.contentHashCode(): Int\n\n\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.1")\npublic expect fun BooleanArray.contentHashCode(): Int\n\n\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.1")\npublic expect fun CharArray.contentHashCode(): Int\n\n\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*\n@SinceKotlin("1.1")\npublic expect fun <T> Array<out T>.contentToString(): String\n\n\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*\n@SinceKotlin("1.1")\npublic expect fun ByteArray.contentToString(): String\n\n\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*\n@SinceKotlin("1.1")\npublic expect fun ShortArray.contentToString(): String\n\n\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*\n@SinceKotlin("1.1")\npublic expect fun IntArray.contentToString(): String\n\n\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*\n@SinceKotlin("1.1")\npublic expect fun LongArray.contentToString(): String\n\n\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*\n@SinceKotlin("1.1")\npublic expect fun FloatArray.contentToString(): String\n\n\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*\n@SinceKotlin("1.1")\npublic expect fun DoubleArray.contentToString(): String\n\n\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*\n@SinceKotlin("1.1")\npublic expect fun BooleanArray.contentToString(): String\n\n\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*\n@SinceKotlin("1.1")\npublic expect fun CharArray.contentToString(): String\n\n\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange



or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \* \n \* @SinceKotlin("1.3")\n \* public expect fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray\n \* \n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \* \n \* @SinceKotlin("1.3")\n \* public expect fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray\n \* \n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \* \n \* @SinceKotlin("1.3")\n \* public expect fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray\n \* \n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \* \n \* @SinceKotlin("1.3")\n \* public expect fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray\n \* \n \* Returns new array which is a copy of the original array.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* @Suppress("NO\_ACTUAL\_FOR\_EXPECT")\n \* public expect fun <T> Array<T>.copyOf(): Array<T>\n \* \n \* Returns new array which is a copy of the original array.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* public expect fun ByteArray.copyOfOf(): ByteArray\n \* \n \* Returns new array which is a copy of the original array.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.copyOfOf\n \*/\npublic expect fun ShortArray.copyOfOf():  
 ShortArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOfOf\n \*/\npublic expect fun IntArray.copyOfOf(): IntArray\n\n/\*\*\n  
 \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOfOf\n \*/\npublic expect fun LongArray.copyOfOf():  
 LongArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOfOf\n \*/\npublic expect fun FloatArray.copyOfOf():  
 FloatArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOfOf\n  
 \*/\npublic expect fun DoubleArray.copyOfOf(): DoubleArray\n\n/\*\*\n \* Returns new array which is a copy of the  
 original array.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \*/\npublic expect fun  
 BooleanArray.copyOfOf(): BooleanArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \*  
 @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \*/\npublic expect fun CharArray.copyOfOf():  
 CharArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \*  
 The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the  
 size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of  
 the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic expect fun  
 ByteArray.copyOfOf(newSize: Int): ByteArray\n\n/\*\*\n \* Returns new array which is a copy of the original array,  
 resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n  
 \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If  
 [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero  
 values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic  
 expect fun ShortArray.copyOfOf(newSize: Int): ShortArray\n\n/\*\*\n \* Returns new array which is a copy of the  
 original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values  
 if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the  
 [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra  
 elements in the copy array are filled with zero values.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic expect fun  
 IntArray.copyOfOf(newSize: Int): IntArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized  
 to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* -  
 If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize]  
 is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \*  
 @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic expect fun  
 LongArray.copyOfOf(newSize: Int): LongArray\n\n/\*\*\n \* Returns new array which is a copy of the original array,  
 resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n  
 \* \n \* - If [newSize]  
 is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater  
 than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic expect fun  
 FloatArray.copyOfOf(newSize: Int): FloatArray\n\n/\*\*\n \* Returns new array which is a copy of the original array,  
 resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n  
 \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If  
 [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero  
 values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic  
 expect fun DoubleArray.copyOfOf(newSize: Int): DoubleArray\n\n/\*\*\n \* Returns new array which is  
 a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end  
 with `false` values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is

truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic expect fun BooleanArray.copyOf(newSize: Int): BooleanArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with null char (``\u0000``) values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (``\u0000``) values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic expect fun CharArray.copyOf(newSize: Int): CharArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with `null` values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n \*/\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect fun <T> Array<T>.copyOf(newSize: Int): Array<T?>\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* \n \* @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n \* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n \*/\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect fun <T> Array<T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T>\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* \n \* @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n \* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n \*/\npublic expect fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* \n \* @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n \* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n \*/\npublic expect fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* \n \* @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n \* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n \*/\npublic expect fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* \n \* @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n \* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n \*/\npublic expect fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* \n \* @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n \* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n \*/\npublic expect fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* \n \* @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n \* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n \*/\npublic expect fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* \n \* @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n \* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n \*/\npublic expect fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* \n \* @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n \* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n \*/\npublic expect fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* \n \* @param fromIndex the start of the range (inclusive), 0 by default.\n \* @param toIndex the end of the range





and then the given [element].\n \*/\npublic expect operator fun ByteArray.plus(element: Byte): ByteArray\n\n\*/\n \* Returns an array containing all elements of the original array

and then the given [element].\n \*/\npublic expect operator fun ShortArray.plus(element: Short): ShortArray\n\n\*/\n \* Returns an array containing all elements of the original array and then the given [element].\n \*/\npublic expect operator fun IntArray.plus(element: Int): IntArray\n\n\*/\n \* Returns an array containing all elements of the original array and then the given [element].\n \*/\npublic expect operator fun LongArray.plus(element: Long): LongArray\n\n\*/\n \* Returns an array containing all elements of the original array and then the given [element].\n \*/\npublic expect operator fun FloatArray.plus(element: Float): FloatArray\n\n\*/\n \* Returns an array containing all elements of the original array and then the given [element].\n \*/\npublic expect operator fun DoubleArray.plus(element: Double): DoubleArray\n\n\*/\n \* Returns an array containing all elements of the original array and then the given [element].\n \*/\npublic expect operator fun BooleanArray.plus(element: Boolean): BooleanArray\n\n\*/\n \* Returns an array containing all elements of the original array and then the given [element].\n \*/\npublic expect operator fun CharArray.plus(element: Char): CharArray\n\n\*/\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect operator fun <T> Array<T>.plus(elements: Collection<T>): Array<T>\n\n\*/\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray\n\n\*/\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun ShortArray.plus(elements: Collection<Short>): ShortArray\n\n\*/\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun IntArray.plus(elements: Collection<Int>): IntArray\n\n\*/\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun LongArray.plus(elements: Collection<Long>): LongArray\n\n\*/\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun FloatArray.plus(elements: Collection<Float>): FloatArray\n\n\*/\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray\n\n\*/\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray\n\n\*/\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun CharArray.plus(elements: Collection<Char>): CharArray\n\n\*/\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect operator fun <T> Array<T>.plus(elements: Array<out T>): Array<T>\n\n\*/\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun ByteArray.plus(elements: ByteArray): ByteArray\n\n\*/\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun ShortArray.plus(elements: ShortArray): ShortArray\n\n\*/\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun IntArray.plus(elements: IntArray): IntArray\n\n\*/\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun LongArray.plus(elements: LongArray): LongArray\n\n\*/\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun FloatArray.plus(elements: FloatArray): FloatArray\n\n\*/\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray\n\n\*/\n \* Returns an array containing all elements of the

original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun  
BooleanArray.plus(elements: BooleanArray): BooleanArray\n\n/\*\*\n \* Returns an array containing all elements of  
the original  
array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun CharArray.plus(elements:  
CharArray): CharArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then the given  
[element].\n \*/\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect fun <T>  
Array<T>.plusElement(element: T): Array<T>\n\n/\*\*\n \* Sorts the array in-place.\n \* \n \* @sample  
samples.collections.Arrays.Sorting.sortArray\n \*/\npublic expect fun IntArray.sort(): Unit\n\n/\*\*\n \* Sorts the array  
in-place.\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArray\n \*/\npublic expect fun LongArray.sort():  
Unit\n\n/\*\*\n \* Sorts the array in-place.\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArray\n \*/\npublic  
expect fun ByteArray.sort(): Unit\n\n/\*\*\n \* Sorts the array in-place.\n \* \n \* @sample  
samples.collections.Arrays.Sorting.sortArray\n \*/\npublic expect fun ShortArray.sort(): Unit\n\n/\*\*\n \* Sorts the  
array in-place.\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArray\n  
\*/\npublic expect fun DoubleArray.sort(): Unit\n\n/\*\*\n \* Sorts the array in-place.\n \* \n \* @sample  
samples.collections.Arrays.Sorting.sortArray\n \*/\npublic expect fun FloatArray.sort(): Unit\n\n/\*\*\n \* Sorts the  
array in-place.\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArray\n \*/\npublic expect fun  
CharArray.sort(): Unit\n\n/\*\*\n \* Sorts the array in-place according to the natural order of its elements.\n \* \n \* The  
sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \* \n \*  
@sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n \*/\npublic expect fun <T >  
Comparable<T>> Array<out T>.sort(): Unit\n\n/\*\*\n \* Sorts the array in-place according to the order specified by  
the given [comparator].\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to  
each other after sorting.\n \*/\npublic expect fun <T> Array<out T>.sortWith(comparator:  
Comparator<in T>): Unit\n\n/\*\*\n \* Returns an array of Boolean containing all of the elements of this generic  
array.\n \*/\npublic fun Array<out Boolean>.toBooleanArray(): BooleanArray {\n return BooleanArray(size) {\n  
index -> this[index] }\n}\n\n/\*\*\n \* Returns an array of Byte containing all of the elements of this generic array.\n  
\*/\npublic fun Array<out Byte>.toByteArray(): ByteArray {\n return ByteArray(size) {\n index -> this[index]  
}\n}\n\n/\*\*\n \* Returns an array of Char containing all of the elements of this generic array.\n \*/\npublic fun  
Array<out Char>.toCharArray(): CharArray {\n return CharArray(size) {\n index -> this[index] }\n}\n\n/\*\*\n \*  
Returns an array of Double containing all of the elements of this generic array.\n \*/\npublic fun Array<out  
Double>.toDoubleArray(): DoubleArray {\n return DoubleArray(size) {\n index -> this[index] }\n}\n\n/\*\*\n \*  
Returns an array of Float containing all of the elements of this generic array.\n \*/\npublic fun Array<out  
Float>.toFloatArray():  
FloatArray {\n return FloatArray(size) {\n index -> this[index] }\n}\n\n/\*\*\n \* Returns an array of Int containing all  
of the elements of this generic array.\n \*/\npublic fun Array<out Int>.toIntArray(): IntArray {\n return  
IntArray(size) {\n index -> this[index] }\n}\n\n/\*\*\n \* Returns an array of Long containing all of the elements of this  
generic array.\n \*/\npublic fun Array<out Long>.toLongArray(): LongArray {\n return LongArray(size) {\n index ->  
this[index] }\n}\n\n/\*\*\n \* Returns an array of Short containing all of the elements of this generic array.\n \*/\npublic  
fun Array<out Short>.toShortArray(): ShortArray {\n return ShortArray(size) {\n index -> this[index] }\n}\n\n/\*\*\n  
\* Returns a `*typed*` object array containing all of the elements of this primitive array.\n \*/\npublic expect fun  
ByteArray.toTypedArray(): Array<Byte>\n\n/\*\*\n \* Returns a `*typed*` object array containing all of the elements of  
this primitive array.\n \*/\npublic expect fun ShortArray.toTypedArray():  
Array<Short>\n\n/\*\*\n \* Returns a `*typed*` object array containing all of the elements of this primitive array.\n  
\*/\npublic expect fun IntArray.toTypedArray(): Array<Int>\n\n/\*\*\n \* Returns a `*typed*` object array containing all  
of the elements of this primitive array.\n \*/\npublic expect fun LongArray.toTypedArray(): Array<Long>\n\n/\*\*\n \*  
Returns a `*typed*` object array containing all of the elements of this primitive array.\n \*/\npublic expect fun  
FloatArray.toTypedArray(): Array<Float>\n\n/\*\*\n \* Returns a `*typed*` object array containing all of the elements  
of this primitive array.\n \*/\npublic expect fun DoubleArray.toTypedArray(): Array<Double>\n\n/\*\*\n \* Returns a  
`*typed*` object array containing all of the elements of this primitive array.\n \*/\npublic expect fun

BooleanArray.toArray(): Array<Boolean>\n\n/\*\*\n \* Returns a \*typed\* object array containing all of the elements of this primitive array.\n \*/\npublic expect fun CharArray.toArray(): Array<Char>\n\n/\*\*\n \* Returns a [Map] containing key-value pairs provided by [transform] function\n \* applied to elements of the given array.\n \* \n \* If any of two pairs would have the same key the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n \*/\npublic inline fun <T, K, V> Array<out T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/\*\*\n \* Returns a [Map] containing key-value pairs provided by [transform] function\n \* applied to elements of the given array.\n \* \n \* If any of two pairs would have the same key the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n \*/\npublic inline fun <K, V> ByteArray.associate(transform: (Byte) -> Pair<K, V>): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/\*\*\n \* Returns a [Map] containing key-value pairs provided by [transform] function\n \* applied to elements of the given array.\n \* \n \* If any of two pairs would have the same key the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n \*/\npublic inline fun <K, V> ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/\*\*\n \* Returns a [Map] containing key-value pairs provided by [transform] function\n \* applied to elements of the given array.\n \* \n \* If any of two pairs would have the same key the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n \*/\npublic inline fun <K, V> IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/\*\*\n \* Returns a [Map] containing key-value pairs provided by [transform] function\n \* applied to elements of the given array.\n \* \n \* If any of two pairs would have the same key the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n \*/\npublic inline fun <K, V> LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/\*\*\n \* Returns a [Map] containing key-value pairs provided by [transform] function\n \* applied to elements of the given array.\n \* \n \* If any of two pairs would have the same key the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n \*/\npublic inline fun <K, V> FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/\*\*\n \* Returns a [Map] containing key-value pairs provided by [transform] function\n \* applied to elements of the given array.\n \* \n \* If any of two pairs would have the same key the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n \*/\npublic inline fun <K, V> DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/\*\*\n \* Returns a [Map] containing key-value pairs provided by [transform] function\n \* applied to elements of the given array.\n \* \n \* If any of two pairs would have the same key the last one gets added to the

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map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n * \n public inline fun <K, V>
BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n
* applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets
added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n * \n public inline fun <K, V>
CharArray.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n
* returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n * \n public inline
fun <T, K> Array<out T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, T>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n
* returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n * \n public inline fun <K>
ByteArray.associateBy(keySelector: (Byte) -> K): Map<K, Byte> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Byte>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n
* returned from [keySelector] function
applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last
one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n
* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n * \n public inline fun <K>
ShortArray.associateBy(keySelector: (Short) -> K): Map<K, Short> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Short>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n
* returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n * \n public
inline fun <K> IntArray.associateBy(keySelector: (Int) -> K): Map<K, Int> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Int>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n
* returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n * \n public inline fun <K>
LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Long>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n
* returned from [keySelector]

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function applied to each element.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n \* \n \* public inline fun <K> FloatArray.associateBy(keySelector: (Float) -> K): Map<K, Float> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Float>(capacity), keySelector)\n }\n \* \n \* Returns a [Map] containing the elements from the given array indexed by the key\n \* returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n \* \n \* public inline fun <K> DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Double>(capacity), keySelector)\n }\n \* \n \* Returns a [Map] containing the elements from the given array indexed by the key\n \* returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n \* \n \* public inline fun <K> BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Boolean>(capacity), keySelector)\n }\n \* \n \* Returns a [Map] containing the elements from the given array indexed by the key\n \* returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n \* \n \* public inline fun <K> CharArray.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)\n }\n \* \n \* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n \* \n \* public inline fun <T, K, V> Array<out T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n }\n \* \n \* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n \* \n \* public inline fun <K, V> ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n }\n \* \n \* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n \* \n \* public inline fun <K, V> ShortArray.associateBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity),

keySelector, valueTransform)\n}\n\n/\*\*\n \* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

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samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <K, V> IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
```

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n \*/\npublic inline fun <K, V> LongArray.associateBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/\*\*\n \* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n \*/\npublic inline fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/\*\*\n \* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n \*/\npublic inline fun <K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/\*\*\n \* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n \*/\npublic inline fun <K, V> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/\*\*\n \* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n \*/\npublic inline fun <K, V> CharArray.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs,\n \* where key is provided by the [keySelector] function applied to each element of the given array\n \* and value is the element itself.\n \* \n \* If any two elements would

have the same key returned by [keySelector] the last one gets added to the map.

```

@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
*/\npublic inline fun <T, K, M :
MutableMap<in K, in T>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n for
(element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n *
Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function applied to
each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
*/\npublic inline fun <K, M :
MutableMap<in K, in Byte>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K): M {\n for
(element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n *
Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any
two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
*/\npublic inline fun <K,
M : MutableMap<in K,
in Short>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K): M {\n for (element in this) {\n
destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to
each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
*/\npublic inline fun <K, M :
MutableMap<in K, in Int>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K): M {\n for (element
in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector]
function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two
elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
*/\npublic inline fun <K, M :
MutableMap<in K, in Long>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K): M {\n for
(element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n *
Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any
two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
*/\npublic inline
fun <K, M : MutableMap<in K, in Float>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K): M
{\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is
provided by the [keySelector] function applied to each element of the given array\n * and value is the element
itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
*/\npublic
inline fun <K, M : MutableMap<in K, in Double>> DoubleArray.associateByTo(destination: M, keySelector:
(Double) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n *
where key is provided by the [keySelector] function applied to each element of the given array\n * and value is
the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets
added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
*/\npublic inline fun <K, M : MutableMap<in K, in Boolean>> BooleanArray.associateByTo(destination: M,
keySelector: (Boolean) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n
}

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    }
    return destination
}

Populates and returns the [destination] mutable map with key-value pairs,
where key is provided by the [keySelector] function applied to each element of the given array
and value is the element itself.
If any two elements would have the same key returned by [keySelector] the last one gets
added to the map.
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo

public inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector:
(Char) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}

Populates and returns the [destination] mutable map with key-value pairs,
where key is provided by the [keySelector] function and
and value is provided by the [valueTransform] function applied to
elements of the given array.
If any two elements would have the same key returned by [keySelector] the last
one gets added to the map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform

public
inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateByTo(destination: M, keySelector: (T) -
> K, valueTransform: (T) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
valueTransform(element))
    }
}

return destination
}

Populates and returns the [destination] mutable map with key-value pairs,
where key is provided by the [keySelector] function and
and value is provided by the [valueTransform]
function applied to elements of the given array.
If any two elements would have the same key returned by
[keySelector] the last one gets added to the map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform

public
inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateByTo(destination: M, keySelector: (Byte) ->
K, valueTransform: (Byte) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
valueTransform(element))
    }
}

return destination
}

Populates and returns the [destination] mutable
map with key-value pairs,
where key is provided by the [keySelector] function and
and value is provided by
the [valueTransform] function
applied to elements of the given array.
If any two elements would have the same key returned by
[keySelector] the last one gets added to the map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform

public
inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, keySelector: (Short) ->
K, valueTransform: (Short) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
valueTransform(element))
    }
}

return destination
}

Populates and returns the [destination] mutable
map with key-value pairs,
where key is provided by the [keySelector] function and
and value is provided by
the [valueTransform] function applied to elements of the given array.
If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform

public
inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, keySelector:
(Int) -> K, valueTransform: (Int) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
valueTransform(element))
    }
}

return destination
}

Populates and returns the [destination] mutable
map with key-value pairs,
where key is provided by the [keySelector] function and
and value is provided by
the [valueTransform] function applied to elements of the given array.
If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform

public
inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateByTo(destination: M, keySelector: (Long) ->
K, valueTransform: (Long) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
valueTransform(element))
    }
}

return destination
}

Populates and returns the [destination] mutable
map with key-value pairs,
where key is provided by the [keySelector] function and
and value is provided by
the [valueTransform] function applied to elements of the given array.
If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform

public

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inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateByTo(destination: M, keySelector: (Float) ->
K, valueTransform: (Float) -> V): M {
    for (element in this) {
        destination.put(keySelector(element),
valueTransform(element))
    }
    return destination
}

Populates and returns the [destination] mutable
map with key-value pairs,
where key is provided by the [keySelector] function and
and value is provided by the [valueTransform] function applied to elements of the given array.

If any two
elements would have the same key returned by [keySelector] the last one gets added to the map.

@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform

public
inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination: M, keySelector:
(Double) -> K, valueTransform: (Double) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

Populates
and returns the [destination] mutable map with key-value pairs,
where key is provided by the [keySelector]
function and
and value is provided by the [valueTransform] function applied to elements of the given array.

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform

public
inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateByTo(destination: M,
keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

Populates
and returns the [destination] mutable map with key-value pairs,
where key is provided by the [keySelector]
function and
and value is provided by the [valueTransform] function applied to elements of the given array.

If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform

public
inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateByTo(destination: M, keySelector:
(Char) -> K, valueTransform: (Char)
-> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

Populates and returns the [destination] mutable map with key-value pairs
provided by [transform] function applied to each element of the given array.

If any of two pairs would have
the same key the last one gets added to the map.

@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

public
inline fun <T, K, V, M :
MutableMap<in K, in V>> Array<out T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {
    for
(element in this) {
        destination += transform(element)
    }
    return destination
}

Populates and
returns the [destination] mutable map with key-value pairs
provided by [transform] function applied to each
element of the given array.

If any of two pairs would have the same key the last one gets added to the
map.

@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

public
inline fun <K,
V, M : MutableMap<in K, in V>> ByteArray.associateTo(destination: M, transform: (Byte) -> Pair<K, V>): M {
    for
(element in this) {
        destination += transform(element)
    }
    return destination
}

Populates
and returns the [destination] mutable map with key-value pairs
provided by [transform] function applied to each
element of the given array.

If any of two pairs would have the same key the last one gets added to the
map.

@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

public
inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateTo(destination: M, transform: (Short) ->
Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return
destination
}

Populates and returns the [destination] mutable map with key-value pairs
provided
by [transform] function applied to each element of the given array.

If any of two pairs would have the same
key the last one gets added to the map.

@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

public
inline fun <K, V, M :
MutableMap<in K, in V>> IntArray.associateTo(destination: M, transform: (Int) -> Pair<K, V>): M {
    for
(element in this) {
        destination += transform(element)
    }
    return destination
}

Populates and
returns the [destination] mutable map with key-value pairs
provided by [transform] function applied to each

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element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n * \n public
inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateTo(destination: M, transform: (Long) ->
Pair<K, V>): M {\n   for (element in this) {\n
      destination += transform(element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the
given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n * \n public inline fun <K, V,
M : MutableMap<in K, in V>> FloatArray.associateTo(destination: M, transform: (Float) -> Pair<K, V>): M {\n
for (element in this) {\n   destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n
* \n public inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateTo(destination: M, transform:
(Double) -> Pair<K, V>): M {\n   for (element in this) {\n   destination += transform(element)\n }\n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n * \n public inline fun <K, V, M :
MutableMap<in K, in V>> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M {\n
for (element in this) {\n   destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n
* \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n * \n public inline fun <K, V, M :
MutableMap<in K, in V>> CharArray.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {\n   for
(element in this) {\n   destination += transform(element)\n }\n   return destination\n}\n\n/**\n * Appends all
elements to the given [destination] collection.\n * \n public fun <T, C : MutableCollection<in T>> Array<out
T>.toCollection(destination: C): C {\n   for (item in this) {\n   destination.add(item)\n }\n   return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n * \n public fun <C :
MutableCollection<in Byte>> ByteArray.toCollection(destination: C): C {\n   for (item in this) {\n
destination.add(item)\n }\n   return destination\n}\n\n/**\n * Appends all elements to the given [destination]
collection.\n
* \n public fun <C : MutableCollection<in Short>> ShortArray.toCollection(destination: C): C {\n   for (item in
this) {\n   destination.add(item)\n }\n   return destination\n}\n\n/**\n * Appends all elements to the given
[destination] collection.\n * \n public fun <C : MutableCollection<in Int>> IntArray.toCollection(destination: C): C
{\n   for (item in this) {\n   destination.add(item)\n }\n   return destination\n}\n\n/**\n * Appends all elements
to the given [destination] collection.\n * \n public fun <C : MutableCollection<in Long>>
LongArray.toCollection(destination: C): C {\n   for (item in this) {\n   destination.add(item)\n }\n   return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n * \n public fun <C :
MutableCollection<in Float>> FloatArray.toCollection(destination: C): C {\n   for (item in this) {\n
destination.add(item)\n }\n   return destination\n}\n\n/**\n * Appends all elements to the
given [destination] collection.\n * \n public fun <C : MutableCollection<in Double>>
DoubleArray.toCollection(destination: C): C {\n   for (item in this) {\n   destination.add(item)\n }\n   return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n * \n public fun <C :
MutableCollection<in Boolean>> BooleanArray.toCollection(destination: C): C {\n   for (item in this) {\n
destination.add(item)\n }\n   return destination\n}\n\n/**\n * Appends all elements to the given [destination]
collection.\n * \n public fun <C : MutableCollection<in Char>> CharArray.toCollection(destination: C): C {\n   for

```



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list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n *\npublic
fun DoubleArray.toMutableList(): MutableList<Double> {\n    val list = ArrayList<Double>(size)\n    for (item in
this) list.add(item)\n    return list\n}\n\n/**\n * Returns
a [MutableList] filled with all elements of this array.\n *\npublic fun BooleanArray.toMutableList():
MutableList<Boolean> {\n    val list = ArrayList<Boolean>(size)\n    for (item in this) list.add(item)\n    return
list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n *\npublic fun
CharArray.toMutableList(): MutableList<Char> {\n    val list = ArrayList<Char>(size)\n    for (item in this)
list.add(item)\n    return list\n}\n\n/**\n * Returns a [Set] of all elements.\n *\n * The returned set preserves the
element iteration order of the original array.\n *\npublic fun <T> Array<out T>.toSet(): Set<T> {\n    return when
(size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<T>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n *\n * The
returned set preserves the element iteration order of the original array.\n *\npublic fun ByteArray.toSet():
Set<Byte> {\n    return when (size)
{\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Byte>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n *\n * The
returned set preserves the element iteration order of the original array.\n *\npublic fun ShortArray.toSet():
Set<Short> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Short>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n *\n * The
returned set preserves the element iteration order of the original array.\n *\npublic fun IntArray.toSet():
Set<Int> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Int>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n *\n * The
returned set preserves the element iteration order of the original array.\n *\npublic fun LongArray.toSet():
Set<Long> {\n
    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Long>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n *\n * The
returned set preserves the element iteration order of the original array.\n *\npublic fun FloatArray.toSet():
Set<Float> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Float>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n *\n * The
returned set preserves the element iteration order of the original array.\n *\npublic fun DoubleArray.toSet():
Set<Double> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Double>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n *\n * The
returned set preserves the element iteration order of the original array.\n *\npublic fun
BooleanArray.toSet():
Set<Boolean> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n *\n * The
returned set preserves the element iteration order of the original array.\n *\npublic fun CharArray.toSet():
Set<Char> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Char>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a single list of all elements
yielded from results of [transform] function being invoked on each element of original array.\n *\n * @sample
samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <T, R> Array<out
T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked
on each element of original array.\n *\n * @sample samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <R> ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> {\n    return
flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of
[transform] function being invoked on each element of original array.\n *\n * @sample
samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <R> ShortArray.flatMap(transform:
(Short) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single

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list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n *^\npublic inline fun <R>
IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n *^\npublic inline fun <R>
LongArray.flatMap(transform: (Long) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n *^\npublic inline fun <R> FloatArray.flatMap(transform:
(Float) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n *^\npublic inline fun <R>
DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R>
{\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n *^\npublic inline fun <R>
BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n *^\npublic inline fun <R> CharArray.flatMap(transform:
(Char) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n *^\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out
T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n    for (element in this) {\n        val list =
transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements
yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n *^\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapTo(destination: C,
transform: (Byte) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n
destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n *^\npublic inline
fun <R, C : MutableCollection<in R>> ShortArray.flatMapTo(destination: C, transform: (Short) -> Iterable<R>): C
{\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n
    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being
invoked on each element of original array, to the given [destination].\n *^\npublic inline fun <R, C :
MutableCollection<in R>> IntArray.flatMapTo(destination: C, transform: (Int) -> Iterable<R>): C {\n    for
(element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n *^\npublic inline fun <R, C : MutableCollection<in R>>
LongArray.flatMapTo(destination: C, transform: (Long) -> Iterable<R>): C {\n    for (element in this) {\n        val
list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of
original array, to the given [destination].\n *^\npublic inline fun <R, C : MutableCollection<in R>>
FloatArray.flatMapTo(destination: C, transform: (Float) -> Iterable<R>): C {\n    for (element in this) {\n        val
list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n *^\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapTo(destination: C,
transform: (Double) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n

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destination.addAll(list)\n } \n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline
fun <R, C : MutableCollection<in R>> BooleanArray.flatMapTo(destination: C, transform:
( Boolean) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n
destination.addAll(list)\n } \n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline
fun <R, C : MutableCollection<in R>> CharArray.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C
{\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n } \n return
destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector]
function\n * applied to each element and returns a map where each group key is associated with a list of
corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\npublic inline fun <T, K> Array<out T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n return
groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups elements of the original
array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where
each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry
iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K>
ByteArray.groupBy(keySelector: (Byte) -> K): Map<K, List<Byte>> {\n return groupByTo(LinkedHashMap<K,
MutableList<Byte>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the
given [keySelector] function\n * applied to each element and returns a map where each group key is associated with
a list of corresponding elements.\n * \n * The returned map preserves
the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K>
ShortArray.groupBy(keySelector: (Short) -> K): Map<K, List<Short>> {\n return
groupByTo(LinkedHashMap<K, MutableList<Short>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K>
IntArray.groupBy(keySelector: (Int) -> K): Map<K, List<Int>> {\n return groupByTo(LinkedHashMap<K,
MutableList<Int>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the
given [keySelector] function\n
* applied to each element and returns a map where each group key is associated with a list of corresponding
elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original
array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K>
LongArray.groupBy(keySelector: (Long) -> K): Map<K, List<Long>> {\n return
groupByTo(LinkedHashMap<K, MutableList<Long>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K>
FloatArray.groupBy(keySelector: (Float) -> K): Map<K, List<Float>> {\n return groupByTo(LinkedHashMap<K,
MutableList<Float>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the
given [keySelector] function\n * applied to each element and returns a map where each group key is associated with
a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced
from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic
inline fun <K> DoubleArray.groupBy(keySelector: (Double) -> K): Map<K, List<Double>> {\n return

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groupByTo(LinkedHashMap<K, MutableList<Double>>(), keySelector)\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*/\npublic inline fun <K> BooleanArray.groupBy(keySelector: (Boolean) -> K): Map<K, List<Boolean>> {\n
return groupByTo(LinkedHashMap<K, MutableList<Boolean>>(), keySelector)\n}\n\n/**\n * Groups elements of
the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a
map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves
the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*/\npublic inline fun <K>
CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n return groupByTo(LinkedHashMap<K,
MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied
to each element of the original array\n * by the key returned by the given [keySelector] function applied to the
element\n
* and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned
map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\npublic inline fun <T, K, V>
Array<out T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\npublic
inline fun <K, V> ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>>
{\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n *
Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the
key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key
is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of
the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\npublic inline fun <K, V>
ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original
array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map
where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\npublic inline fun <K, V>
IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n *
@sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\npublic inline fun <K, V>
LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values

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returned by the [valueTransform] function applied to each element of the original array\n \* by the key returned by the given [keySelector] function applied to the element\n \* and returns a map where each group key is associated with a list of corresponding values.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample

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samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n }\n\n/**\n
* Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the
key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key
is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the
keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
DoubleArray.groupBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, List<V>> {\n
return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n }\n\n/**\n
* Groups
values returned by the [valueTransform] function applied to each element of the original array\n * by the key
returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is
associated with a list of corresponding values.\n * \n * The returned
map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
BooleanArray.groupBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, List<V>> {\n
return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n }\n\n/**\n
* Groups
values returned by the [valueTransform] function applied to each element of the original array\n * by the key
returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is
associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the
keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
CharArray.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>>
{\n  return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n }\n\n/**\n
* \n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\npublic inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Array<out T>.groupByTo(destination: M,
keySelector: (T) -> K): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<T>() }\n    list.add(element)\n  }\n  return destination\n }\n\n/**\n
* \n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n
* \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K,
MutableList<Byte>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K): M {\n  for (element in
this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) { ArrayList<Byte>() }\n
list.add(element)\n  }\n  return destination\n }\n\n/**\n
* \n * Groups elements of the original array by the key returned
by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key
associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K,
MutableList<Short>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K): M {\n  for (element in
this) {\n    val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<Short>() }\n    list.add(element)\n  }\n  return
destination\n }\n\n/**\n
* \n * Groups elements of the original array by the key returned by the given [keySelector]

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function\n * applied to each element and puts to the [destination] map each group key associated with a list of
corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K,
MutableList<Int>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K): M {\n for (element in this) {\n
val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Int>() }\n
list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned
by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key
associated
with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K,
MutableList<Long>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K): M {\n for (element in
this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Long>() }\n
list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned
by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key
associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K,
MutableList<Float>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K): M {\n for (element in
this)
{\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Float>() }\n
list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned
by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key
associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K,
MutableList<Double>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K): M {\n for
(element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) {
ArrayList<Double>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts
to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline
fun <K, M : MutableMap<in K, MutableList<Boolean>>> BooleanArray.groupByTo(destination: M, keySelector:
(Boolean) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<Boolean>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n
* Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharArray.groupByTo(destination: M,
keySelector: (Char) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<Char>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n
* Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the
key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each
group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M :
MutableMap<in K, MutableList<V>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n
return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element
of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts
to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The

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[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ByteArray.groupByTo(destination: M,
keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {\n  for (element in this) {\n    val key =
keySelector(element)\n    val list = destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n  }\n  return destination\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function
applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding
values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K,
valueTransform: (Short) -> V): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<V>() }\n    list.add(valueTransform(element))\n  }\n  return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> IntArray.groupByTo(destination: M,
keySelector: (Int) -> K, valueTransform: (Int) -> V): M {\n  for (element in this) {\n    val key =
keySelector(element)\n    val list = destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n  }\n  return destination\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a
list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K,
valueTransform: (Long)
-> V): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<V>() }\n    list.add(valueTransform(element))\n  }\n  return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> FloatArray.groupByTo(destination: M, keySelector:
(Float) -> K, valueTransform: (Float) -> V): M {\n  for (element in this) {\n    val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n    list.add(valueTransform(element))\n  }\n
return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element
of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts
to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> DoubleArray.groupByTo(destination: M,
keySelector: (Double) -> K, valueTransform: (Double) -> V): M {\n  for (element in this) {\n    val key =
keySelector(element)\n    val list = destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n  }\n  return destination\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function
applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding
values.\n * \n * @return The [destination] map.\n * \n * @sample

```

```

samples.collections.Collections.Transformations.groupByKeyAndValues\n * \n public inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K,
valueTransform: (Boolean) -> V): M {\n   for (element in this) {\n     val key = keySelector(element)\n     val list
= destination.getOrPut(key) { ArrayList<V>() }\n     list.add(valueTransform(element))\n   }\n   return
destination\n }\n\n\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n
\n * \n public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharArray.groupByTo(destination: M,
keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n   for (element in this) {\n     val key =
keySelector(element)\n     val list = destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n   }\n   return destination\n }\n\n\n * Creates a [Grouping] source from an
array to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract
a key from each element.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n
\n * \n @SinceKotlin("1.1")\n public inline fun <T, K> Array<out T>.groupingBy(crossinline keySelector: (T) -> K):
Grouping<T, K> {\n   return object : Grouping<T, K> {\n     override fun sourceIterator(): Iterator<T> =
this@groupingBy.iterator()\n     override fun keyOf(element: T): K = keySelector(element)\n
   }\n }\n\n\n * Returns a list containing the results of applying the given [transform] function\n * to each element
in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \n public inline fun
<T, R> Array<out T>.map(transform: (T) -> R): List<R> {\n   return mapTo(ArrayList<R>(size),
transform)\n }\n\n\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \n public
inline fun <R> ByteArray.map(transform: (Byte) -> R): List<R> {\n   return mapTo(ArrayList<R>(size),
transform)\n }\n\n\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \n public
inline fun <R> ShortArray.map(transform: (Short) -> R): List<R> {\n   return mapTo(ArrayList<R>(size),
transform)\n }\n\n\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \n public
inline fun <R> IntArray.map(transform: (Int) -> R): List<R> {\n   return mapTo(ArrayList<R>(size),
transform)\n }\n\n\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \n public
inline fun <R> LongArray.map(transform: (Long) -> R): List<R> {\n   return mapTo(ArrayList<R>(size),
transform)\n }\n\n\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \n public
inline fun <R> FloatArray.map(transform: (Float) -> R): List<R> {\n   return mapTo(ArrayList<R>(size),
transform)\n }\n\n\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \n public
inline fun <R> DoubleArray.map(transform: (Double) -> R): List<R> {\n   return mapTo(ArrayList<R>(size),
transform)\n }\n\n\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \n public
inline fun <R> BooleanArray.map(transform: (Boolean) -> R): List<R> {\n   return mapTo(ArrayList<R>(size),
transform)\n }\n\n\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \n public
inline fun <R> CharArray.map(transform: (Char) -> R): List<R> {\n   return mapTo(ArrayList<R>(size),
transform)\n }\n\n\n * Returns a list containing the results of applying the given [transform] function\n * to each
element and its index in the original array.\n * @param [transform] function that takes the index of an element and
the element itself\n * and returns the result of the transform applied to the element.\n * \n public inline fun <T, R>
Array<out T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n   return

```

```

mapIndexedTo(ArrayList<R>(size), transform)\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n */\npublic inline fun <R> ByteArray.mapIndexed(transform: (index: Int, Byte) -> R): List<R> {\n
return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the
results of applying the given [transform] function\n * to each element and its index in the original array.\n *
@param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n */\npublic inline fun <R> ShortArray.mapIndexed(transform: (index: Int,
Short) -> R): List<R> {\n
return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list
containing the results of applying the given [transform] function\n * to each element and its index in the original
array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the
result of the transform applied to the element.\n */\npublic inline fun <R> IntArray.mapIndexed(transform: (index:
Int, Int) -> R): List<R> {\n
return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list
containing the results of applying the given [transform] function\n * to each element and
its index in the original array.\n * @param [transform] function that takes the index of an element and the element
itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R>
LongArray.mapIndexed(transform: (index: Int, Long) -> R): List<R> {\n
return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n */\npublic inline fun <R> FloatArray.mapIndexed(transform: (index: Int, Float) -> R): List<R> {\n
return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying
the given [transform] function\n * to each element and its index in the original array.\n * @param [transform]
function that takes
the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
*/\npublic inline fun <R> DoubleArray.mapIndexed(transform: (index: Int, Double) -> R): List<R> {\n
return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n */\npublic inline fun <R> BooleanArray.mapIndexed(transform: (index: Int, Boolean) -> R): List<R> {\n
return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of
applying the given [transform] function\n * to each element and its index in the original array.\n * @param
[transform] function that takes the index of an element and the element itself\n * and returns the
result of the transform applied to the element.\n */\npublic inline fun <R> CharArray.mapIndexed(transform:
(index: Int, Char) -> R): List<R> {\n
return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns
a list containing only the non-null results of applying the given [transform] function\n * to each element and its
index in the original array.\n * @param [transform] function that takes the index of an element and the element
itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any>
Array<out T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n
return
mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each
element and its index in the original array\n * and appends only the non-null results to the given [destination].\n *
@param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform
applied to the element.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Array<out
T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n
forEachIndexed { index,
element -> transform(index, element)?.let { destination.add(it) } }\n
return destination\n}\n\n/**\n * Applies the
given [transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and

```

returns the result of the transform applied to the element.

```

public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

```

\* Applies the given [transform] function to each element and its index in the original array \* and appends the results to the given [destination].

\* @param [transform] function that takes the index of an element and the element itself \* and returns the result of the transform applied to the element.

```

public inline fun <R, C : MutableCollection<in R>> ByteArray.mapIndexedTo(destination: C, transform: (index: Int, Byte) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

```

\* Applies the given [transform] function to each element and its index in the original array \* and appends the results to the given [destination].

\* @param [transform] function that takes the index of an element and the element itself \* and returns the result of the transform applied to the element.

```

public inline fun <R, C : MutableCollection<in R>> ShortArray.mapIndexedTo(destination: C, transform: (index: Int, Short) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

```

\* Applies the given [transform] function to each element and its index in the original array \* and appends the results to the given [destination].

\* @param [transform] function that takes the index of an element and the element itself \* and returns the result of the transform applied to the element.

```

public inline fun <R, C : MutableCollection<in R>> IntArray.mapIndexedTo(destination: C, transform: (index: Int, Int) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

```

\* Applies the given [transform] function to each element and its index in the original array \* and appends the results to the given [destination].

\* @param [transform] function that takes the index of an element and the element itself \* and returns the result of the transform applied to the element.

```

public inline fun <R, C : MutableCollection<in R>> LongArray.mapIndexedTo(destination: C, transform: (index: Int, Long) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

```

\* Applies the given [transform] function to each element and its index in the original array \* and appends the results to the given [destination].

\* @param [transform] function that takes the index of an element and the element itself \* and returns the result of the transform applied to the element.

```

public inline fun <R, C : MutableCollection<in R>> FloatArray.mapIndexedTo(destination: C, transform: (index: Int, Float) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

```

\* Applies the given [transform] function to each element and its index in the original array \* and appends the results to the given [destination].

\* @param [transform] function that takes the index of an element and the element itself \* and returns the result of the transform applied to the element.

```

public inline fun <R, C : MutableCollection<in R>> DoubleArray.mapIndexedTo(destination: C, transform: (index: Int, Double) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

```

\* Applies the given [transform] function to each element and its index in the original array \* and appends the results to the given [destination].

\* @param [transform] function that takes the index of an element and the element itself \* and returns the result of the transform applied to the element.

```

public inline fun <R, C : MutableCollection<in R>> BooleanArray.mapIndexedTo(destination: C, transform: (index: Int, Boolean) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

```

\* Applies the given [transform] function to each element and its index in the original array \* and appends the results to the given [destination].

\* @param [transform] function that takes the index of an element and the element itself \* and returns the result of the transform applied to the element.

```

public inline fun <R, C : MutableCollection<in R>> CharArray.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

```

\* Returns a list containing only the non-null results of applying the given [transform] function \* to each element in the original array.

```

public inline fun <T, R : Any> Array<out T>.mapNotNull(transform: (T) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)
}

```

\* Applies the given [transform] function to each element in the original array \* and appends only the non-null

```

results to the given [destination].\n */\npublic inline fun <T, R : Any, C : MutableCollection<in
R>> Array<out T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n  forEach { element ->
transform(element)?.let { destination.add(it) } }\n  return destination\n}\n\n/**\n * Applies the given [transform]
function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic
inline fun <T, R, C : MutableCollection<in R>> Array<out T>.mapTo(destination: C, transform: (T) -> R): C {\n
for (item in this)\n  destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element of the original array\n * and appends the results to the given [destination].\n
*/\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.mapTo(destination: C, transform: (Byte) -> R):
C {\n  for (item in this)\n    destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the
given [transform] function to each element of the original array\n * and appends
the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>>
ShortArray.mapTo(destination: C, transform: (Short) -> R): C {\n  for (item in this)\n
destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C :
MutableCollection<in R>> IntArray.mapTo(destination: C, transform: (Int) -> R): C {\n  for (item in this)\n
destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C :
MutableCollection<in R>> LongArray.mapTo(destination: C, transform: (Long) -> R): C {\n  for (item in this)\n
destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the given [transform]
function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic
inline fun <R, C : MutableCollection<in R>> FloatArray.mapTo(destination: C, transform: (Float) -> R): C {\n  for
(item in this)\n    destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element of the original array\n * and appends the results to the given [destination].\n
*/\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.mapTo(destination: C, transform: (Double) ->
R): C {\n  for (item in this)\n    destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the
given [transform] function to each element of the original array\n * and appends the results to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.mapTo(destination: C,
transform: (Boolean) -> R): C {\n  for (item in this)\n    destination.add(transform(item))\n
return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n *
and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>>
CharArray.mapTo(destination: C, transform: (Char) -> R): C {\n  for (item in this)\n
destination.add(transform(item))\n  return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each
element of the original array\n * into an [IndexedValue] containing the index of that element and the element
itself.\n */\npublic fun <T> Array<out T>.withIndex(): Iterable<IndexedValue<T>> {\n  return IndexingIterable {
iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an
[IndexedValue] containing the index of that element and the element itself.\n */\npublic fun ByteArray.withIndex():
Iterable<IndexedValue<Byte>> {\n  return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy
[Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that
element and the element itself.\n */\npublic fun ShortArray.withIndex(): Iterable<IndexedValue<Short>> {\n
return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original
array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun
IntArray.withIndex(): Iterable<IndexedValue<Int>> {\n  return IndexingIterable { iterator() }\n}\n\n/**\n *
Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the
index of that element and the element itself.\n */\npublic fun LongArray.withIndex():
Iterable<IndexedValue<Long>> {\n  return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]
that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the
element

```

```

    itself.\n */\npublic fun FloatArray.withIndex(): Iterable<IndexedValue<Float>> {\n    return IndexingIterable {
        iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun
    DoubleArray.withIndex(): Iterable<IndexedValue<Double>> {\n    return IndexingIterable { iterator() }\n}\n\n/**\n
    * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the
    index of that element and the element itself.\n */\npublic fun BooleanArray.withIndex():
    Iterable<IndexedValue<Boolean>> {\n    return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy
    [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that
    element and the element itself.\n */\npublic fun CharArray.withIndex(): Iterable<IndexedValue<Char>> {\n    return
    IndexingIterable { iterator()
    }\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the
    resulting list are in the same order as they were in the source array.\n * \n * @sample
    samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun <T> Array<out
    T>.distinct(): List<T> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct
    elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the
    source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic
    fun ByteArray.distinct(): List<Byte> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing
    only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they
    were in the source array.\n * \n * @sample
    samples.collections.Collections.Transformations.distinctAndDistinctBy\n
    */\npublic fun ShortArray.distinct(): List<Short> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a
    list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same
    order as they were in the source array.\n * \n * @sample
    samples.collections.Collections.Transformations.distinctAndDistinctBy\n
    */\npublic fun IntArray.distinct():
    List<Int> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from
    the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n
    * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n
    */\npublic fun
    LongArray.distinct(): List<Long> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing
    only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they
    were
    in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n
    */\npublic fun FloatArray.distinct(): List<Float> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list
    containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same
    order as they were in the source array.\n * \n * @sample
    samples.collections.Collections.Transformations.distinctAndDistinctBy\n
    */\npublic fun DoubleArray.distinct():
    List<Double> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements
    from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source
    array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n
    */\npublic fun
    BooleanArray.distinct(): List<Boolean> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list
    containing only distinct elements
    from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source
    array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n
    */\npublic fun
    CharArray.distinct(): List<Char> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing
    only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The
    elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample
    samples.collections.Collections.Transformations.distinctAndDistinctBy\n
    */\npublic inline fun <T, K> Array<out
    T>.distinctBy(selector: (T) -> K): List<T> {\n    val set = HashSet<K>()\n    val list = ArrayList<T>()\n    for (e in
    this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n

```

Returns a list containing only elements from the given array having distinct keys returned by the given [selector] function. The elements in the resulting list are in the same order as they were in the source array.

```

samples.collections.Collections.Transformations.distinctAndDistinctBy
public inline fun <K>
ByteArray.distinctBy(selector: (Byte) -> K): List<Byte> {
    val set = HashSet<K>()
    val list = ArrayList<Byte>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key)) list.add(e)
    }
    return list
}

```

Returns a list containing only elements from the given array having distinct keys returned by the given [selector] function. The elements in the resulting list are in the same order as they were in the source array.

```

samples.collections.Collections.Transformations.distinctAndDistinctBy
public inline fun <K>
ShortArray.distinctBy(selector: (Short) -> K): List<Short> {
    val set = HashSet<K>()
    val list = ArrayList<Short>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key)) list.add(e)
    }
    return list
}

```

Returns a list containing only elements from the given array having distinct keys returned by the given [selector] function. The elements in the resulting list are in the same order as they were in the source array.

```

samples.collections.Collections.Transformations.distinctAndDistinctBy
public inline fun <K>
IntArray.distinctBy(selector: (Int) -> K): List<Int> {
    val set = HashSet<K>()
    val list = ArrayList<Int>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key)) list.add(e)
    }
    return list
}

```

Returns a list containing only elements from the given array having distinct keys returned by the given [selector] function. The elements in the resulting list are in the same order as they were in the source array.

```

samples.collections.Collections.Transformations.distinctAndDistinctBy
public inline fun <K>
LongArray.distinctBy(selector: (Long) -> K): List<Long> {
    val set = HashSet<K>()
    val list = ArrayList<Long>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key)) list.add(e)
    }
    return list
}

```

Returns a list containing only elements from the given array having distinct keys returned by the given [selector] function. The elements in the resulting list are in the same order as they were in the source array.

```

samples.collections.Collections.Transformations.distinctAndDistinctBy
public inline fun <K>
FloatArray.distinctBy(selector: (Float) -> K): List<Float> {
    val set = HashSet<K>()
    val list = ArrayList<Float>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key)) list.add(e)
    }
    return list
}

```

Returns a list containing only elements from the given array having distinct keys returned by the given [selector] function. The elements in the resulting list are in the same order as they were in the source array.

```

samples.collections.Collections.Transformations.distinctAndDistinctBy
public inline fun <K>
DoubleArray.distinctBy(selector: (Double) -> K): List<Double> {
    val set = HashSet<K>()
    val list = ArrayList<Double>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key)) list.add(e)
    }
    return list
}

```

Returns a list containing only elements from the given array having distinct keys returned by the given [selector] function. The elements in the resulting list are in the same order as they were in the source array.

```

samples.collections.Collections.Transformations.distinctAndDistinctBy
public inline fun <K>
BooleanArray.distinctBy(selector: (Boolean) -> K): List<Boolean> {
    val set = HashSet<K>()
    val list = ArrayList<Boolean>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key)) list.add(e)
    }
    return list
}

```

Returns a list containing only elements from the given array having distinct keys returned by the given [selector] function. The elements in the resulting list are in the same order as they were in the source array.

```

samples.collections.Collections.Transformations.distinctAndDistinctBy
public inline fun <K>
CharArray.distinctBy(selector: (Char) -> K): List<Char> {
    val set = HashSet<K>()
    val list = ArrayList<Char>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key)) list.add(e)
    }
    return list
}

```





Returns a mutable set containing all distinct elements from the given array. \n \* \n \* The returned set preserves the element iteration order of the original array. \n \*/\npublic fun CharArray.toMutableSet(): MutableSet<Char> {\n val set = LinkedHashSet<Char>(mapCapacity(size))\n for (item in this) set.add(item)\n return set\n}\n\n/\*\*\n \* Returns a set containing all distinct elements from both collections. \n \* \n \* The returned set preserves the element iteration order of the original array. \n \* Those elements of the [other] collection that are unique are iterated in the end\n \* in the order of the [other] collection. \n \* \n \* To get a set containing all elements that are contained in both collections use [intersect]. \n \*/\npublic infix fun <T> Array<out T>.union(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/\*\*\n \* Returns a set containing all distinct elements from both collections. \n \* \n \* The returned set preserves the element iteration order of the original array. \n \* Those elements of the [other] collection that are unique are iterated in the end\n \* in the order of the [other] collection. \n \* \n \* To get a set containing all elements that are contained in both collections use [intersect]. \n \*/\npublic infix fun ByteArray.union(other: Iterable<Byte>): Set<Byte> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/\*\*\n \* Returns a set containing all distinct elements from both collections. \n \* \n \* The returned set preserves the element iteration order of the original array. \n \* Those elements of the [other] collection that are unique are iterated in the end\n \* in the order of the [other] collection. \n \* \n \* To get a set containing all elements that are contained in both collections use [intersect]. \n \*/\npublic infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/\*\*\n \* Returns a set containing all distinct elements from both collections. \n \* \n \* The returned set preserves the element iteration order of the original array. \n \* Those elements of the [other] collection that are unique are iterated in the end\n \* in the order of the [other] collection. \n \* \n \* To get a set containing all elements that are contained in both collections use [intersect]. \n \*/\npublic infix fun IntArray.union(other: Iterable<Int>): Set<Int> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/\*\*\n \* Returns a set containing all distinct elements from both collections. \n \* \n \* The returned set preserves the element iteration order of the original array. \n \* Those elements of the [other] collection that are unique are iterated in the end\n \* in the order of the [other] collection. \n \* \n \* To get a set containing all elements that are contained in both collections use [intersect]. \n \*/\npublic infix fun LongArray.union(other: Iterable<Long>): Set<Long> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/\*\*\n \* Returns a set containing all distinct elements from both collections. \n \* \n \* The returned set preserves the element iteration order of the original array. \n \* Those elements of the [other] collection that are unique are iterated in the end\n \* in the order of the [other] collection. \n \* \n \* To get a set containing all elements that are contained in both collections use [intersect]. \n \*/\npublic infix fun FloatArray.union(other: Iterable<Float>): Set<Float> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/\*\*\n \* Returns a set containing all distinct elements from both collections. \n \* \n \* The returned set preserves the element iteration order of the original array. \n \* Those elements of the [other] collection that are unique are iterated in the end\n \* in the order of the [other] collection. \n \* \n \* To get a set containing all elements that are contained in both collections use [intersect]. \n \*/\npublic infix fun DoubleArray.union(other: Iterable<Double>): Set<Double> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/\*\*\n \* Returns a set containing all distinct elements from both collections. \n \* \n \* The returned set preserves the element iteration order of the original array. \n \* Those elements of the [other] collection that are unique are iterated in the end\n \* in the order of the [other] collection. \n \* \n \* To get a set containing all elements that are contained in both collections use [intersect]. \n \*/\npublic infix fun BooleanArray.union(other: Iterable<Boolean>): Set<Boolean> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/\*\*\n \* Returns a set containing all distinct elements from both collections. \n \* \n \* The returned set preserves the element iteration order of the original array. \n \* Those elements of the [other] collection that are unique are iterated in the end\n \* in the order of the [other] collection. \n \* \n \* To get a set containing all elements that are contained in both collections use [intersect]. \n \*/\npublic infix fun CharArray.union(other: Iterable<Char>): Set<Char> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/\*\*\n \* Returns `true` if all elements match the given [predicate]. \n \* \n \* \n \*/

```

@sample samples.collections.Collections.Aggregates.all\n *^\\npublic inline fun <T> Array<out T>.all(predicate: (T)
-> Boolean): Boolean {\n  for (element in this) if (!predicate(element)) return false\n  return true\n}\n\n/**\n *
Returns `true` if all elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n *^\\npublic inline fun
ByteArray.all(predicate: (Byte) -> Boolean): Boolean {\n  for (element in this) if (!predicate(element)) return
false\n  return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n *^\\npublic inline fun ShortArray.all(predicate: (Short) -> Boolean):
Boolean {\n  for (element in this) if (!predicate(element)) return false\n  return true\n}\n\n/**\n * Returns `true` if
all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n
*^\\npublic inline fun IntArray.all(predicate: (Int) -> Boolean): Boolean {\n  for (element in this) if
(!predicate(element)) return false\n  return true\n}\n\n/**\n * Returns `true` if all elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n *^\\npublic inline fun
LongArray.all(predicate: (Long) -> Boolean): Boolean {\n  for (element in this) if (!predicate(element)) return
false\n  return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n *^\\npublic inline fun FloatArray.all(predicate: (Float) -> Boolean):
Boolean {\n  for (element in this) if (!predicate(element)) return false\n  return true\n}\n\n/**\n * Returns `true` if
all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n
*^\\npublic inline fun DoubleArray.all(predicate: (Double) -> Boolean): Boolean {\n  for (element in this) if
(!predicate(element)) return false\n  return true\n}\n\n/**\n * Returns `true` if all elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n *^\\npublic inline fun
BooleanArray.all(predicate: (Boolean) -> Boolean): Boolean {\n  for (element in this) if (!predicate(element))
return false\n  return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.all\n *^\\npublic inline fun CharArray.all(predicate: (Char) ->
Boolean): Boolean {\n  for (element in this) if (!predicate(element)) return false\n  return true\n}\n\n/**\n *
Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n
*^\\npublic fun <T> Array<out T>.any(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at
least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n *^\\npublic fun
ByteArray.any(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n *
\n * @sample samples.collections.Collections.Aggregates.any\n *^\\npublic fun ShortArray.any(): Boolean {\n
return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n *^\\npublic fun IntArray.any(): Boolean {\n  return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n *^\\npublic fun LongArray.any(): Boolean {\n  return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n *^\\npublic fun FloatArray.any(): Boolean {\n  return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n *^\\npublic fun DoubleArray.any(): Boolean {\n  return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n *^\\npublic fun BooleanArray.any(): Boolean {\n  return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n
*^\\npublic fun CharArray.any(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one element
matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*^\\npublic inline fun <T> Array<out T>.any(predicate: (T) -> Boolean): Boolean {\n  for (element in this) if
(predicate(element)) return true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the
given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n *^\\npublic
inline fun ByteArray.any(predicate: (Byte) -> Boolean): Boolean {\n  for (element in this) if (predicate(element))
return true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *

```

```

@sample samples.collections.Collections.Aggregates.anyWithPredicate\n *\npublic inline fun
ShortArray.any(predicate: (Short) -> Boolean): Boolean {\n
    for (element in this) if (predicate(element)) return true\n    return false\n}\n\n/**\n * Returns `true` if at least one
element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n *\npublic inline fun IntArray.any(predicate: (Int) -
> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return false\n}\n\n/**\n *
Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n *\npublic inline fun LongArray.any(predicate:
(Long) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n *\npublic inline fun FloatArray.any(predicate:
(Float) -> Boolean): Boolean {\n    for (element in this) if (predicate(element))
return true\n    return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n
* @sample samples.collections.Collections.Aggregates.anyWithPredicate\n *\npublic inline fun
DoubleArray.any(predicate: (Double) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
true\n    return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n *\npublic inline fun
BooleanArray.any(predicate: (Boolean) -> Boolean): Boolean {\n    for (element in this) if (predicate(element))
return true\n    return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n
* @sample samples.collections.Collections.Aggregates.anyWithPredicate\n *\npublic inline fun
CharArray.any(predicate: (Char) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
true\n
return false\n}\n\n/**\n * Returns the number of elements in this array.\n *\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Array<out T>.count(): Int {\n    return size\n}\n\n/**\n * Returns the number of elements in this
array.\n *\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.count(): Int {\n    return size\n}\n\n/**\n *
Returns the number of elements in this array.\n *\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.count(): Int {\n    return size\n}\n\n/**\n * Returns the number of elements in this array.\n *\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.count(): Int {\n    return size\n}\n\n/**\n * Returns the
number of elements in this array.\n *\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.count(): Int {\n
return size\n}\n\n/**\n * Returns the number of elements in this array.\n *\n@kotlin.internal.InlineOnly\npublic
inline fun FloatArray.count(): Int {\n    return size\n}\n\n/**\n * Returns the number of elements
in this array.\n *\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.count(): Int {\n    return
size\n}\n\n/**\n * Returns the number of elements in this array.\n *\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.count(): Int {\n    return size\n}\n\n/**\n * Returns the number of elements in this array.\n *\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.count(): Int {\n    return size\n}\n\n/**\n * Returns the
number of elements matching the given [predicate].\n *\npublic inline fun <T> Array<out T>.count(predicate: (T) -
> Boolean): Int {\n    var count = 0\n    for (element in this) if (predicate(element)) ++count\n    return
count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n *\npublic inline fun
ByteArray.count(predicate: (Byte) -> Boolean): Int {\n    var count = 0\n    for (element in this) if
(predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n *\npublic inline fun ShortArray.count(predicate: (Short) -> Boolean): Int {\n    var count = 0\n    for (element in
this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements matching the
given [predicate].\n *\npublic inline fun IntArray.count(predicate: (Int) -> Boolean): Int {\n    var count = 0\n    for
(element in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements
matching the given [predicate].\n *\npublic inline fun LongArray.count(predicate: (Long) -> Boolean): Int {\n    var
count = 0\n    for (element in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the
number of elements matching the given [predicate].\n *\npublic inline fun FloatArray.count(predicate: (Float) ->

```

```

Boolean): Int {\n  var count = 0\n  for (element in this) if (predicate(element)) ++count\n  return
count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n
*\n\npublic inline fun DoubleArray.count(predicate: (Double) -> Boolean): Int {\n  var count = 0\n  for (element in
this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements matching the
given [predicate].\n
*\n\npublic inline fun BooleanArray.count(predicate: (Boolean) -> Boolean): Int {\n  var count
= 0\n  for (element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of
elements matching the given [predicate].\n
*\n\npublic inline fun CharArray.count(predicate: (Char) -> Boolean): Int
{\n  var count = 0\n  for (element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator
value and each element.\n
*\n\npublic inline fun <T, R> Array<out T>.fold(initial: R, operation: (acc: R, T) -> R): R
{\n  var accumulator = initial\n  for (element in this) accumulator
= operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]
value and applying [operation] from left to right to current accumulator value and each element.\n
*\n\npublic inline fun <R> ByteArray.fold(initial: R, operation: (acc: R, Byte) -> R): R {\n  var accumulator =
initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator
value and each element.\n
*\n\npublic inline fun <R> ShortArray.fold(initial: R, operation: (acc: R, Short) -> R): R {\n  var
accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right
to current accumulator value and each element.\n
*\n\npublic inline fun <R> IntArray.fold(initial:
R, operation: (acc: R, Int) -> R): R {\n  var accumulator = initial\n  for (element in this) accumulator =
operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]
value and applying [operation] from left to right to current accumulator value and each element.\n
*\n\npublic inline fun <R> LongArray.fold(initial: R, operation: (acc: R, Long) -> R): R {\n  var
accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right
to current accumulator value and each element.\n
*\n\npublic inline fun <R> FloatArray.fold(initial: R, operation: (acc: R, Float) -> R): R {\n  var
accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right to current accumulator value and each element.\n
*\n\npublic inline fun <R>
DoubleArray.fold(initial: R, operation: (acc: R, Double) -> R): R {\n  var accumulator = initial\n  for (element in
this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right to current accumulator value and each
element.\n
*\n\npublic inline fun <R> BooleanArray.fold(initial: R, operation: (acc: R, Boolean) -> R): R {\n  var
accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right
to current accumulator value and each element.\n
*\n\npublic inline fun <R> CharArray.fold(initial: R, operation:
(acc: R, Char) -> R): R {\n  var accumulator = initial\n  for (element in this) accumulator
= operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]
value and applying [operation] from left to right\n
*\n * to current accumulator value and each element with its index in
the original array.\n
*\n * @param [operation] function that takes the index of an element, current accumulator value\n
*\n * and the element itself, and calculates the next accumulator value.\n
*\n\npublic inline fun <T, R> Array<out
T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n  var index = 0\n  var accumulator =
initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n
*\n * to current accumulator value and each element with its index in the original array.\n
*\n * @param [operation]
function that takes the index of an element, current accumulator value\n
*\n * and the element

```

itself, and calculates the next accumulator value.

```

public inline fun <R> ByteArray.foldIndexed(initial: R,
operation: (index: Int, acc: R, Byte) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

public inline fun <R> ShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

public inline fun <R> IntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

public inline fun <R> LongArray.foldIndexed(initial: R, operation:
(index: Int, acc: R, Long) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

public inline fun <R> FloatArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

public inline fun <R> DoubleArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

public inline fun <R> BooleanArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

public inline fun <R> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

```

public inline fun <T, R> Array<out T>.foldRight(initial: R,
operation: (T, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

```

public inline fun <R> ByteArray.foldRight(initial: R,

```

```

operation: (Byte, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

* Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

public inline fun <R> ShortArray.foldRight(initial: R, operation: (Short, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

* Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

public inline fun <R> IntArray.foldRight(initial: R, operation: (Int, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

* Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

public inline fun <R> LongArray.foldRight(initial: R, operation: (Long, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

* Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

public inline fun <R> FloatArray.foldRight(initial: R, operation: (Float, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

* Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

public inline fun <R> DoubleArray.foldRight(initial: R, operation: (Double, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

* Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

public inline fun <R> BooleanArray.foldRight(initial: R, operation: (Boolean, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

* Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

public inline fun <R> CharArray.foldRight(initial: R, operation: (Char, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

* Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

public inline fun <T, R> Array<out T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

* Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

public inline fun <R> ByteArray.foldRightIndexed(initial: R, operation: (index: Int, Byte, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

* Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

public inline fun <R> ShortArray.foldRightIndexed(initial: R, operation: (index: Int, Short, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

* Accumulates value starting with [initial] value and applying [operation] from right to left to each element with

```

its index in the original array and current accumulator value.\n \* @param [operation] function that takes the index of an element, the element itself\n \* and current accumulator value, and calculates the next accumulator value.\n

```

*\npublic inline fun <R> IntArray.foldRightIndexed(initial: R, operation:
(index: Int, Int, acc: R) -> R): R {\n  var index = lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n*\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n

```

\n

```

*\npublic inline fun <R> LongArray.foldRightIndexed(initial: R, operation: (index: Int, Long, acc: R) -> R): R {\n
var index = lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index,
get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n*\n * Accumulates value starting with
[initial] value and applying [operation]

```

from right to left\n \* to each element with its index in the original array and current accumulator value.\n \* @param [operation] function that takes the index of an element, the element itself\n \* and current accumulator value, and calculates the next accumulator value.\n

```

*\npublic inline fun <R> FloatArray.foldRightIndexed(initial: R,
operation: (index: Int, Float, acc: R) -> R): R {\n  var index = lastIndex\n  var accumulator = initial\n  while
(index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return
accumulator\n}\n\n*\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation]
function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the
next accumulator value.\n

```

```

*\npublic inline fun <R> DoubleArray.foldRightIndexed(initial:
R, operation: (index: Int, Double, acc: R) -> R): R {\n  var index = lastIndex\n  var accumulator = initial\n
while (index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return
accumulator\n}\n\n*\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation]
function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the
next accumulator value.\n

```

```

*\npublic inline fun <R> BooleanArray.foldRightIndexed(initial: R, operation: (index:
Int, Boolean, acc: R) -> R): R {\n  var index = lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n*\n * Accumulates value starting with [initial]
value and applying [operation] from right to left\n * to each element with its index in the original array and current
accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and
current accumulator value, and calculates the next accumulator value.\n

```

```

*\npublic inline fun <R>
CharArray.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {\n  var index = lastIndex\n
var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n
--index\n  }\n  return accumulator\n}\n\n*\n * Performs the given [action] on each element.\n

```

```

*\npublic
inline fun <T> Array<out T>.forEach(action: (T) -> Unit): Unit {\n  for (element in this)
action(element)\n}\n\n*\n * Performs the given [action] on each element.\n

```

```

*\npublic inline fun
ByteArray.forEach(action: (Byte) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n*\n * Performs
the given

```

[action] on each element.\n

```

*\npublic inline fun ShortArray.forEach(action: (Short) -> Unit): Unit {\n  for
(element in this) action(element)\n}\n\n*\n * Performs the given [action] on each element.\n

```

```

*\npublic inline fun
IntArray.forEach(action: (Int) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n*\n * Performs the
given [action] on each element.\n

```

```

*\npublic inline fun LongArray.forEach(action: (Long) -> Unit): Unit {\n  for
(element in this) action(element)\n}\n\n*\n * Performs the given [action] on each element.\n

```

```

*\npublic inline fun
FloatArray.forEach(action: (Float) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n*\n * Performs
the given [action] on each element.\n

```

```

*\npublic inline fun DoubleArray.forEach(action: (Double) -> Unit): Unit {\n  for
(element in this) action(element)\n}\n\n*\n * Performs the given [action] on each element.\n

```

```

fun BooleanArray.forEach(action: (Boolean) -> Unit): Unit {
    for (element in this) action(element)
}

fun CharArray.forEach(action: (Char) -> Unit): Unit {
    for (element in this) action(element)
}

fun <T> Array<out T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

fun ByteArray.forEachIndexed(action: (index: Int, Byte) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

fun ShortArray.forEachIndexed(action: (index: Int, Short) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

fun IntArray.forEachIndexed(action: (index: Int, Int) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

fun LongArray.forEachIndexed(action: (index: Int, Long) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

fun FloatArray.forEachIndexed(action: (index: Int, Float) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

fun DoubleArray.forEachIndexed(action: (index: Int, Double) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

fun BooleanArray.forEachIndexed(action: (index: Int, Boolean) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

fun CharArray.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

fun Array<out Double>.max(): Double? {
    if (isEmpty()) return null
    var max = this[0]
    if (max.isNaN()) return max
    for (i in 1..lastIndex) {
        val e = this[i]
        if (e.isNaN()) return e
        if (max < e) max = e
    }
    return max
}

fun Array<out Float>.max(): Float? {
    if (isEmpty()) return null
    var max = this[0]
    if (max.isNaN()) return max
    for (i in 1..lastIndex) {
        val e = this[i]
        if (e.isNaN()) return e
        if (max < e) max = e
    }
    return max
}

fun <T : Comparable<T>> Array<out T>.max(): T? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

fun ByteArray.max(): Byte? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e

```

```

= this[i]\n    if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there
are no elements.\n */\npublic fun ShortArray.max(): Short? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns
the largest element or `null` if there are no elements.\n */\npublic fun IntArray.max(): Int? {\n    if (isEmpty()) return
null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return
max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun LongArray.max():
Long? {\n    if (isEmpty())\n        return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is
`NaN` returns `NaN`.\n */\npublic fun FloatArray.max(): Float? {\n    if (isEmpty()) return null\n    var max =
this[0]\n    if (max.isNaN()) return max\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (e.isNaN()) return
e\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no
elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\npublic fun DoubleArray.max(): Double? {\n    if
(isEmpty()) return null\n    var max = this[0]\n    if (max.isNaN()) return max\n    for (i in 1..lastIndex) {\n        val e
= this[i]\n        if (e.isNaN()) return e\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the
largest element
or `null` if there are no elements.\n */\npublic fun CharArray.max(): Char? {\n    if (isEmpty()) return null\n    var
max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return
max\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no
elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <T, R :
Comparable<R>> Array<out T>.maxBy(selector: (T) -> R): T? {\n    if (isEmpty()) return null\n    var maxElem =
this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue =
selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)\n            {\n                maxElem = e\n                maxValue = v\n            }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null`
if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
ByteArray.maxBy(selector: (Byte) -> R): Byte? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val
lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue =
selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)\n            {\n                maxElem = e\n                maxValue = v\n            }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null`
if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
ShortArray.maxBy(selector: (Short) -> R): Short? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val
lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue =
selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue <
v)\n            {\n                maxElem = e\n                maxValue = v\n            }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null`
if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
IntArray.maxBy(selector: (Int) -> R): Int? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val
lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i
in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)\n            {\n                maxElem = e\n                maxValue = v\n            }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value
of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
LongArray.maxBy(selector: (Long) -> R): Long? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val
lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i
in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)\n            {\n                maxElem = e\n                maxValue = v\n            }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value
of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>

```

```

of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
FloatArray.maxBy(selector: (Float) -> R): Float? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val
lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxV = selector(maxElem)\n
for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxV < v) {\n maxElem
= e\n maxV = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the
largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
DoubleArray.maxBy(selector: (Double) -> R): Double? {\n if (isEmpty()) return null\n var maxElem = this[0]\n
val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxV = selector(maxElem)\n for
(i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxV < v) {\n maxElem = e\n
maxV = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest
value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
BooleanArray.maxBy(selector: (Boolean) -> R): Boolean? {\n if (isEmpty()) return null\n var maxElem =
this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxV =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxV < v)
{\n maxElem = e\n maxV = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
CharArray.maxBy(selector: (Char) -> R): Char? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val
lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxV = selector(maxElem)\n for (i
in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxV < v) {\n maxElem = e\n
maxV = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element having the largest value
according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun <T> Array<out
T>.maxWith(comparator: Comparator<in T>): T? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in
1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return
max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null`
if there are no elements.\n */\npublic fun ByteArray.maxWith(comparator: Comparator<in Byte>): Byte? {\n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no
elements.\n */\npublic fun ShortArray.maxWith(comparator: Comparator<in Short>): Short? {\n if (isEmpty())
return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max,
e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the
provided [comparator] or `null` if there are no elements.\n */\npublic fun IntArray.maxWith(comparator:
Comparator<in Int>): Int? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val
e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first
element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*/\npublic fun LongArray.maxWith(comparator: Comparator<in
Long>): Long? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e =
this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first
element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*/\npublic fun FloatArray.maxWith(comparator: Comparator<in Float>): Float? {\n if (isEmpty()) return null\n
var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max =
e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided
[comparator] or `null` if there are no elements.\n */\npublic fun DoubleArray.maxWith(comparator: Comparator<in
Double>): Double? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e =

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this[i]\n    if (comparator.compare(max, e) < 0) max
= e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided
[comparator] or `null` if there are no elements.\n */\npublic fun BooleanArray.maxWith(comparator: Comparator<in
Boolean>): Boolean? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e =
this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first
element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*/\npublic fun CharArray.maxWith(comparator: Comparator<in Char>): Char? {\n    if (isEmpty()) return null\n
var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max =
e\n    }\n    return max\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of
elements is `NaN` returns `NaN`.\n */\n@SinceKotlin("1.1")\npublic
fun Array<out Double>.min(): Double? {\n    if (isEmpty()) return null\n    var min = this[0]\n    if (min.isNaN())
return min\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (e.isNaN()) return e\n        if (min > e) min = e\n
}\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of
elements is `NaN` returns `NaN`.\n */\n@SinceKotlin("1.1")\npublic fun Array<out Float>.min(): Float? {\n    if
(isEmpty()) return null\n    var min = this[0]\n    if (min.isNaN()) return min\n    for (i in 1..lastIndex) {\n        val e =
this[i]\n        if (e.isNaN()) return e\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the
smallest element or `null` if there are no elements.\n */\npublic fun <T : Comparable<T>> Array<out T>.min(): T?
{\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min >
e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun
ByteArray.min(): Byte? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e
= this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there
are no elements.\n */\npublic fun ShortArray.min(): Short? {\n    if (isEmpty()) return null\n    var min = this[0]\n
for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the
smallest element or `null` if there are no elements.\n */\npublic fun IntArray.min(): Int? {\n    if (isEmpty()) return
null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n
return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun LongArray.min():
Long? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e)
min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If
any of elements is `NaN` returns `NaN`.\n */\npublic fun FloatArray.min(): Float? {\n    if (isEmpty()) return null\n
var min = this[0]\n    if (min.isNaN()) return min\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (e.isNaN())
return e\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there
are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\npublic fun DoubleArray.min(): Double?
{\n    if (isEmpty()) return null\n    var min = this[0]\n    if (min.isNaN()) return min\n    for (i in 1..lastIndex) {\n
val e = this[i]\n        if (e.isNaN()) return e\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the
smallest element or `null` if there are no elements.\n */\npublic fun CharArray.min(): Char? {\n    if (isEmpty())
return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n
return min\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there
are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <T, R :
Comparable<R>> Array<out T>.minBy(selector: (T) -> R): T? {\n    if (isEmpty()) return null\n    var minElem =
this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue =
selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v)
{\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given
function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>>
ByteArray.minBy(selector: (Byte) -> R): Byte? {\n    if (isEmpty())
return null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n

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var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if
(minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n *
Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>>
ShortArray.minBy(selector: (Short) -> R): Short? {\n if (isEmpty()) return null\n var minElem = this[0]\n val
lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n
var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n
if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n *
Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>>
IntArray.minBy(selector: (Int) -> R): Int? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex
= this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in
1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n
minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value
of the given function or `null` if
there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun
<R : Comparable<R>> LongArray.minBy(selector: (Long) -> R): Long? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>>
FloatArray.minBy(selector: (Float) -> R): Float? {\n if (isEmpty()) return null\n var minElem = this[0]\n val
lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>>
DoubleArray.minBy(selector: (Double) -> R): Double? {\n if (isEmpty()) return null\n var minElem = this[0]\n
val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i
in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n
minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value
of the given function or `null` if there are
no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R :
Comparable<R>> BooleanArray.minBy(selector: (Boolean) -> R): Boolean? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>>
CharArray.minBy(selector: (Char) -> R): Char? {\n if (isEmpty()) return null\n var minElem = this[0]\n val
lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n
for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem
= e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n * \n */\npublic fun <T>
Array<out T>.minWith(comparator: Comparator<in T>): T? {\n if (isEmpty()) return null\n var min = this[0]\n
for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return
min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or

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`null` if there are no elements.\n */\npublic fun ByteArray.minWith(comparator: Comparator<in Byte>): Byte? {\n
if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if
(comparator.compare(min, e) > 0) min
= e\n    }\n    return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided
[comparator] or `null` if there are no elements.\n */\npublic fun ShortArray.minWith(comparator: Comparator<in
Short>): Short? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e =
this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first
element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*/\npublic fun IntArray.minWith(comparator: Comparator<in Int>): Int? {\n    if (isEmpty()) return null\n    var min
= this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n
return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator]
or `null` if there are no elements.\n */\npublic fun LongArray.minWith(comparator:
Comparator<in Long>): Long? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n
        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first
element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*/\npublic fun FloatArray.minWith(comparator: Comparator<in Float>): Float? {\n    if (isEmpty()) return null\n
var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min =
e\n    }\n    return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided
[comparator] or `null` if there are no elements.\n */\npublic fun DoubleArray.minWith(comparator: Comparator<in
Double>): Double? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e =
this[i]\n        if (comparator.compare(min,
e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element having the smallest value according to
the provided [comparator] or `null` if there are no elements.\n */\npublic fun BooleanArray.minWith(comparator:
Comparator<in Boolean>): Boolean? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex)
{\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns
the first element having the smallest value according to the provided [comparator] or `null` if there are no
elements.\n */\npublic fun CharArray.minWith(comparator: Comparator<in Char>): Char? {\n    if (isEmpty())
return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min,
e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns `true` if the array has no elements.\n */\n * @sample
samples.collections.Collections.Aggregates.none\n\n*/\npublic fun <T> Array<out T>.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if the array
has no elements.\n */\n * @sample samples.collections.Collections.Aggregates.none\n\n*/\npublic fun
ByteArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n */\n * @sample
samples.collections.Collections.Aggregates.none\n\n*/\npublic fun ShortArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n */\n * @sample
samples.collections.Collections.Aggregates.none\n\n*/\npublic fun IntArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n */\n * @sample
samples.collections.Collections.Aggregates.none\n\n*/\npublic fun LongArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n */\n * @sample
samples.collections.Collections.Aggregates.none\n\n*/\npublic fun FloatArray.none():
Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n */\n * @sample
samples.collections.Collections.Aggregates.none\n\n*/\npublic fun DoubleArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n */\n * @sample
samples.collections.Collections.Aggregates.none\n\n*/\npublic fun BooleanArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n */\n * @sample
samples.collections.Collections.Aggregates.none\n\n*/\npublic fun CharArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n */\n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n\n*/\npublic inline fun <T> Array<out

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T>.none(predicate: (T) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

Returns `true` if no elements match the given [predicate].

@sample samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun
ByteArray.none(predicate: (Byte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return
    false
    return true
}

Returns `true` if no elements match the given [predicate].

@sample
samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun ShortArray.none(predicate:
(Short) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return
    true
}

Returns `true` if no elements match the given [predicate].

@sample
samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun IntArray.none(predicate: (Int)
-> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

Returns `true` if no elements match the given [predicate].

@sample
samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun LongArray.none(predicate: (Long) -> Boolean): Boolean {
    for (element in this) if
    (predicate(element)) return false
    return true
}

Returns `true` if no elements match the given
[predicate].

@sample samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun
FloatArray.none(predicate: (Float) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return
    false
    return true
}

Returns `true` if no elements match the given [predicate].

@sample
samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun DoubleArray.none(predicate:
(Double) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return
    true
}

Returns `true` if no elements match the given [predicate].

@sample
samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun
BooleanArray.none(predicate:
(Boolean) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return
    true
}

Returns `true` if no elements match the given [predicate].

@sample
samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun CharArray.none(predicate:
(Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return
    true
}

Accumulates value starting with the first element and applying [operation] from left to right to
current accumulator value and each element.

@sample samples.collections.Collections.Aggregates.reduce

public inline fun <S, T : S> Array<out T>.reduce(operation: (acc: S, T) -> S): S {
    if (isEmpty())
        throw
        UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator: S = this[0]
    for (index
    in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

Accumulates value starting with the first element and applying [operation] from left to right to current
accumulator value and each element.

@sample samples.collections.Collections.Aggregates.reduce

public inline fun ByteArray.reduce(operation: (acc: Byte, Byte) -> Byte): Byte {
    if (isEmpty())
        throw
        UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index
    in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

Accumulates value starting with the first element and applying [operation] from left to right to current
accumulator value and each element.

@sample samples.collections.Collections.Aggregates.reduce

public inline fun ShortArray.reduce(operation: (acc: Short, Short) -> Short): Short {
    if (isEmpty())
        throw
        UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator
    = this[0]
    for (index
    in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return
    accumulator
}

Accumulates value starting with the first element and applying [operation] from left to
right to current accumulator value and each element.

@sample
samples.collections.Collections.Aggregates.reduce

public inline fun IntArray.reduce(operation: (acc: Int, Int) -
> Int): Int {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index
    in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

Accumulates value starting with the first element and applying [operation]
from left to right to current accumulator value and each element.

@sample

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samples.collections.Collections.Aggregates.reduce\n * \npublic inline fun LongArray.reduce(operation: (acc: Long, Long) -> Long):
Long {\n if (isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n * \npublic inline fun FloatArray.reduce(operation: (acc: Float, Float) -> Float): Float {\n if (isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n * \npublic inline fun DoubleArray.reduce(operation: (acc: Double, Double) -> Double): Double {\n if (isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n * \npublic inline fun BooleanArray.reduce(operation: (acc: Boolean, Boolean) -> Boolean): Boolean {\n if (isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n * \npublic inline fun CharArray.reduce(operation: (acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n * \npublic inline fun <S, T : S> Array<out T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n if (isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator: S = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n * \npublic inline fun ByteArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte {\n if (isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator}\n\n/**\n * Accumulates value starting with

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S> Array<out
T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n if (isEmpty())\n return null\n var accumulator: S =
this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right to current accumulator value and each element. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun ByteArray.reduceOrNull(operation: (acc:
Byte, Byte) -> Byte): Byte? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting
with the first element and applying [operation] from left to right to current accumulator value and each element.
Returns null if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun ShortArray.reduceOrNull(operation: (acc:
Short, Short) -> Short): Short? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the first element and applying [operation] from left to right to current accumulator
value and each element. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun IntArray.reduceOrNull(operation: (acc: Int,
Int) -> Int): Int? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator =
operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the
first element and applying [operation] from left to right to current accumulator value and each element. Returns null
if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun LongArray.reduceOrNull(operation: (acc:
Long, Long) -> Long): Long? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the first element and applying [operation] from left to right to current accumulator
value and each element. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun FloatArray.reduceOrNull(operation: (acc:
Float, Float) -> Float): Float? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the first element and applying [operation] from left to right to current accumulator
value and each element. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun DoubleArray.reduceOrNull(operation: (acc:
Double, Double) -> Double): Double? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for
(index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right to current
accumulator value and each element. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun BooleanArray.reduceOrNull(operation:
(acc: Boolean, Boolean) -> Boolean): Boolean? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n
for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right to current accumulator value and each element. Returns null if the array is empty.\n * \n * @sample

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samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun CharArray.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {\n    if (isEmpty())\n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\n * @sample samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun <S, T : S> Array<out T>.reduceRight(operation: (T, acc: S) -> S): S {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator: S = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\n * @sample samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun ByteArray.reduceRight(operation: (Byte, acc: Byte) -> Byte): Byte {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\n * @sample samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun ShortArray.reduceRight(operation: (Short, acc: Short) -> Short): Short {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\n * @sample samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun IntArray.reduceRight(operation: (Int, acc: Int) -> Int): Int {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\n * @sample samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun LongArray.reduceRight(operation: (Long, acc: Long) -> Long): Long {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\n * @sample samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun FloatArray.reduceRight(operation: (Float, acc: Float) -> Float): Float {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\n * @sample samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun DoubleArray.reduceRight(operation: (Double, acc: Double) -> Double): Double {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\n * @sample samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var

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accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n
}\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation]
from right to left to each element and current accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun CharArray.reduceRight(operation:
(Char, acc: Char) -> Char): Char {\n var index = lastIndex\n if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while
(index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its
index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an
element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun <S, T : S> Array<out
T>.reduceRightIndexed(operation:
(index: Int, T, acc: S) -> S): S {\n var index = lastIndex\n if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator: S = get(index--)\n while
(index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n *
to each element with its index in the original array and current accumulator value.\n * @param [operation]
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next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n *\npublic
inline fun ByteArray.reduceRightIndexed(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n
var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element
and applying [operation] from right to left\n * to each element with its index in the original array and current
accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and
current accumulator value, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun
ShortArray.reduceRightIndexed(operation: (index: Int, Short, acc: Short) -> Short): Short {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation]
function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n *\npublic
inline fun IntArray.reduceRightIndexed(operation: (index: Int, Int, acc: Int) -> Int): Int {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator =
get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n
}\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from
right to left\n * to each element with its index in the original array
and current accumulator value.\n * @param [operation] function that takes the index of an element, the element
itself\n * and current accumulator value, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun
LongArray.reduceRightIndexed(operation: (index: Int, Long, acc: Long) -> Long): Long {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element
and applying [operation] from right to left\n * to each element with its index in the original array and current

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accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and
current accumulator value, and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n * \npublic
inline fun FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {\n  var index =
lastIndex\n  if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var
accumulator = get(index--)\n  while (index >= 0) {\n    accumulator = operation(index, get(index),
accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with last element
and applying [operation] from right to left\n * to each element with its index in the original array and current
accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and
current accumulator value, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n * \npublic inline fun
DoubleArray.reduceRightIndexed(operation:
(index: Int, Double, acc: Double) -> Double): Double {\n  var index = lastIndex\n  if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = get(index--)\n  while
(index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return
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function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n * \npublic
inline fun BooleanArray.reduceRightIndexed(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean
{\n  var index = lastIndex\n  if (index < 0) throw UnsupportedOperationException("Empty array
can't be reduced.")\n  var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator =
operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates
value starting with last element and applying [operation] from right to left\n * to each element with its index in the
original array and current accumulator value.\n * @param [operation] function that takes the index of an element,
the element itself\n * and current accumulator value, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n * \npublic inline fun
CharArray.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n  var index = lastIndex\n
if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator =
get(index--)\n  while (index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n
}\n  return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation]
from right to left to each element and current accumulator value. Returns null if the array is empty.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n * \n * @SinceKotlin("1.3")\n * @ExperimentalStdlibApi\n * \npublic inline fun <S, T : S> Array<out
T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\n  var index = lastIndex\n  if (index < 0) return null\n
var accumulator: S = get(index--)\n  while (index >= 0) {\n    accumulator = operation(get(index--),
accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying
[operation] from right to left to each element and current accumulator value. Returns null if the array is empty.\n
*\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n * \n * @SinceKotlin("1.3")\n * @ExperimentalStdlibApi\n * \npublic inline fun ByteArray.reduceRightOrNull(operation:
(Byte, acc: Byte) -> Byte): Byte? {\n  var index = lastIndex\n  if (index < 0) return null\n  var accumulator =
get(index--)\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value. Returns null if the array is empty.\n * \n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n * \n * @SinceKotlin("1.3")\n * @ExperimentalStdlibApi\n * \npublic inline fun ShortArray.reduceRightOrNull(operation:
(Short, acc: Short) -> Short): Short? {\n  var index = lastIndex\n  if (index < 0) return null\n  var accumulator =
get(index--)\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return

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accumulator\n}\n\n/\*\*\n \* Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun IntArray.reduceRightOrNull(operation:
(Int, acc: Int) -> Int): Int? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun LongArray.reduceRightOrNull(operation:
(Long, acc: Long) -> Long): Long? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun FloatArray.reduceRightOrNull(operation:
(Float, acc: Float) -> Float): Float? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun DoubleArray.reduceRightOrNull(operation: (Double, acc: Double) -> Double): Double? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun BooleanArray.reduceRightOrNull(operation: (Boolean, acc: Boolean) -> Boolean): Boolean? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun CharArray.reduceRightOrNull(operation:
(Char, acc: Char) -> Char): Char? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <T, R> Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list

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Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value. Note that `acc` value passed to [operation] function should

not be mutated; otherwise it would affect the previous value in resulting list. @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value. @sample samples.collections.Collections.Aggregates.scan

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nDoubleArray.scan(initial: R, operation: (acc: R, Double) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n/**\n
```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value. Note that `acc` value passed to [operation]

function should not be mutated; otherwise it would affect the previous value in resulting list. @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value. @sample samples.collections.Collections.Aggregates.scan

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nBooleanArray.scan(initial: R, operation: (acc: R, Boolean) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n/**\n
```

\* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list. @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value. @sample samples.collections.Collections.Aggregates.scan

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nCharArray.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n/**\n
```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list. @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value. @sample samples.collections.Collections.Aggregates.scan

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <T, R> Array<out T>.scanIndexed(initial:\nR, operation: (index: Int, acc: R, T) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result =\n    ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return\n    result\n}\n/**\n
```

\* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each

element, its index in the original array and current accumulator value that starts with [initial] value. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list. @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value. @sample samples.collections.Collections.Aggregates.scan

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n    if (isEmpty()) return
```

```

listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for
(index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns
a list containing successive accumulation values generated by applying [operation] from left to right\n * to each
element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note
that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous
value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {\n    if (isEmpty()) return
listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for
(index in indices) {\n        accumulator = operation(index,
accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element,
its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc`
value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n *
and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
IntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n    if (isEmpty()) return
listOf(initial)\n    val result = ArrayList<R>(size + 1).apply
{ add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n        accumulator = operation(index,
accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element,
its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc`
value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n *
and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
LongArray.scanIndexed(initial: R, operation: (index: Int,
acc: R, Long) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply
{ add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n        accumulator = operation(index,
accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element,
its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc`
value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n *
and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic
inline fun <R> FloatArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n    if
(isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator =
initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and

```

current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator

value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>  
DoubleArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n    if (isEmpty())  
return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    result.add(accumulator)\n}\nreturn result\n}\n\n/**\n * Returns a list containing successive accumulation  
values generated by applying [operation] from left to right\n * to each element, its index in the original array and  
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function  
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
```

function that takes  
the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator  
value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>  
BooleanArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n    if (isEmpty())  
return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    result.add(accumulator)\n}\nreturn result\n}\n\n/**\n * Returns a list containing successive accumulation  
values generated by applying [operation] from left to right\n * to each element, its index in the original array and  
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function  
should not be
```

mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that  
takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next  
accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>  
CharArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n    if (isEmpty()) return  
listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for  
(index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying  
[operation] from left to right\n * to each element and current accumulator value that starts with the first element  
of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it  
would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator  
value and the element, and calculates the next accumulator value.\n * \n * @sample
```

samples.collections.Collections.Aggregates.scanReduce\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S> Array<out  
T>.scanReduce(operation: (acc: S, T) -> S): List<S> {\n    if (isEmpty()) return emptyList()\n    var accumulator: S  
= this[0]\n    val result = ArrayList<S>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts
```

with the first element of this array.\n \* \n \* @param [operation] function that takes current accumulator value and  
an element, and calculates the next accumulator value.\n \* \n \* @sample

samples.collections.Collections.Aggregates.scanReduce\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun  
ByteArray.scanReduce(operation: (acc: Byte, Byte) -> Byte): List<Byte> {\n    if (isEmpty()) return emptyList()\n
```

```

var accumulator = this[0]\n    val result = ArrayList<Byte>(size).apply { add(accumulator) }\n    for (index in 1 until
size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return
result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from
left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n *
@param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scanReduce\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.scanReduce(operation: (acc: Short, Short) -> Short): List<Short> {\n    if (isEmpty()) return
emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Short>(size).apply { add(accumulator) }\n    for
(index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n
    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with the first element of
this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.scanReduce(operation: (acc: Int, Int) -> Int): List<Int> {\n    if (isEmpty()) return emptyList()\n    var
accumulator = this[0]\n    val result = ArrayList<Int>(size).apply { add(accumulator) }\n    for (index in 1 until size)
{\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return
result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from
left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n *
@param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
inline fun LongArray.scanReduce(operation: (acc: Long, Long) -> Long): List<Long> {\n    if (isEmpty()) return
emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Long>(size).apply { add(accumulator) }\n    for
(index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n
    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with the first element of
this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.scanReduce(operation: (acc: Float, Float) -> Float): List<Float> {\n    if (isEmpty())
return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Float>(size).apply { add(accumulator)
}\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n
    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scanReduce\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.scanReduce(operation: (acc: Double, Double) -> Double): List<Double> {\n    if (isEmpty()) return
emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Double>(size).apply
{ add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n
result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample

```

samples.collections.Collections.Aggregates.scanReduce

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun  
BooleanArray.scanReduce(operation: (acc: Boolean, Boolean) -> Boolean): List<Boolean> {\n    if (isEmpty())  
return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Boolean>(size).apply {\n    add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator,  
this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive  
accumulation values generated by applying [operation] from left to right\n * to each element and current  
accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes  
current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample  
samples.collections.Collections.Aggregates.scanReduce
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun  
CharArray.scanReduce(operation: (acc: Char, Char) -> Char): List<Char> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Char>(size).apply { add(accumulator) }\n    for (index in 1 until  
size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return  
result\n}\n\n/**\n * Returns
```

a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each  
element, its index in the original array and current accumulator value that starts with the first element of this array.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the  
previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current  
accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample

samples.collections.Collections.Aggregates.scanReduce

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S> Array<out  
T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n    if (isEmpty()) return emptyList()\n    var accumulator: S = this[0]\n    val result = ArrayList<S>(size).apply { add(accumulator) }\n    for (index in 1 until  
size) {\n        accumulator = operation(index,  
accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list  
containing successive accumulation values generated by applying [operation] from left to right\n * to each element,  
its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element  
itself, and calculates the next accumulator value.\n * \n * @sample
```

samples.collections.Collections.Aggregates.scanReduce

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun  
ByteArray.scanReduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): List<Byte> {\n    if (isEmpty())  
return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Byte>(size).apply { add(accumulator)  
}\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator,  
this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive  
accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original  
array and current accumulator value that starts with the first element of this array.\n * \n * @param [operation]  
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the  
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun  
ShortArray.scanReduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): List<Short> {\n    if (isEmpty())  
return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Short>(size).apply { add(accumulator)  
}\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator,  
this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive  
accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original  
array and current accumulator value that starts with the first element of this array.\n * \n * @param [operation]  
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
```

```

next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.scanReduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): List<Int> {\n  if (isEmpty()) return
emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Int>(size).apply { add(accumulator) }\n  for
(index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.scanReduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): List<Long> {\n  if (isEmpty())
return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Long>(size).apply { add(accumulator)
}\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element,
current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.scanReduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): List<Float> {\n  if (isEmpty())
return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Float>(size).apply { add(accumulator)
}\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element,
current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.scanReduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): List<Double> {\n  if
(isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Double>(size).apply {
add(accumulator) }\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element,
current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.scanReduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): List<Boolean> {\n
if (isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Boolean>(size).apply {
add(accumulator) }\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element,

```

current accumulator value and the element itself, and calculates the next accumulator value.

```
public inline fun  
CharArray.scanReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {  
    if (isEmpty())  
        return emptyList()  
    var accumulator = this[0]  
    val result = ArrayList<Char>(size).apply { add(accumulator) }  
    for (index in 1 until size) {  
        accumulator = operation(index, accumulator, this[index])  
        result.add(accumulator)  
    }  
    return result  
}
```

```
public inline fun <T> Array<out T>.sumBy(selector: (T) -> Int): Int {  
    var sum: Int = 0  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum  
}
```

Returns the sum of all values produced by [selector] function applied to each element in the array.

```
public inline fun ByteArray.sumBy(selector: (Byte) -> Int): Int {  
    var sum: Int = 0  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum  
}
```

Returns the sum of all values produced by [selector] function applied to each element in the array.

```
public inline fun ShortArray.sumBy(selector: (Short) -> Int): Int {  
    var sum: Int = 0  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum  
}
```

Returns the sum of all values produced by [selector] function applied to each element in the array.

```
public inline fun IntArray.sumBy(selector: (Int) -> Int): Int {  
    var sum: Int = 0  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum  
}
```

Returns the sum of all values produced by [selector] function applied to each element in the array.

```
public inline fun LongArray.sumBy(selector: (Long) -> Int): Int {  
    var sum: Int = 0  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum  
}
```

Returns the sum of all values produced by [selector] function applied to each element in the array.

```
public inline fun FloatArray.sumBy(selector: (Float) -> Int): Int {  
    var sum: Int = 0  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum  
}
```

Returns the sum of all values produced by [selector] function applied to each element in the array.

```
public inline fun DoubleArray.sumBy(selector: (Double) -> Int): Int {  
    var sum: Int = 0  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum  
}
```

Returns the sum of all values produced by [selector] function applied to each element in the array.

```
public inline fun BooleanArray.sumBy(selector: (Boolean) -> Int): Int {  
    var sum: Int = 0  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum  
}
```

Returns the sum of all values produced by [selector] function applied to each element in the array.

```
public inline fun CharArray.sumBy(selector: (Char) -> Int): Int {  
    var sum: Int = 0  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum  
}
```

Returns the sum of all values produced by [selector] function applied to each element in the array.

```
<T> Array<out T>.sumByDouble(selector: (T) -> Double): Double {  
    var sum: Double = 0.0  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum  
}
```

Returns the sum of all values produced by [selector] function applied to each element in the array.

```
public inline fun ByteArray.sumByDouble(selector: (Byte) -> Double): Double {  
    var sum: Double = 0.0  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum  
}
```

Returns the sum of all values produced by [selector] function applied to each element in the array.

```
public inline fun ShortArray.sumByDouble(selector: (Short) -> Double): Double {  
    var sum: Double = 0.0  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum  
}
```

Returns the sum of all values produced by [selector] function applied to each element in the array.

```
public inline fun IntArray.sumByDouble(selector: (Int) -> Double): Double {  
    var sum: Double = 0.0  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum  
}
```

Returns the sum of all values produced by [selector] function applied to each element in the array.

```
public inline fun LongArray.sumByDouble(selector: (Long) -> Double): Double {  
    var sum: Double = 0.0  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum  
}
```

Returns the sum of all values produced by [selector] function applied to each element in the array.

```
public inline fun FloatArray.sumByDouble(selector: (Float) -> Double): Double {  
    var sum: Double = 0.0  
    for (element in this) {  
        sum += selector(element)  
    }  
    return sum  
}
```

Returns the sum of all values produced by [selector] function applied to each element in the array.

```

the sum of all values produced by [selector] function applied to each element in the array.\n *\npublic inline fun
DoubleArray.sumByDouble(selector: (Double) -> Double): Double {\n  var sum: Double = 0.0\n  for (element in
this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n *\npublic
inline fun BooleanArray.sumByDouble(selector: (Boolean) -> Double): Double {\n  var sum: Double = 0.0\n  for
(element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n *\npublic inline fun
CharArray.sumByDouble(selector: (Char) -> Double): Double {\n  var sum: Double = 0.0\n  for (element in this)
{\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns an original collection containing all the
non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n *\npublic fun <T :
Any> Array<T?>.requireNonNulls(): Array<T> {\n  for (element in this) {\n    if (element == null) {\n
throw IllegalArgumentException("`null element found in $this.`")\n    }\n  }\n  @Suppress("\n\n/**\n * Splits the original array into pair
of
lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains
elements for which [predicate] yielded `false`.\n *\npublic inline fun <T> Array<out T>.partition(predicate: (T) ->
Boolean): Pair<List<T>, List<T>> {\n  val first = ArrayList<T>()\n  val second = ArrayList<T>()\n  for
(element in this) {\n    if (predicate(element)) {\n      first.add(element)\n    } else {\n
second.add(element)\n    }\n  }\n  return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of
lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains
elements for which [predicate] yielded `false`.\n *\npublic inline fun ByteArray.partition(predicate: (Byte) ->
Boolean): Pair<List<Byte>, List<Byte>> {\n  val first = ArrayList<Byte>()\n  val second = ArrayList<Byte>()\n
for (element in this) {\n  if (predicate(element)) {\n
    first.add(element)\n  } else {\n    second.add(element)\n  }\n}\n  return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n
*\npublic inline fun ShortArray.partition(predicate: (Short) -> Boolean): Pair<List<Short>, List<Short>> {\n  val
first = ArrayList<Short>()\n  val second = ArrayList<Short>()\n  for (element in this) {\n    if
(predicate(element)) {\n      first.add(element)\n    } else {\n      second.add(element)\n    }\n  }\n
return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains
elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate]
yielded `false`.\n *\npublic inline fun IntArray.partition(predicate:
(Int) -> Boolean): Pair<List<Int>, List<Int>> {\n  val first = ArrayList<Int>()\n  val second = ArrayList<Int>()\n
for (element in this) {\n  if (predicate(element)) {\n
    first.add(element)\n  } else {\n    second.add(element)\n  }\n}\n  return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of
lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains
elements for which [predicate] yielded `false`.\n *\npublic inline fun LongArray.partition(predicate: (Long) ->
Boolean): Pair<List<Long>, List<Long>> {\n  val first = ArrayList<Long>()\n  val second =
ArrayList<Long>()\n  for (element in this) {\n    if (predicate(element)) {\n      first.add(element)\n    } else
{\n      second.add(element)\n    }\n  }\n  return Pair(first, second)\n}\n\n/**\n * Splits the original array into
pair of lists,\n * where *first* list contains
elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate]
yielded `false`.\n *\npublic inline fun FloatArray.partition(predicate: (Float) -> Boolean): Pair<List<Float>,
List<Float>> {\n  val first = ArrayList<Float>()\n  val second = ArrayList<Float>()\n  for (element in this) {\n
if (predicate(element)) {\n      first.add(element)\n    } else {\n      second.add(element)\n    }\n  }\n
return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains
elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate]
yielded `false`.\n *\npublic inline fun DoubleArray.partition(predicate: (Double) -> Boolean): Pair<List<Double>,

```

```

List<Double>> {\n  val first = ArrayList<Double>()\n  val second = ArrayList<Double>()\n  for (element in
this) {\n    if (predicate(element)) {\n      first.add(element)\n    } else {\n      second.add(element)\n    }\n  }\n  return Pair(first, second)\n}\n\n/**\n * Splits the
original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while
*second* list contains elements for which [predicate] yielded `false`.\n */\n\npublic inline fun
BooleanArray.partition(predicate: (Boolean) -> Boolean): Pair<List<Boolean>, List<Boolean>> {\n  val first =
ArrayList<Boolean>()\n  val second = ArrayList<Boolean>()\n  for (element in this) {\n    if
(predicate(element)) {\n      first.add(element)\n    } else {\n      second.add(element)\n    }\n  }\n
return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains
elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate]
yielded `false`.\n */\n\npublic inline fun CharArray.partition(predicate:
(Char) -> Boolean): Pair<List<Char>, List<Char>> {\n  val first = ArrayList<Char>()\n  val second =
ArrayList<Char>()\n  for (element in this) {\n    if (predicate(element)) {\n      first.add(element)\n    } else
{\n      second.add(element)\n    }\n  }\n  return Pair(first, second)\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n\npublic infix fun <T,
R> Array<out T>.zip(other: Array<out R>): List<Pair<T, R>> {\n  return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\n\npublic infix fun <T, R> ByteArray.zip(other:
Array<out R>): List<Pair<Byte, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n\npublic infix fun
<T, R> ShortArray.zip(other: Array<out R>): List<Pair<Short, R>> {\n  return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\n\npublic infix fun <T, R> IntArray.zip(other: Array<out R>):
List<Pair<Int, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` array and the [other] array with the same index.\n * The returned list has
length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n\npublic
infix fun <T, R> LongArray.zip(other: Array<out R>): List<Pair<Long, R>> {\n  return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\n\npublic infix fun <T, R> FloatArray.zip(other: Array<out
R>): List<Pair<Float, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n\npublic infix fun <T,
R> DoubleArray.zip(other: Array<out R>): List<Pair<Double, R>> {\n  return zip(other) { t1, t2 ->
t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the
same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\n\npublic infix fun <T, R> BooleanArray.zip(other: Array<out
R>): List<Pair<Boolean, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n\npublic infix fun <T,
R> CharArray.zip(other: Array<out R>): List<Pair<Char, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n *
Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list

```

```

has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n * \npublic inline fun <T, R, V> Array<out
T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {\n  val size = minOf(size, other.size)\n  val
list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n  }\n  return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same
index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length
of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\npublic inline fun <R, V> ByteArray.zip(other: Array<out R>, transform: (a: Byte, b: R) -> V): List<V> {\n  val
size = minOf(size, other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n
list.add(transform(this[i],
other[i]))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the
[other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n *
The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n * \npublic inline fun <R, V>
ShortArray.zip(other: Array<out R>, transform: (a: Short, b: R) -> V): List<V> {\n  val size = minOf(size,
other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n
}\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n\n
*\npublic inline fun <R, V> IntArray.zip(other: Array<out R>, transform: (a: Int, b: R) -> V): List<V> {\n  val
size = minOf(size, other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n
list.add(transform(this[i], other[i]))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements
of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each
pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n * \npublic inline fun <R, V>
LongArray.zip(other: Array<out R>, transform: (a: Long, b: R) -> V): List<V> {\n  val size = minOf(size,
other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n
}\n  return list\n}\n\n/**\n * Returns a list of values built from the elements
of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each
pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n * \npublic inline fun <R, V>
FloatArray.zip(other: Array<out R>, transform: (a: Float, b: R) -> V): List<V> {\n  val size = minOf(size,
other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n
}\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n * \npublic inline fun <R, V>
DoubleArray.zip(other: Array<out R>, transform: (a:
Double, b: R) -> V): List<V> {\n  val size = minOf(size, other.size)\n  val list = ArrayList<V>(size)\n  for (i in
0 until size) {\n    list.add(transform(this[i], other[i]))\n  }\n  return list\n}\n\n/**\n * Returns a list of values
built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform]
function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n *
@sample samples.collections.Iterables.Operations.zipIterableWithTransform\n * \npublic inline fun <R, V>
BooleanArray.zip(other: Array<out R>, transform: (a: Boolean, b: R) -> V): List<V> {\n  val size = minOf(size,
other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n
}\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform]

```

```

function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n *
@sample samples.collections.Iterables.Operations.zipIterableWithTransform\n * \npublic inline fun <R, V>
CharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
}\n    return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with
the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n * \npublic infix fun <T, R> Array<out T>.zip(other:
Iterable<R>): List<Pair<T, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` collection and [other] array with the same index.\n * The returned
list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\npublic infix fun <R> ByteArray.zip(other: Iterable<R>): List<Pair<Byte, R>> {\n    return zip(other) { t1, t2 ->
t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the
same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n * \npublic infix fun <R> ShortArray.zip(other: Iterable<R>):
List<Pair<Short, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n * \npublic infix fun <R>
IntArray.zip(other: Iterable<R>): List<Pair<Int, R>> {\n    return zip(other) { t1, t2 ->
t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the
same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n * \npublic infix fun <R> LongArray.zip(other: Iterable<R>):
List<Pair<Long, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n * \npublic infix fun <R>
FloatArray.zip(other: Iterable<R>): List<Pair<Float, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n *
Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\npublic infix fun <R> DoubleArray.zip(other: Iterable<R>): List<Pair<Double, R>> {\n    return zip(other) { t1,
t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with
the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n * \npublic infix fun <R> BooleanArray.zip(other:
Iterable<R>): List<Pair<Boolean, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has
length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n * \npublic
infix fun <R> CharArray.zip(other: Iterable<R>): List<Pair<Char, R>> {\n    return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of values built from the elements
of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to
each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n * \npublic inline fun <T, R, V> Array<out
T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n    val arraySize = size\n    val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n
if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\npublic inline fun <R, V> ByteArray.zip(other: Iterable<R>, transform: (a: Byte, b: R) -> V): List<V> {\n    val
arraySize = size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n

```

```

for (element in other) {\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n } \n return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the
same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has
length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V>
ShortArray.zip(other: Iterable<R>, transform: (a: Short, b: R) -> V): List<V> {\n    val arraySize = size\n    val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n
if
(i >= arraySize) break\n    list.add(transform(this[i++], element))\n } \n return list\n}\n\n/**\n * Returns a list
of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V>
IntArray.zip(other: Iterable<R>, transform: (a: Int, b: R) -> V): List<V> {\n    val arraySize = size\n    val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n
if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n } \n return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each
pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V>
LongArray.zip(other: Iterable<R>, transform: (a: Long, b: R) -> V): List<V> {\n    val arraySize = size\n    val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n
if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n } \n return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline
fun <R, V> FloatArray.zip(other: Iterable<R>, transform: (a: Float, b: R) -> V): List<V> {\n    val
arraySize = size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n
for (element in other) {\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n } \n return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the
same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has
length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V>
DoubleArray.zip(other: Iterable<R>, transform: (a: Double, b: R) -> V): List<V> {\n    val arraySize = size\n    val
list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other)
{\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n } \n return list\n}\n\n/**\n *
Returns a list
of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline
fun <R, V> BooleanArray.zip(other: Iterable<R>, transform: (a: Boolean, b: R) -> V): List<V> {\n    val arraySize =
size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element
in other) {\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n } \n return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the
same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has
length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\npublic inline fun <R, V> CharArray.zip(other: Iterable<R>, transform: (a: Char, b: R) -> V): List<V> {\n    val
arraySize = size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n

```

```

for (element in other) {\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n } \n return
list}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun ByteArray.zip(other: ByteArray):
List<Pair<Byte, Byte>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun ShortArray.zip(other: ShortArray): List<Pair<Short, Short>> {\n    return zip(other) { t1, t2 ->
t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the
same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun IntArray.zip(other: IntArray):
List<Pair<Int, Int>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun
LongArray.zip(other: LongArray): List<Pair<Long, Long>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this`
array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n *
@sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun FloatArray.zip(other:
FloatArray): List<Pair<Float, Float>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun
DoubleArray.zip(other: DoubleArray): List<Pair<Double, Double>> {\n    return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun BooleanArray.zip(other:
BooleanArray): List<Pair<Boolean, Boolean>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a
list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has
length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic
infix fun CharArray.zip(other: CharArray): List<Pair<Char, Char>> {\n    return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same
index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length
of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> ByteArray.zip(other: ByteArray, transform: (a: Byte, b: Byte) -> V): List<V> {\n    val
size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for
(i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list}\n\n/**\n * Returns a list of
values built from the elements of `this` array and the [other] array with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n *
@sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V>
ShortArray.zip(other: ShortArray, transform: (a: Short, b: Short) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i],
other[i]))\n    }\n    return list}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> IntArray.zip(other: IntArray, transform: (a: Int, b: Int) -> V): List<V> {\n    val size =
minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i],
other[i]))\n    }\n    return list}\n\n/**\n * Returns a list of values built from the elements of `this` array and the
[other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n *

```

The returned list has length of the shortest array.

```

@sample
samples.collections.Iterables.Operations.zipIterableWithTransform
public inline fun <V>
LongArray.zip(other: LongArray, transform: (a: Long, b: Long) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

Returns a list of values built from the elements of `this` array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest array.

```

@sample
samples.collections.Iterables.Operations.zipIterableWithTransform
public inline fun <V>
FloatArray.zip(other: FloatArray, transform: (a: Float, b: Float) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

Returns a list of values built from the elements of `this` array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest array.

```

@sample
samples.collections.Iterables.Operations.zipIterableWithTransform
public inline fun <V>
DoubleArray.zip(other: DoubleArray, transform:
(a: Double, b: Double) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

Returns a list of values built from the elements of `this` array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest array.

```

@sample
samples.collections.Iterables.Operations.zipIterableWithTransform
public inline fun <V>
BooleanArray.zip(other: BooleanArray, transform: (a: Boolean, b: Boolean) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

Returns a list of values built from the elements of `this` array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest array.

```

@sample
samples.collections.Iterables.Operations.zipIterableWithTransform
public inline fun <V>
CharArray.zip(other: CharArray, transform: (a: Char, b: Char) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").

```

@sample
samples.collections.Collections.Transformations.joinTo
public fun
<T, A : Appendable> Array<out T>.joinTo(buffer: A, separator: CharSequence
= "\", \"\", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\"),
transform: ((T) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
        if (limit < 0 || count <= limit) {
            buffer.appendElement(element, transform)
        } else break
    }
    if (limit >= 0 && count > limit)
        buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

```

Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").

```

@sample
samples.collections.Collections.Transformations.joinTo
public fun
<A : Appendable>
ByteArray.joinTo(buffer: A, separator: CharSequence = "\", \"\", prefix: CharSequence = \"\", postfix: CharSequence
= \"\", limit: Int = -1, truncated: CharSequence = \"...\"), transform: ((Byte) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit)
        buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

```

Appends the string from all the

elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n \* \n \* If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n \* elements will be appended, followed

by the [truncated] string (which defaults to \"...\").\n \* \n \* @sample

```
samples.collections.Collections.Transformations.joinTo\n *\npublic fun <A : Appendable>
```

```
ShortArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\\\", postfix: CharSequence = \"\\\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Short) -> CharSequence)? = null): A {\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count > 1) buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            if (transform != null)\n                buffer.append(transform(element))\n            else\n                buffer.append(element.toString())\n        } else break\n    }\n    if (limit >= 0 && count > limit)\n        buffer.append(truncated)\n    buffer.append(postfix)\n    return buffer\n}\n\n/**\n * Appends the string from all the
```

elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n \* \n \* If

the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n \* elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n \* \n \* @sample

```
samples.collections.Collections.Transformations.joinTo\n *\npublic fun <A : Appendable> IntArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\\\", postfix: CharSequence = \"\\\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Int) -> CharSequence)? = null): A {\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count > 1) buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            if (transform != null)\n                buffer.append(transform(element))\n            else\n                buffer.append(element.toString())\n        } else break\n    }\n    if (limit >= 0 && count > limit)\n        buffer.append(truncated)\n    buffer.append(postfix)\n    return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if
```

supplied.\n \* \n \* If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n \* elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n \* \n \* @sample

```
@sample samples.collections.Collections.Transformations.joinTo\n *\npublic fun <A : Appendable>
```

```
LongArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\\\", postfix: CharSequence = \"\\\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Long) -> CharSequence)? = null): A {\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count > 1) buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            if (transform != null)\n                buffer.append(transform(element))\n            else\n                buffer.append(element.toString())\n        }\n    }\n    if (limit >= 0 && count > limit)\n        buffer.append(truncated)\n    buffer.append(postfix)\n    return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
```

[prefix] and [postfix] if supplied.\n \* \n \* If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n \* elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n \* \n \* @sample

samples.collections.Collections.Transformations.joinTo\n \*\npublic fun <A :

```
Appendable> FloatArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\\\", postfix: CharSequence = \"\\\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Float) -> CharSequence)? = null): A {\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count > 1)\n            buffer.append(separator)\n        if (limit <
```

```
0 || count <= limit) {\n            if (transform != null)\n                buffer.append(transform(element))\n            else\n                buffer.append(element.toString())\n        } else break\n    }\n    if (limit >= 0 && count > limit)\n        buffer.append(truncated)\n    buffer.append(postfix)\n    return buffer\n}\n\n/**\n * Appends the string from all the
```

elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n \* \n \* If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n \* elements will

be appended, followed by the [truncated] string (which defaults to \"...\").\n \* \n \* @sample

```
samples.collections.Collections.Transformations.joinTo\n *\npublic fun <A : Appendable>
```

```
DoubleArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\\\", postfix:
```

```
CharSequence = \"\\\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Double) -> CharSequence)?
```

```

= null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit)
        buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

Appendable * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").

@sample samples.collections.Collections.Transformations.joinTo
public fun <A : Appendable> BooleanArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix: CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...", transform: ((Boolean) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit)
        buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

Appendable * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").

@sample samples.collections.Collections.Transformations.joinTo
public fun <A : Appendable> CharArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix: CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...", transform: ((Char) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element)
        } else break
    }
    if (limit >= 0 && count > limit)
        buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

Appendable * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").

@sample samples.collections.Collections.Transformations.joinToString
public fun <T> Array<out T>.joinToString(separator: CharSequence = "\", \", prefix: CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

Appendable * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").

@sample samples.collections.Collections.Transformations.joinToString
public fun ByteArray.joinToString(separator: CharSequence = "\", \", prefix: CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...", transform: ((Byte) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

Appendable * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").

@sample samples.collections.Collections.Transformations.joinToString
public fun ShortArray.joinToString(separator: CharSequence = "\", \", prefix: CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...", transform: ((Short) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

Appendable * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
If the collection could be huge, you can specify a non-negative value

```



```

}
}

 * Creates an [Iterable] instance that wraps the original array returning its elements when being
iterated.
 * public fun ShortArray.asIterable(): Iterable<Short> {
    if (isEmpty()) return emptyList()
    return
Iterable { this.iterator() }
}

 * Creates an [Iterable] instance that wraps the original array returning its
elements when being iterated.
 * public fun IntArray.asIterable(): Iterable<Int> {
    if (isEmpty()) return
emptyList()
    return Iterable { this.iterator() }
}

 * Creates an [Iterable] instance that wraps the original
array returning its elements when being iterated.
 * public
fun LongArray.asIterable(): Iterable<Long> {
    if (isEmpty()) return emptyList()
    return Iterable {
this.iterator() }
}

 * Creates an [Iterable] instance that wraps the original array returning its elements when
being iterated.
 * public fun FloatArray.asIterable(): Iterable<Float> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

 * Creates an [Iterable] instance that wraps the original array returning
its elements when being iterated.
 * public fun DoubleArray.asIterable(): Iterable<Double> {
    if (isEmpty())
return emptyList()
    return Iterable { this.iterator() }
}

 * Creates an [Iterable] instance that wraps the
original array returning its elements when being iterated.
 * public fun BooleanArray.asIterable():
Iterable<Boolean> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

 * Creates
an [Iterable] instance that wraps the original array returning its
elements when being iterated.
 * public fun CharArray.asIterable(): Iterable<Char> {
    if (isEmpty()) return
emptyList()
    return Iterable { this.iterator() }
}

 * Creates a [Sequence] instance that wraps the original
array returning its elements when being iterated.
 * @sample
samples.collections.Sequences.Building.sequenceFromArray
 * public fun <T> Array<out T>.asSequence():
Sequence<T> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

 * Creates a [Sequence] instance that wraps the original array returning its
elements when being iterated.
 * @sample
samples.collections.Sequences.Building.sequenceFromArray
 * public fun ByteArray.asSequence():
Sequence<Byte> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

 * Creates a [Sequence] instance that wraps the original array returning its
elements when being iterated.
 * @sample
samples.collections.Sequences.Building.sequenceFromArray
 * public fun ShortArray.asSequence(): Sequence<Short> {
    if (isEmpty()) return emptySequence()
    return
Sequence { this.iterator() }
}

 * Creates a [Sequence] instance that wraps the original array returning its
elements when being iterated.
 * @sample
samples.collections.Sequences.Building.sequenceFromArray
 * public fun IntArray.asSequence(): Sequence<Int> {
    if (isEmpty()) return emptySequence()
    return
Sequence { this.iterator() }
}

 * Creates a [Sequence] instance that wraps the original array returning its
elements when being iterated.
 * @sample
samples.collections.Sequences.Building.sequenceFromArray
 * public fun LongArray.asSequence(): Sequence<Long> {
    if (isEmpty()) return emptySequence()
    return
Sequence { this.iterator() }
}

 * Creates a [Sequence] instance that wraps the original array returning its
elements when being iterated.
 * @sample
samples.collections.Sequences.Building.sequenceFromArray
 * public fun FloatArray.asSequence(): Sequence<Float> {
    if (isEmpty()) return emptySequence()
    return
Sequence { this.iterator() }
}

 * Creates a [Sequence] instance that wraps the original array returning its
elements when being iterated.
 * @sample
samples.collections.Sequences.Building.sequenceFromArray
 * public fun DoubleArray.asSequence(): Sequence<Double> {
    if (isEmpty()) return emptySequence()
    return
Sequence { this.iterator() }
}

 * Creates a [Sequence] instance that wraps the original array returning
its elements when being iterated.
 * @sample
samples.collections.Sequences.Building.sequenceFromArray
 * public fun BooleanArray.asSequence(): Sequence<Boolean> {
    if (isEmpty()) return emptySequence()
    return
Sequence { this.iterator() }
}

 * Creates a [Sequence] instance that wraps the original array returning
its elements when being iterated.
 * @sample
samples.collections.Sequences.Building.sequenceFromArray
 * public fun CharArray.asSequence(): Sequence<Char> {
    if (isEmpty()) return emptySequence()
    return
Sequence { this.iterator() }
}

 * Returns an average value of elements in the array.
 * @kotlin.jvm.JvmName("averageOfByte")
 * public fun Array<out Byte>.average(): Double {
    var sum:
Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return
if (count == 0) Double.NaN else sum / count
}

 * Returns an average value of elements in the array.

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*^@kotlin.jvm.JvmName("averageOfShort")\npublic fun Array<out Short>.average(): Double {\n  var sum:
Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*^@kotlin.jvm.JvmName("averageOfInt")\npublic fun Array<out
Int>.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum +=
element\n    ++count\n  }\n  return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an
average value of elements in the array.\n
*^@kotlin.jvm.JvmName("averageOfLong")\npublic fun Array<out
Long>.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum +=
element\n    ++count\n  }\n  return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an
average value of elements in the array.\n
*^@kotlin.jvm.JvmName("averageOfFloat")\npublic fun Array<out
Float>.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum +=
element\n    ++count\n  }\n  return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an
average value of elements in the array.\n
*^@kotlin.jvm.JvmName("averageOfDouble")\npublic
fun Array<out Double>.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in
this) {\n    sum += element\n    ++count\n  }\n  return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*^public fun ByteArray.average(): Double
{\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n
  }\n  return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the
array.\n
*^public fun ShortArray.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for
(element in this) {\n    sum += element\n    ++count\n  }\n  return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*^public fun IntArray.average(): Double
{\n  var sum: Double = 0.0\n  var count: Int
= 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return if (count == 0) Double.NaN
else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*^public fun LongArray.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n
sum += element\n    ++count\n  }\n  return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the array.\n
*^public fun FloatArray.average(): Double {\n  var sum: Double =
0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return if (count
== 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*^public
fun DoubleArray.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n
sum += element\n    ++count\n  }\n  return if (count == 0)
Double.NaN else sum / count\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*^@kotlin.jvm.JvmName("sumOfByte")\npublic fun Array<out Byte>.sum(): Int {\n  var sum: Int = 0\n  for
(element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all elements in the
array.\n
*^@kotlin.jvm.JvmName("sumOfShort")\npublic fun Array<out Short>.sum(): Int {\n  var sum: Int =
0\n  for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all
elements in the array.\n
*^@kotlin.jvm.JvmName("sumOfInt")\npublic fun Array<out Int>.sum(): Int {\n  var
sum: Int = 0\n  for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/**\n * Returns the sum of
all elements in the array.\n
*^@kotlin.jvm.JvmName("sumOfLong")\npublic fun Array<out Long>.sum(): Long
{\n  var sum: Long = 0L\n  for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/**\n * Returns
the sum of all elements in the array.\n
*^@kotlin.jvm.JvmName("sumOfFloat")\npublic fun Array<out
Float>.sum(): Float {\n  var sum: Float = 0.0f\n  for (element in this) {\n    sum += element\n  }\n  return
sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*^@kotlin.jvm.JvmName("sumOfDouble")\npublic fun Array<out Double>.sum(): Double {\n  var sum:
Double = 0.0\n  for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/**\n * Returns the sum of
all elements in the array.\n
*^public fun ByteArray.sum(): Int {\n  var sum: Int = 0\n  for (element in this) {\n    sum += element\n  }\n
return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*^public fun ShortArray.sum(): Int {\n  var sum: Int = 0\n  for (element in this) {\n    sum += element\n  }\n
return

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sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun IntArray.sum(): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun LongArray.sum(): Long {\n    var sum: Long = 0L\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun FloatArray.sum(): Float {\n    var sum: Float = 0.0f\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun DoubleArray.sum(): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("RangesKt")\n\npackage kotlin.ranges\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns a random element from this range.\n */\n@throws IllegalArgumentException if this range is empty.\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun IntRange.random(): Int {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n */\n@throws IllegalArgumentException if this range is empty.\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun LongRange.random(): Long {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n */\n@throws IllegalArgumentException if this range is empty.\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun CharRange.random(): Char {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n */\n@throws IllegalArgumentException if this range is empty.\n\n@SinceKotlin("1.3")\npublic fun IntRange.random(random: Random): Int {\n    try {\n        return random.nextInt(this)\n    } catch (e: IllegalArgumentException) {\n        throw NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n */\n@throws IllegalArgumentException if this range is empty.\n\n@SinceKotlin("1.3")\npublic fun LongRange.random(random: Random): Long {\n    try {\n        return random.nextLong(this)\n    } catch (e: IllegalArgumentException) {\n        throw NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n */\n@throws IllegalArgumentException if this range is empty.\n\n@SinceKotlin("1.3")\npublic fun CharRange.random(random: Random): Char {\n    try {\n        return random.nextInt(first.toInt(), last.toInt() + 1).toChar()\n    } catch (e: IllegalArgumentException) {\n        throw NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun IntRange.randomOrNull(): Int? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun LongRange.randomOrNull(): Long? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun CharRange.randomOrNull(): Char? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun IntRange.randomOrNull(random: Random): Int? {\n    if (isEmpty())\n        return null\n    return random.nextInt(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun LongRange.randomOrNull(random: Random): Long? {\n    if (isEmpty())\n        return null\n    return random.nextLong(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n */

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun CharRange.randomOrNull(random: Random):
Char? {\n if (isEmpty())\n return null\n return random.nextInt(first.toInt(), last.toInt() +
1).toChar()\n}\n\n**\n * Returns `true` if this range contains the specified [element].\n *
\n * Always returns `false` if the [element] is `null`.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun IntRange.contains(element:
Int?): Boolean {\n return element != null && contains(element)\n}\n\n**\n * Returns `true` if this range contains
the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun LongRange.contains(element:
Long?): Boolean {\n return element != null && contains(element)\n}\n\n**\n * Returns `true` if this range
contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun CharRange.contains(element:
Char?): Boolean {\n return element != null && contains(element)\n}\n\n**\n * Checks if the specified [value]
belongs to this range.\n *\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator
fun ClosedRange<Int>.contains(value: Byte): Boolean {\n return contains(value.toInt())\n}\n\n**\n * Checks if
the specified [value] belongs to this range.\n *\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator
fun ClosedRange<Long>.contains(value: Byte): Boolean {\n return contains(value.toLong())\n}\n\n**\n * Checks
if the specified [value] belongs to this range.\n *\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator
fun ClosedRange<Short>.contains(value: Byte): Boolean {\n return contains(value.toShort())\n}\n\n**\n *
Checks if the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun
ClosedRange<Double>.contains(value: Byte): Boolean {\n return contains(value.toDouble())\n}\n\n**\n *
Checks if the specified [value] belongs to this range.\n *\n@Deprecated("This
`contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be
removed.")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun
ClosedRange<Float>.contains(value: Byte): Boolean {\n return contains(value.toFloat())\n}\n\n**\n * Checks if
the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer and
floating point arguments has ambiguous semantics and is going to be
removed.")\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun ClosedRange<Int>.contains(value:
Double): Boolean {\n return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n**\n *
Checks if the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.")\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun
ClosedRange<Long>.contains(value:
Double): Boolean {\n return value.toLongExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n**\n *
Checks if the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.")\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun
ClosedRange<Byte>.contains(value: Double): Boolean {\n return value.toByteExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n**\n * Checks if the specified [value] belongs to this range.\n
*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.")\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun
ClosedRange<Short>.contains(value: Double): Boolean {\n return value.toShortExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n**\n * Checks if the specified
[value] belongs to this range.\n *\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun
ClosedRange<Float>.contains(value: Double): Boolean {\n return contains(value.toFloat())\n}\n\n**\n * Checks
if the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer and
floating point arguments has ambiguous semantics and is going to be

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removed.\")\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun ClosedRange<Int>.contains(value:
Float): Boolean {\n    return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n */\n@Deprecated("This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.\")\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun
ClosedRange<Long>.contains(value: Float): Boolean {\n    return value.toLongExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.\")\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun
ClosedRange<Byte>.contains(value: Float): Boolean {\n    return value.toByteExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.\")\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun
ClosedRange<Short>.contains(value: Float): Boolean {\n    return value.toShortExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator
fun ClosedRange<Double>.contains(value: Float): Boolean {\n    return contains(value.toDouble())\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName("longRangeContains")\npublic
operator fun ClosedRange<Long>.contains(value: Int): Boolean {\n    return contains(value.toLong())\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName("byteRangeContains")\npublic
operator fun ClosedRange<Byte>.contains(value: Int): Boolean {\n    return value.toByteExactOrNull().let { if (it !=
null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun ClosedRange<Short>.contains(value: Int):
Boolean {\n    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n */\n@Deprecated("This `contains` operation mixing
integer and floating point arguments has ambiguous semantics and is going to be
removed.\")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun
ClosedRange<Double>.contains(value: Int): Boolean {\n    return contains(value.toDouble())\n}\n\n/**\n * Checks
if the specified [value] belongs to this range.\n */\n@Deprecated("This `contains` operation mixing integer and
floating point arguments has ambiguous semantics and is going to be
removed.\")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun
ClosedRange<Float>.contains(value: Int): Boolean {\n    return contains(value.toFloat())\n}\n\n/**\n * Checks if the
specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun
ClosedRange<Int>.contains(value: Long): Boolean {\n    return value.toIntExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@kotlin.jvm.JvmName("byteRangeContains")\npublic
operator fun ClosedRange<Byte>.contains(value: Long): Boolean {\n    return value.toByteExactOrNull().let { if (it
!= null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun ClosedRange<Short>.contains(value:
Long): Boolean {\n    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n */\n@Deprecated("This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.\")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun
ClosedRange<Double>.contains(value: Long): Boolean {\n    return contains(value.toDouble())\n}\n\n/**\n * Checks
if the specified [value] belongs to this range.\n */\n@Deprecated("This `contains` operation mixing integer
and floating point arguments has ambiguous semantics
and is going to be removed.\")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun
ClosedRange<Float>.contains(value: Long): Boolean {\n    return contains(value.toFloat())\n}\n\n/**\n * Checks if

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the specified [value] belongs to this range.\n \*/\n@kotlin.jvm.JvmName("\intRangeContains")\npublic operator fun ClosedRange<Int>.contains(value: Short): Boolean {\n return contains(value.toInt())\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*/\n@kotlin.jvm.JvmName("\longRangeContains")\npublic operator fun ClosedRange<Long>.contains(value: Short): Boolean {\n return contains(value.toLong())\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*/\n@kotlin.jvm.JvmName("\byteRangeContains")\npublic operator fun ClosedRange<Byte>.contains(value: Short): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*/\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@kotlin.jvm.JvmName("\doubleRangeContains")\npublic operator fun ClosedRange<Double>.contains(value: Short): Boolean {\n return contains(value.toDouble())\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*/\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@kotlin.jvm.JvmName("\floatRangeContains")\npublic operator fun ClosedRange<Float>.contains(value: Short): Boolean {\n return contains(value.toFloat())\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Int.downTo(to: Byte): IntProgression {\n return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Long.downTo(to: Byte): LongProgression {\n return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Byte.downTo(to: Byte): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Short.downTo(to: Byte): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Char.downTo(to: Char): CharProgression {\n return CharProgression.fromClosedRange(this, to, -1)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Int.downTo(to: Int): IntProgression {\n return IntProgression.fromClosedRange(this, to, -1)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Long.downTo(to: Int): LongProgression {\n return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Byte.downTo(to: Int): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Short.downTo(to: Int): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* The [to] value should be less than or equal to `this` value.\n \* If the [to]

value is greater than `this` value the returned progression is empty.

```

public infix fun Int.downTo(to: Long):
LongProgression {
    return LongProgression.fromClosedRange(this.toLong(), to, -1L)
}

```

\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

```

public infix fun Long.downTo(to: Long): LongProgression {
    return LongProgression.fromClosedRange(this,
to, -1L)
}

```

\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

```

public infix fun Byte.downTo(to: Long):
LongProgression {
    return LongProgression.fromClosedRange(this.toLong(), to, -1L)
}

```

\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

```

public infix fun Short.downTo(to: Long): LongProgression {
    return
LongProgression.fromClosedRange(this.toLong(), to, -1L)
}

```

\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

```

public infix fun Int.downTo(to:
Short): IntProgression {
    return IntProgression.fromClosedRange(this, to.toInt(), -1)
}

```

\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

```

public infix fun Long.downTo(to: Short): LongProgression {
    return LongProgression.fromClosedRange(this,
to.toLong(), -1L)
}

```

\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

```

public infix fun Byte.downTo(to: Short): IntProgression {
    return
IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}

```

\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

```

public infix fun Short.downTo(to: Short): IntProgression {
    return
IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}

```

\* Returns a progression that goes over the same range in the opposite direction with the same step.

```

public fun IntProgression.reversed(): IntProgression
{
    return IntProgression.fromClosedRange(last, first, -step)
}

```

\* Returns a progression that goes over the same range in the opposite direction with the same step.

```

public fun LongProgression.reversed():
LongProgression {
    return LongProgression.fromClosedRange(last, first, -step)
}

```

\* Returns a progression that goes over the same range in the opposite direction with the same step.

```

public fun CharProgression.reversed(): CharProgression {
    return CharProgression.fromClosedRange(last, first, -
step)
}

```

\* Returns a progression that goes over the same range with the given step.

```

public infix fun
IntProgression.step(step: Int): IntProgression {
    checkStepIsPositive(step > 0, step)
    return
IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)
}

```

\* Returns a progression that goes over the same range with the given step.

```

public infix fun LongProgression.step(step: Long):
LongProgression {
    checkStepIsPositive(step > 0, step)
    return LongProgression.fromClosedRange(first, last,
if (this.step > 0) step else -step)
}

```

\* Returns a progression that goes over the same range with the given step.

```

public infix fun CharProgression.step(step: Int): CharProgression {
    checkStepIsPositive(step > 0,
step)
    return CharProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)
}

```

internal fun Int.toByteExactOrNull(): Byte? { return if (this in Byte.MIN\_VALUE.toInt()..Byte.MAX\_VALUE.toInt()) this.toByte() else null }

internal fun Long.toByteExactOrNull(): Byte? { return if (this in Byte.MIN\_VALUE.toLong()..Byte.MAX\_VALUE.toLong()) this.toByte() else null }

internal fun Short.toByteExactOrNull(): Byte? { return if (this in Byte.MIN\_VALUE.toShort()..Byte.MAX\_VALUE.toShort()) this.toByte() else null }

internal fun Double.toByteExactOrNull(): Byte? { return if (this in

```

Byte.MIN_VALUE.toDouble()..Byte.MAX_VALUE.toDouble()) this.toByte() else null\n}\n\ninternal fun
Float.toByteExactOrNull(): Byte? {\n    return if (this in
Byte.MIN_VALUE.toFloat()..Byte.MAX_VALUE.toFloat()) this.toByte() else null\n}\n\ninternal fun
Long.toIntExactOrNull(): Int? {\n    return if (this in Int.MIN_VALUE.toLong()..Int.MAX_VALUE.toLong())
this.toInt() else null\n}\n\ninternal fun Double.toIntExactOrNull(): Int? {\n    return if (this in
Int.MIN_VALUE.toDouble()..Int.MAX_VALUE.toDouble()) this.toInt() else null\n}\n\ninternal fun
Float.toIntExactOrNull(): Int? {\n    return
if (this in Int.MIN_VALUE.toFloat()..Int.MAX_VALUE.toFloat()) this.toInt() else null\n}\n\ninternal fun
Double.toLongExactOrNull(): Long? {\n    return if (this in
Long.MIN_VALUE.toDouble()..Long.MAX_VALUE.toDouble()) this.toLong() else null\n}\n\ninternal fun
Float.toLongExactOrNull(): Long? {\n    return if (this in
Long.MIN_VALUE.toFloat()..Long.MAX_VALUE.toFloat()) this.toLong() else null\n}\n\ninternal fun
Int.toShortExactOrNull(): Short? {\n    return if (this in Short.MIN_VALUE.toInt()..Short.MAX_VALUE.toInt())
this.toShort() else null\n}\n\ninternal fun Long.toShortExactOrNull(): Short? {\n    return if (this in
Short.MIN_VALUE.toLong()..Short.MAX_VALUE.toLong()) this.toShort() else null\n}\n\ninternal fun
Double.toShortExactOrNull(): Short? {\n    return if (this in
Short.MIN_VALUE.toDouble()..Short.MAX_VALUE.toDouble()) this.toShort() else null\n}\n\ninternal fun
Float.toShortExactOrNull(): Short? {\n    return if (this in
Short.MIN_VALUE.toFloat()..Short.MAX_VALUE.toFloat())
this.toShort() else null\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n
* \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun
Int.until(to: Byte): IntRange {\n    return this .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value
up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the
returned range is empty.\n */\npublic infix fun Long.until(to: Byte): LongRange {\n    return this .. (to.toLong() -
1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the
[to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to:
Byte): IntRange {\n    return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to
but excluding the specified [to]
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic
infix fun Short.until(to: Byte): IntRange {\n    return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a
range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to
`this` value, then the returned range is empty.\n */\npublic infix fun Char.until(to: Char): CharRange {\n    if (to <=
'\u0000') return CharRange.EMPTY\n    return this .. (to - 1).toChar()\n}\n\n/**\n * Returns a range from this value
up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the
returned range is empty.\n */\npublic infix fun Int.until(to: Int): IntRange {\n    if (to <= Int.MIN_VALUE) return
IntRange.EMPTY\n    return this .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding
the specified [to] value.\n * \n * If the
[to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to:
Int): LongRange {\n    return this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to
but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned
range is empty.\n */\npublic infix fun Byte.until(to: Int): IntRange {\n    if (to <= Int.MIN_VALUE) return
IntRange.EMPTY\n    return this.toInt() .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but
excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned
range is empty.\n */\npublic infix fun Short.until(to: Int): IntRange {\n    if (to <= Int.MIN_VALUE) return
IntRange.EMPTY\n    return this.toInt() .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but
excluding the specified [to] value.\n * \n * If the [to] value is less
than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Long): LongRange
{\n    if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n    return this.toLong() .. (to -

```

```

1).toLong()\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the
[to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to:
Long): LongRange {\n    if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n    return this .. (to -
1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the
[to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to:
Long): LongRange {\n    if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n    return this.toLong() .. (to -
1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to]
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic
infix fun Short.until(to: Long): LongRange {\n    if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n    return this.toLong() .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the
specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Short): IntRange {\n    return this .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a
range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to
`this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Short): LongRange {\n    return
this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to]
value.\n * \n * If the [to] value is less than or equal to
`this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Short): IntRange {\n    return
this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified
[to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic
infix fun Short.until(to: Short): IntRange {\n    return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Ensures that
this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to
the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastComparable\n */\npublic fun <T : Comparable<T>>
T.coerceAtLeast(minimumValue: T): T {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater
than
or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Byte.coerceAtLeast(minimumValue: Byte):
Byte {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less
than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue]
or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Short.coerceAtLeast(minimumValue: Short): Short {\n    return if (this < minimumValue)
minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n *
@return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n *
@sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Int.coerceAtLeast(minimumValue:
Int): Int {\n    return if (this < minimumValue)
minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n *
@return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n *
@sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun
Long.coerceAtLeast(minimumValue: Long): Long {\n    return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value
if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Float.coerceAtLeast(minimumValue: Float):
Float {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less
than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue]
or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun
Double.coerceAtLeast(minimumValue: Double): Double {\n    return if (this < minimumValue) minimumValue else

```

```

this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostComparable\n *\npublic fun <T : Comparable<T>>
T.coerceAtMost(maximumValue: T): T {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n
* Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less
than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n *\npublic fun Byte.coerceAtMost(maximumValue: Byte):
Byte {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n
* Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less
than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n *\npublic fun Short.coerceAtMost(maximumValue: Short):
Short {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n
* Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less
than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n *\npublic fun Int.coerceAtMost(maximumValue: Int): Int
{\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n
* Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less
than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n *\npublic fun Long.coerceAtMost(maximumValue: Long): Long {\n
    return if (this > maximumValue)
maximumValue else this\n}\n\n/**\n
* Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less
than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n *
@sample samples.comparisons.ComparableOps.coerceAtMost\n *\npublic fun
Float.coerceAtMost(maximumValue: Float): Float {\n    return if (this > maximumValue) maximumValue else
this\n}\n\n/**\n
* Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n *\npublic fun Double.coerceAtMost(maximumValue:
Double): Double {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n
* Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n
* \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or
[maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInComparable\n *\npublic fun <T : Comparable<T>>
T.coerceIn(minimumValue: T?, maximumValue: T?): T {\n    if (minimumValue !== null && maximumValue !==
null) {\n        if (minimumValue > maximumValue) throw IllegalArgumentException("\u201cCannot coerce value to an
empty range: maximum $maximumValue is less than minimum $minimumValue.\u201c")\n        if (this <
minimumValue) return minimumValue\n        if (this > maximumValue) return maximumValue\n    }\n    else {\n
if (minimumValue !== null && this < minimumValue) return minimumValue\n        if (maximumValue !== null
&& this > maximumValue) return maximumValue\n    }\n    return this\n}\n\n/**\n
* Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n
* \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or
[maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Byte.coerceIn(minimumValue: Byte,
maximumValue: Byte): Byte {\n    if (minimumValue > maximumValue) throw
IllegalArgumentException("\u201cCannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.\u201c")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n
* Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Short.coerceIn(minimumValue: Short,

```



```

@return this value if it's in the [range], or `range.start` if this value is less
than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.
@sample samples.comparisons.ComparableOps.coerceIn
public fun Int.coerceIn(range: ClosedRange<Int>): Int {
    if (range is ClosedFloatingPointRange)
        return this.coerceIn<Int>(range)
    if (range.isEmpty()) throw
        IllegalArgumentException("Cannot coerce value to an empty range: $range.")
    return when {
        this < range.start -> range.start
        this > range.endInclusive -> range.endInclusive
        else -> this
    }
}
Ensures that this value lies in the specified [range].
@return this value if it's in the [range], or `range.start` if
this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.
@sample samples.comparisons.ComparableOps.coerceIn
public fun Long.coerceIn(range:
ClosedRange<Long>): Long {
    if (range is ClosedFloatingPointRange) {
        return this.coerceIn<Long>(range)
    }
    if (range.isEmpty()) throw IllegalArgumentException("Cannot
coerce value to an empty range: $range.")
    return when {
        this < range.start -> range.start
        this >
range.endInclusive -> range.endInclusive
        else -> this
    }
}
}
/*
 * Copyright 2010-2019 JetBrains
s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.
 */
// Auto-generated file. DO NOT
EDIT!
package kotlin
import
kotlin.experimental.*
@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline class UByte @PublishedApi internal
constructor(@PublishedApi internal val data: Byte) : Comparable<UByte> {
    companion object {
        /**
         * A constant holding the minimum value an instance of UByte can have.
         */
        public
const val MIN_VALUE: UByte = UByte(0)
        /**
         * A constant holding the maximum value an
instance of UByte can have.
         */
        public const val MAX_VALUE: UByte = UByte(-1)
        /**
         * The number of bytes used to represent an instance of UByte in a binary form.
         */
        public const val
SIZE_BYTES: Int = 1
        /**
         * The number of bits used to represent an instance of UByte in a binary
form.
         */
        public const val SIZE_BITS: Int = 8
    }
    /**
     * Compares this value with the
specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,
     * or a positive number if it's greater than other.
     */
    @kotlin.internal.InlineOnly
    @Suppress("OVERRIDE_BY_INLINE")
    public override inline operator fun compareTo(other: UByte): Int =
this.compareTo(other.toInt())
    /**
     * Compares
this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a
negative number if it's less than other,
     * or a positive number if it's greater than other.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: UShort): Int =
this.compareTo(other.toInt())
    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a
negative number if it's less than other,
     * or a
positive number if it's greater than other.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun
compareTo(other: UInt): Int = this.toUInt().compareTo(other)
    /**
     * Compares this value with the
specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,
     * or a positive number if it's greater than other.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: ULong): Int =
this.toULong().compareTo(other)
    /**
     * Adds the other value to this value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())
    /**
     * Adds the other value
to this value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UShort): UInt =
this.toUInt().plus(other.toUInt())
    /**
     * Adds the other value to this value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)
    /**
     * Adds the other value to this
value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: ULong): ULong =
this.toULong().plus(other)
    /**
     * Subtracts the other value from this value.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())
}

```

```

/** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun
minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())
/** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UInt): UInt =
this.toUInt().minus(other)
/** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun times(other: UByte): UInt
= this.toUInt().times(other.toUInt())
/** Multiplies this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun times(other: UShort): UInt =
this.toUInt().times(other.toUInt())
/** Multiplies this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)
/** Multiplies this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun times(other: ULong): ULong =
this.toULong().times(other)
/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())
/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UShort): UInt =
this.toUInt().div(other.toUInt())
/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)
/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: ULong): ULong =
this.toULong().div(other)
/** Calculates the remainder of dividing
this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UByte):
UInt = this.toUInt().rem(other.toUInt())
/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UShort): UInt =
this.toUInt().rem(other.toUInt())
/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)
/**
Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public
inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)
/** Increments this value. */
@kotlin.internal.InlineOnly
public inline operator fun inc(): UByte = UByte(data.inc())
/** Decrements this
value. */
@kotlin.internal.InlineOnly
public inline operator fun dec():
UByte = UByte(data.dec())
/** Creates a range from this value to the specified [other] value. */
@kotlin.internal.InlineOnly
public inline operator fun rangeTo(other: UByte): UIntRange =
UIntRange(this.toUInt(), other.toUInt())
/** Performs a bitwise AND operation between the two values. */
@kotlin.internal.InlineOnly
public inline infix fun and(other: UByte): UByte = UByte(this.data and other.data)
/** Performs a bitwise OR operation between the two values. */
@kotlin.internal.InlineOnly
public inline
infix fun or(other: UByte): UByte = UByte(this.data or other.data)
/** Performs a bitwise XOR operation
between the two values. */
@kotlin.internal.InlineOnly
public inline infix fun xor(other: UByte): UByte =
UByte(this.data xor other.data)
/** Inverts the bits in this value. */
@kotlin.internal.InlineOnly
public
inline fun inv(): UByte = UByte(data.inv())
/**
* Converts this [UByte] value to
[Byte].
* If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value
represents
* the same numerical value as this `UByte`. Otherwise the result is negative.
* The
* resulting `Byte` value has the same binary representation as this `UByte` value.
*/
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data
/**
* Converts this [UByte] value to
[Short].
* The resulting `Short` value represents the same numerical value as this `UByte`.
* The
* least significant 8 bits of the resulting `Short` value are the same as the bits of this `UByte` value,
*
* whereas the most significant 8 bits are filled with zeros.
*/
@kotlin.internal.InlineOnly
public inline fun
toShort(): Short = data.toShort() and 0xFF
/**
* Converts this [UByte] value to [Int].
* The
* resulting `Int` value represents the same numerical value as this `UByte`.
*
* The
* least significant 8 bits of the resulting `Int` value are the same as the bits of this `UByte` value,
*
* whereas the most significant 24 bits are filled with zeros.
*/
@kotlin.internal.InlineOnly
public inline

```

```

fun toInt(): Int = data.toInt() and 0xFF\n /**\n * Converts this [UByte] value to [Long].\n *\n * The
resulting `Long` value represents the same numerical value as this `UByte`.\n *\n * The least significant 8 bits
of the resulting `Long` value are the same as the bits of this `UByte` value,\n * whereas the most significant 56
bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toLong(): Long =
data.toLong() and 0xFF\n /** Returns this value. *\n @kotlin.internal.InlineOnly\n public inline fun
toUByte(): UByte = this\n /**\n * Converts this [UByte] value to [UShort].\n *\n * The resulting `UShort`
value represents the same numerical value as this `UByte`.\n
*\n * The least significant 8 bits of the resulting `UShort` value are the same as the bits of this `UByte`
value,\n * whereas the most significant 8 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n
public inline fun toUShort(): UShort = UShort(data.toShort() and 0xFF)\n /**\n * Converts this [UByte] value
to [UInt].\n *\n * The resulting `UInt` value represents the same numerical value as this `UByte`.\n *\n *
The least significant 8 bits of the resulting `UInt` value are the same as the bits of this `UByte` value,\n *
whereas the most significant 24 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun
toUInt(): UInt = UInt(data.toInt() and 0xFF)\n /**\n * Converts this [UByte] value to [ULong].\n *\n * The
resulting `ULong` value represents the same numerical value as this `UByte`.\n *\n * The least significant 8
bits of the resulting `ULong` value are
the same as the bits of this `UByte` value,\n * whereas the most significant 56 bits are filled with zeros.\n
*/\n @kotlin.internal.InlineOnly\n public inline fun toULong(): ULong = ULong(data.toLong() and 0xFF)\n /**\n
* Converts this [UByte] value to [Float].\n *\n * The resulting `Float` value represents the same numerical
value as this `UByte`.\n */\n @kotlin.internal.InlineOnly\n public inline fun toFloat(): Float =
this.toInt().toFloat()\n /**\n * Converts this [UByte] value to [Double].\n *\n * The resulting `Double`
value represents the same numerical value as this `UByte`.\n */\n @kotlin.internal.InlineOnly\n public inline
fun toDouble(): Double = this.toInt().toDouble()\n\n public override fun toString(): String =
toInt().toString()\n}\n\n/**\n * Converts this [Byte] value to [UByte].\n *\n * If this value is positive, the resulting
`UByte` value represents the same numerical value as this `Byte`.\n *\n
* The resulting `UByte` value has the same binary representation as this `Byte` value.\n
*/\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
Byte.toUByte(): UByte = UByte(this)\n /**\n * Converts this [Short] value to [UByte].\n *\n * If this value is
positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same
numerical value as this `Short`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits of
this `Short` value.\n
*/\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
Short.toUByte(): UByte = UByte(this.toByte())\n /**\n * Converts this [Int] value to [UByte].\n *\n * If this value is
positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same
numerical value as this `Int`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits of this
`Int`
value.\n */\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline
fun Int.toUByte(): UByte = UByte(this.toByte())\n /**\n * Converts this [Long] value to [UByte].\n *\n * If this
value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the
same numerical value as this `Long`.\n *\n * The resulting `UByte` value is represented by the least significant 8
bits of this `Long` value.\n
*/\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
Long.toUByte(): UByte = UByte(this.toByte())\n", /*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n @n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport
kotlin.experimental.*\n\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n\n@SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n public

```

```

inline class UInt @PublishedApi internal constructor(@PublishedApi internal val data: Int) : Comparable<UInt>
{
    companion object {
        /** A constant holding the minimum value an instance of UInt can have.
         * A constant holding the maximum value an instance of UInt can have.
         * The number of bytes used to represent an instance of UInt in a binary form.
         * The number of bits used to represent an instance of UInt in a binary form.
         * Compares this value with the specified value for order.
         * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
         * or a positive number if it's greater than other.
         */
        @kotlin.internal.InlineOnly public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toUInt())
        /** Compares this value with the specified value for order.
         * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
         * or a positive number if it's greater than other.
         */
        @kotlin.internal.InlineOnly public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toUInt())
        /** Compares this value with the specified value for order.
         * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
         * or a positive number if it's greater than other.
         */
        @kotlin.internal.InlineOnly @Suppress("OVERRIDE_BY_INLINE") public override inline operator fun compareTo(other: UInt): Int = uintCompare(this.data, other.data)
        /** Compares this value with the specified value for order.
         * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
         * or a positive number if it's greater than other.
         */
        @kotlin.internal.InlineOnly public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)
        /** Adds the other value to this value.
         */
        @kotlin.internal.InlineOnly public inline operator fun plus(other: UByte): UInt = this.plus(other.toUInt())
        /** Adds the other value to this value.
         */
        @kotlin.internal.InlineOnly public inline operator fun plus(other: UShort): UInt = this.plus(other.toUInt())
        /** Adds the other value to this value.
         */
        @kotlin.internal.InlineOnly public inline operator fun plus(other: UInt): UInt = UInt(this.data.plus(other.data))
        /** Adds the other value to this value.
         */
        @kotlin.internal.InlineOnly public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)
        /** Subtracts the other value from this value.
         */
        @kotlin.internal.InlineOnly public inline operator fun minus(other: UByte): UInt = this.minus(other.toUInt())
        /** Subtracts the other value from this value.
         */
        @kotlin.internal.InlineOnly public inline operator fun minus(other: UShort): UInt = this.minus(other.toUInt())
        /** Subtracts the other value from this value.
         */
        @kotlin.internal.InlineOnly public inline operator fun minus(other: UInt): UInt = UInt(this.data.minus(other.data))
        /** Subtracts the other value from this value.
         */
        @kotlin.internal.InlineOnly public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)
        /** Multiplies this value by the other value.
         */
        @kotlin.internal.InlineOnly public inline operator fun times(other: UByte): UInt = this.times(other.toUInt())
        /** Multiplies this value by the other value.
         */
        @kotlin.internal.InlineOnly public inline operator fun times(other: UShort): UInt = this.times(other.toUInt())
        /** Multiplies this value by the other value.
         */
        @kotlin.internal.InlineOnly public inline operator fun times(other: UInt): UInt = UInt(this.data.times(other.data))
        /** Multiplies this value by the other value.
         */
        @kotlin.internal.InlineOnly public inline operator fun times(other: ULong): ULong = this.toULong().times(other)
        /** Divides this value by the other value.
         */
        @kotlin.internal.InlineOnly public inline operator fun div(other: UByte): UInt = this.div(other.toUInt())
        /** Divides this value by the other value.
         */
        @kotlin.internal.InlineOnly public inline operator fun div(other: UShort): UInt = this.div(other.toUInt())
        /** Divides this value by the other value.
         */
        @kotlin.internal.InlineOnly public inline operator fun div(other: UInt): UInt = uintDivide(this, other)
        /** Divides this value by the other value.
         */
        @kotlin.internal.InlineOnly public inline operator fun div(other: ULong): ULong = this.toULong().div(other)
        /** Calculates the remainder of dividing this value by the other value.
         */
        @kotlin.internal.InlineOnly public inline operator fun rem(other:

```

```

UByte): UInt = this.rem(other.toUInt())\n /** Calculates the remainder of dividing this value by the other value.
*\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): UInt =
this.rem(other.toUInt())\n /** Calculates the remainder of dividing this value by the other value. *\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt = uintRemainder(this, other)\n
/** Calculates the remainder of dividing this value by the other value. *\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n /** Increments
this value. *\n @kotlin.internal.InlineOnly\n public inline operator fun inc(): UInt = UInt(data.inc())\n /**
Decrements this value. *\n @kotlin.internal.InlineOnly\n public inline operator fun dec(): UInt =
UInt(data.dec())\n\n /** Creates a range from this value to the specified [other] value. *\n
@kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: UInt): UIntRange = UIntRange(this,
other)\n\n /** Shifts this value left by the [bitCount] number of bits. *\n @kotlin.internal.InlineOnly\n public
inline infix fun shl(bitCount: Int): UInt = UInt(data shl bitCount)\n /** Shifts this value right by the [bitCount]
number of bits, filling the leftmost bits with zeros. *\n @kotlin.internal.InlineOnly\n public inline infix fun
shr(bitCount: Int): UInt = UInt(data ushr bitCount)\n /** Performs a bitwise AND operation between the two
values. *\n @kotlin.internal.InlineOnly\n public inline infix fun and(other:
UInt): UInt = UInt(this.data and other.data)\n /** Performs a bitwise OR operation between the two values. *\n
@kotlin.internal.InlineOnly\n public inline infix fun or(other: UInt): UInt = UInt(this.data or other.data)\n /**
Performs a bitwise XOR operation between the two values. *\n @kotlin.internal.InlineOnly\n public inline infix
fun xor(other: UInt): UInt = UInt(this.data xor other.data)\n /** Inverts the bits in this value. *\n
@kotlin.internal.InlineOnly\n public inline fun inv(): UInt = UInt(data.inv())\n\n /**\n * Converts this [UInt]
value to [Byte].\n *\n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value
represents\n * the same numerical value as this `UInt`.\n *\n * The resulting `Byte` value is represented by
the least significant 8 bits of this `UInt` value.\n * Note that the resulting `Byte` value may be negative.\n *\n
@kotlin.internal.InlineOnly\n public inline
fun toByte(): Byte = data.toByte()\n /**\n * Converts this [UInt] value to [Short].\n *\n * If this value is
less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n * the same numerical value
as this `UInt`.\n *\n * The resulting `Short` value is represented by the least significant 16 bits of this `UInt`
value.\n * Note that the resulting `Short` value may be negative.\n *\n @kotlin.internal.InlineOnly\n public
inline fun toShort(): Short = data.toShort()\n /**\n * Converts this [UInt] value to [Int].\n *\n * If this value
is less than or equals to [Int.MAX_VALUE], the resulting `Int` value represents\n * the same numerical value as
this `UInt`. Otherwise the result is negative.\n *\n * The resulting `Int` value has the same binary representation
as this `UInt` value.\n *\n @kotlin.internal.InlineOnly\n public inline fun toInt(): Int = data\n /**\n *
Converts this [UInt] value
to [Long].\n *\n * The resulting `Long` value represents the same numerical value as this `UInt`.\n *\n *
The least significant 32 bits of the resulting `Long` value are the same as the bits of this `UInt` value,\n *
whereas the most significant 32 bits are filled with zeros.\n *\n @kotlin.internal.InlineOnly\n public inline fun
toLong(): Long = data.toLong() and 0xFFFF_FFFF\n\n /**\n * Converts this [UInt] value to [UByte].\n *\n
* If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the
same numerical value as this `UInt`.\n *\n * The resulting `UByte` value is represented by the least significant
8 bits of this `UInt` value.\n *\n @kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte =
data.toUByte()\n /**\n * Converts this [UInt] value to [UShort].\n *\n * If this value is less than or equals
to [UShort.MAX_VALUE], the resulting `UShort`
value represents\n * the same numerical value as this `UInt`.\n *\n * The resulting `UShort` value is
represented by the least significant 16 bits of this `UInt` value.\n *\n @kotlin.internal.InlineOnly\n public
inline fun toUShort(): UShort = data.toUShort()\n /** Returns this value. *\n @kotlin.internal.InlineOnly\n
public inline fun toUInt(): UInt = this\n /**\n * Converts this [UInt] value to [ULong].\n *\n * The
resulting `ULong` value represents the same numerical value as this `UInt`.\n *\n * The least significant 32 bits
of the resulting `ULong` value are the same as the bits of this `UInt` value,\n * whereas the most significant 32

```

```

bits are filled with zeros.\n    *^n    @kotlin.internal.InlineOnly\n    public inline fun toULong(): ULong =
    ULong(data.toLong() and 0xFFFF_FFFF)\n    /**\n    * Converts this [UInt] value to [Float].\n    * The
    resulting value is the closest `Float` to this `UInt` value.\n
    * In case when this `UInt` value is exactly between two `Float`s,\n
    * the one with zero at least significant bit of
    mantissa is selected.\n    *^n    @kotlin.internal.InlineOnly\n    public inline fun toFloat(): Float =
    this.toDouble().toFloat()\n    /**\n    * Converts this [UInt] value to [Double].\n    * The resulting `Double`
    value represents the same numerical value as this `UInt`.\n
    *^n    @kotlin.internal.InlineOnly\n    public inline
    fun toDouble(): Double = uintToDouble(data)\n\n    public override fun toString(): String =
    toLong().toString()\n\n}\n\n/**\n * Converts this [Byte] value to [UInt].\n * If this value is positive, the resulting
    `UInt` value represents the same numerical value as this `Byte`.\n * The least significant 8 bits of the resulting
    `UInt` value are the same as the bits of this `Byte` value,\n * whereas the most significant 24 bits are filled with the
    sign bit of this value.\n
    *^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
    inline fun Byte.toUInt(): UInt = UInt(this.toInt())\n/**\n * Converts this [Short] value to [UInt].\n * If this value
    is positive, the resulting `UInt` value represents the same numerical value as this `Short`.\n * The least
    significant 16 bits of the resulting `UInt` value are the same as the bits of this `Short` value,\n * whereas the most
    significant 16 bits are filled with the sign bit of this value.\n
    *^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
    Short.toUInt(): UInt = UInt(this.toInt())\n/**\n * Converts this [Int] value to [UInt].\n * If this value is positive,
    the resulting `UInt` value represents the same numerical value as this `Int`.\n * The resulting `UInt` value has the
    same binary representation as this `Int` value.\n
    *^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
    Int.toUInt(): UInt = UInt(this)\n/**\n
    * Converts this [Long] value to [UInt].\n * If this value is positive and less than or equals to
    [UInt.MAX_VALUE], the resulting `UInt` value represents\n * the same numerical value as this `Long`.\n * The
    resulting `UInt` value is represented by the least significant 32 bits of this `Long` value.\n
    *^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
    Long.toUInt(): UInt = UInt(this.toInt())\n/**\n * Converts this [Float] value to [UInt].\n * The fractional part,
    if any, is rounded down towards zero.\n * Returns zero if this `Float` value is negative or `NaN`,
    [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.\n
    *^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
    Float.toUInt(): UInt = doubleToUInt(this.toDouble())\n/**\n * Converts this [Double] value to [UInt].\n * The
    fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is
    negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.\n
    *^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
    Double.toUInt(): UInt = doubleToUInt(this)\n", /*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
    Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
    found in the license/LICENSE.txt file.\n *^n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport
    kotlin.experimental.*\n\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@
    SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class UShort @PublishedApi internal
    constructor(@PublishedApi internal val data: Short) : Comparable<UShort> {\n\n    companion object {\n        /**\n
        * A constant holding the minimum value an instance of UShort can have.\n        *^n        public const val
        MIN_VALUE: UShort = UShort(0)\n\n        /**\n        * A constant holding
        the maximum value an instance of UShort can have.\n        *^n        public const val MAX_VALUE: UShort =
        UShort(-1)\n\n        /**\n        * The number of bytes used to represent an instance of UShort in a binary form.\n
        *^n        public const val SIZE_BYTES: Int = 2\n\n        /**\n        * The number of bits used to represent an
        instance of UShort in a binary form.\n        *^n        public const val SIZE_BITS: Int = 16\n    }\n\n    /**\n
    * Compares this value with the specified value for order.\n    * Returns zero if this value is equal to the specified other
    
```

```

value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UByte): Int =
this.toInt().compareTo(other.toInt())\n\n /**\n * Compares this value with the specified value for order.\n *
Returns zero if this value is equal to the specified other value,
a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n
@kotlin.internal.InlineOnly\n @Suppress("OVERRIDE_BY_INLINE")\n public override inline operator fun
compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())\n\n /**\n * Compares this value with the
specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n * or a positive number if it's greater than other.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)\n\n /**\n * Compares
this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a
negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun compareTo(other:
ULong): Int = this.toULong().compareTo(other)\n\n /** Adds the other value to this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): UInt =
this.toUInt().plus(other.toUInt())\n\n /** Adds the other value to this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\n\n /** Adds the other value
to this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): UInt =
this.toUInt().plus(other)\n\n /** Adds the other value to this value. */\n
@kotlin.internal.InlineOnly\n public
inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n /** Subtracts the other value from
this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UByte): UInt =
this.toUInt().minus(other.toUInt())\n\n /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n
public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())\n\n /** Subtracts the
other value from this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt):
UInt = this.toUInt().minus(other)\n\n /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: ULong): ULong =
this.toULong().minus(other)\n\n /** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toUInt())\n\n /** Multiplies this
value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): UInt
= this.toUInt().times(other.toUInt())\n\n /** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n\n
/** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun
times(other: ULong): ULong = this.toULong().times(other)\n\n /** Divides this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun div(other: UByte): UInt =
this.toUInt().div(other.toUInt())\n\n /** Divides this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n\n /** Divides this value by
the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): UInt =
this.toUInt().div(other)\n\n /** Divides this value by the other value. */\n
@kotlin.internal.InlineOnly\n public
inline operator fun div(other: ULong): ULong = this.toULong().div(other)\n\n /** Calculates the remainder of
dividing this value by the other value. */\n
@kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())\n\n /** Calculates the remainder of
dividing this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other:
UShort): UInt = this.toUInt().rem(other.toUInt())\n\n /** Calculates the remainder of dividing this value by the other
value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt =
this.toUInt().rem(other)\n\n /** Calculates the remainder of dividing this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong): ULong =
this.toULong().rem(other)\n\n /** Increments this value. */\n
@kotlin.internal.InlineOnly\n public inline

```

```

operator fun inc(): UShort = UShort(data.inc())\n  /** Decrements this value. */\n  @kotlin.internal.InlineOnly\npublic inline operator fun dec(): UShort = UShort(data.dec())\n  /** Creates a range from this value to\n  the specified [other] value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun rangeTo(other:\n  UShort): UIntRange = UIntRange(this.toUInt(), other.toUInt())\n  /** Performs a bitwise AND operation\n  between the two values. */\n  @kotlin.internal.InlineOnly\n  public inline infix fun and(other: UShort): UShort =\n  UShort(this.data and other.data)\n  /** Performs a bitwise OR operation between the two values. */\n  @kotlin.internal.InlineOnly\n  public inline infix fun or(other: UShort): UShort = UShort(this.data or other.data)\n  /** Performs a bitwise XOR operation between the two values. */\n  @kotlin.internal.InlineOnly\n  public inline\n  infix fun xor(other: UShort): UShort = UShort(this.data xor other.data)\n  /** Inverts the bits in this value. */\n  @kotlin.internal.InlineOnly\n  public inline fun inv(): UShort = UShort(data.inv())\n  /**\n   * Converts this\n  [UShort] value to [Byte].\n   *\n   * If this value is less than or equals\n  to [Byte.MAX_VALUE], the resulting `Byte` value represents\n   * the same numerical value as this `UShort`.\n   *\n   * The resulting `Byte` value is represented by the least significant 8 bits of this `UShort` value.\n   * Note\n  that the resulting `Byte` value may be negative.\n   */\n  @kotlin.internal.InlineOnly\n  public inline fun\n  toByte(): Byte = data.toByte()\n  /**\n   * Converts this [UShort] value to [Short].\n   *\n   * If this value is less\n  than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n   * the same numerical value as\n  this `UShort`. Otherwise the result is negative.\n   *\n   * The resulting `Short` value has the same binary\n  representation as this `UShort` value.\n   */\n  @kotlin.internal.InlineOnly\n  public inline fun toShort(): Short =\n  data\n  /**\n   * Converts this [UShort] value to [Int].\n   *\n   * The resulting `Int` value represents the same\n  numerical value as this `UShort`.\n   *\n   * The least significant 16 bits of the resulting `Int` value are the same as the bits of this `UShort` value,\n   * whereas the most significant 16 bits are filled with zeros.\n   */\n  @kotlin.internal.InlineOnly\n  public inline\n  fun toInt(): Int = data.toInt() and 0xFFFF\n  /**\n   * Converts this [UShort] value to [Long].\n   *\n   * The\n  resulting `Long` value represents the same numerical value as this `UShort`.\n   *\n   * The least significant 16\n  bits of the resulting `Long` value are the same as the bits of this `UShort` value,\n   * whereas the most significant\n  48 bits are filled with zeros.\n   */\n  @kotlin.internal.InlineOnly\n  public inline fun toLong(): Long =\n  data.toLong() and 0xFFFF\n  /**\n   * Converts this [UShort] value to [UByte].\n   *\n   * If this value is less\n  than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n   * the same numerical value as\n  this `UShort`.\n   *\n   * The resulting `UByte` value\n  is represented by the least significant 8 bits of this `UShort` value.\n   */\n  @kotlin.internal.InlineOnly\n  public\n  inline fun toUByte(): UByte = data.toUByte()\n  /** Returns this value. */\n  @kotlin.internal.InlineOnly\n  public inline fun toUShort(): UShort = this\n  /**\n   * Converts this [UShort] value to [UInt].\n   *\n   * The\n  resulting `UInt` value represents the same numerical value as this `UShort`.\n   *\n   * The least significant 16 bits\n  of the resulting `UInt` value are the same as the bits of this `UShort` value,\n   * whereas the most significant 16\n  bits are filled with zeros.\n   */\n  @kotlin.internal.InlineOnly\n  public inline fun toUInt(): UInt =\n  UInt(data.toInt() and 0xFFFF)\n  /**\n   * Converts this [UShort] value to [ULong].\n   *\n   * The resulting\n  `ULong` value represents the same numerical value as this `UShort`.\n   *\n   * The least significant 16 bits of the\n  resulting `ULong` value are the same as the bits\n  of this `UShort` value,\n   * whereas the most significant 48 bits are filled with zeros.\n   */\n  @kotlin.internal.InlineOnly\n  public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF)\n  /**\n   * Converts this [UShort] value to [Float].\n   *\n   * The resulting `Float` value represents the same\n  numerical value as this `UShort`.\n   */\n  @kotlin.internal.InlineOnly\n  public inline fun toFloat(): Float =\n  this.toInt().toFloat()\n  /**\n   * Converts this [UShort] value to [Double].\n   *\n   * The resulting `Double`\n  value represents the same numerical value as this `UShort`.\n   */\n  @kotlin.internal.InlineOnly\n  public inline\n  fun toDouble(): Double = this.toInt().toDouble()\n  public override fun toString(): String =\n  toInt().toString()\n  /**\n   * Converts this [Byte] value to [UShort].\n   *\n   * If this value is positive, the\n  resulting `UShort` value represents the same numerical value as this `Byte`.\n   *\n   * The least

```

significant 8 bits of the resulting `UShort` value are the same as the bits of this `Byte` value, whereas the most significant 8 bits are filled with the sign bit of this value.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
Byte.toUShort(): UShort = UShort(this.toShort())\n/**\n * Converts this [Short] value to [UShort].\n * If this value is positive, the resulting `UShort` value represents the same numerical value as this `Short`. The resulting `UShort` value has the same binary representation as this `Short` value.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
Short.toUShort(): UShort = UShort(this)\n/**\n * Converts this [Int] value to [UShort].\n * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents the same numerical value as this `Int`. The resulting `UShort` value is represented by the least significant 16 bits of this `Int` value.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
Int.toUShort(): UShort = UShort(this.toShort())\n/**\n * Converts this [Long] value to [UShort].\n * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents the same numerical value as this `Long`. The resulting `UShort` value is represented by the least significant 16 bits of this `Long` value.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
Long.toUShort(): UShort = UShort(this.toShort())\n"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin  
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be  
found in the license/LICENSE.txt file.\n *\n// Auto-generated file. DO NOT EDIT!\n\npackage  
kotlin.ranges\n/**\n * A range of values of
```

```
type `Char`. \n\npublic class CharRange(start: Char, endInclusive: Char) : CharProgression(start, endInclusive, 1),  
ClosedRange<Char> {\n    override val start: Char get() = first\n    override val endInclusive: Char get() = last\n    override fun contains(value: Char): Boolean = first <= value && value <= last\n    override fun isEmpty(): Boolean = first > last\n    override fun equals(other: Any?): Boolean =\n        other is CharRange && (isEmpty() && other.isEmpty()) ||\n        first == other.first && last == other.last\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * first.toInt() + last.toInt())\n    override fun toString(): String = "$first..$last"\n    companion object {\n        /** An empty range of values of type Char. */\n        public val EMPTY: CharRange =  
CharRange(1.toChar(), 0.toChar())\n    }\n}\n/**\n * A range of values of type `Int`. \n\npublic class
```

```
IntRange(start: Int, endInclusive: Int) : IntProgression(start, endInclusive,  
1), ClosedRange<Int> {\n    override val start: Int get() = first\n    override val endInclusive: Int get() = last\n    override fun contains(value: Int): Boolean = first <= value && value <= last\n    override fun isEmpty(): Boolean = first > last\n    override fun equals(other: Any?): Boolean =\n        other is IntRange && (isEmpty() && other.isEmpty()) ||\n        first == other.first && last == other.last\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * first + last)\n    override fun toString(): String = "$first..$last"\n    companion object {\n        /** An empty range of values of type Int. */\n        public val EMPTY: IntRange = IntRange(1, 0)\n    }\n}\n/**\n * A range of values of type `Long`. \n\npublic class LongRange(start: Long, endInclusive: Long) :
```

```
LongProgression(start, endInclusive, 1), ClosedRange<Long> {\n    override val start: Long get() = first\n    override val endInclusive: Long get() = last\n    override fun contains(value: Long): Boolean = first <= value && value <= last\n    override fun isEmpty(): Boolean = first > last\n    override fun equals(other: Any?): Boolean =\n        other is LongRange && (isEmpty() && other.isEmpty()) ||\n        first == other.first && last == other.last\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))).toInt()\n    override fun toString(): String = "$first..$last"\n    companion object {\n        /** An empty range of values of type Long. */\n        public val EMPTY: LongRange = LongRange(1, 0)\n    }\n}\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin  
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be  
found in the license/LICENSE.txt file.
```

```
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n@file:UseExperimental
```

```

kotlin.experimental.ExperimentalTypeInference::class)\n\npackage
kotlin.collections\n\nimport kotlin.contracts.*\n\ninternal object EmptyIterator : ListIterator<Nothing> {\n
override fun hasNext(): Boolean = false\n  override fun hasPrevious(): Boolean = false\n  override fun
nextIndex(): Int = 0\n  override fun previousIndex(): Int = -1\n  override fun next(): Nothing = throw
NoSuchElementException()\n  override fun previous(): Nothing = throw
NoSuchElementException()\n}\n\ninternal object EmptyList : List<Nothing>, Serializable, RandomAccess {\n
private const val serialVersionUID: Long = -7390468764508069838L\n\n  override fun equals(other: Any?):
Boolean = other is List<*> && other.isEmpty()\n  override fun hashCode(): Int = 1\n  override fun toString():
String = \"[]\"\n\n  override val size: Int get() = 0\n  override fun isEmpty(): Boolean = true\n  override fun
contains(element: Nothing): Boolean = false\n  override fun containsAll(elements: Collection<Nothing>): Boolean
= elements.isEmpty()\n\n  override fun get(index: Int): Nothing = throw IndexOutOfBoundsException(\"Empty list doesn't contain element
at index $index.\")\n  override fun indexOf(element: Nothing): Int = -1\n  override fun lastIndexOf(element:
Nothing): Int = -1\n\n  override fun iterator(): Iterator<Nothing> = EmptyIterator\n  override fun listIterator():
ListIterator<Nothing> = EmptyIterator\n  override fun listIterator(index: Int): ListIterator<Nothing> {\n    if
(index != 0) throw IndexOutOfBoundsException(\"Index: $index\")\n    return EmptyIterator\n  }\n\n  override
fun subList(fromIndex: Int, toIndex: Int): List<Nothing> {\n    if (fromIndex == 0 && toIndex == 0) return this\n    throw IndexOutOfBoundsException(\"fromIndex: $fromIndex, toIndex: $toIndex\")\n  }\n\n  private fun
readResolve(): Any = EmptyList\n}\n\ninternal fun <T> Array<out T>.asCollection(): Collection<T> =
ArrayAsCollection(this, isVarargs = false)\n\nprivate class ArrayAsCollection<T>(val
values: Array<out T>, val isVarargs: Boolean) : Collection<T> {\n  override val size: Int get() = values.size\n
override fun isEmpty(): Boolean = values.isEmpty()\n  override fun contains(element: T): Boolean =
values.contains(element)\n  override fun containsAll(elements: Collection<T>): Boolean = elements.all {
contains(it) }\n  override fun iterator(): Iterator<T> = values.iterator()\n  // override hidden toArray
implementation to prevent copying of values array\n  public fun toArray(): Array<out Any?> =
values.copyToArrayOfAny(isVarargs)\n}\n\n/**\n * Returns an empty read-only list. The returned list is
serializable (JVM).\n * @sample samples.collections.Collections.Lists.emptyReadOnlyList\n */\npublic fun <T>
emptyList(): List<T> = EmptyList\n\n/**\n * Returns a new read-only list of given elements. The returned list is
serializable (JVM).\n * @sample samples.collections.Collections.Lists.readOnlyList\n */\npublic fun <T>
listOf(vararg elements: T): List<T> =
if (elements.size > 0) elements.asList() else emptyList()\n\n/**\n * Returns an empty read-only list. The returned
list is serializable (JVM).\n * @sample samples.collections.Collections.Lists.emptyReadOnlyList\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> listOf(): List<T> = emptyList()\n\n/**\n * Returns an empty
new [MutableList].\n * @sample samples.collections.Collections.Lists.emptyMutableList\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> mutableListOf(): MutableList<T> =
ArrayList()\n\n/**\n * Returns an empty new [ArrayList].\n * @sample
samples.collections.Collections.Lists.emptyArrayList\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> arrayListOf(): ArrayList<T> =
ArrayList()\n\n/**\n * Returns a new [MutableList] with the given elements.\n * @sample
samples.collections.Collections.Lists.mutableList\n */\npublic fun <T> mutableListOf(vararg elements: T):
MutableList<T> =\n  if (elements.size == 0)\n    ArrayList()\n  else ArrayList(ArrayAsCollection(elements, isVarargs = true))\n\n/**\n * Returns a new [ArrayList]
with the given elements.\n * @sample samples.collections.Collections.Lists.arrayList\n */\npublic fun <T>
arrayListOf(vararg elements: T): ArrayList<T> =\n  if (elements.size == 0) ArrayList()\n  else
ArrayList(ArrayAsCollection(elements, isVarargs = true))\n\n/**\n * Returns a new read-only list either of single
given element, if it is not null, or empty list if the element is null. The returned list is serializable (JVM).\n *
@sample samples.collections.Collections.Lists.listOfNotNull\n */\npublic fun <T : Any> listOfNotNull(element:
T?): List<T> = if (element != null) listOf(element) else emptyList()\n\n/**\n * Returns a new read-only list only of

```

those given elements, that are not null. The returned list is serializable (JVM).\n \* @sample

```

samples.collections.Collections.Lists.listOfNotNull\n */\npublic fun <T : Any> listOfNotNull(vararg elements: T?):
List<T> = elements.filterNotNull()\n\n/**\n
  * Creates a new read-only list with the specified [size], where each element is calculated by calling the specified\n *
  [init] function.\n * The function [init] is called for each list element sequentially starting from the first one.\n * It
  should return the value for a list element given its index.\n * @sample
samples.collections.Collections.Lists.readOnlyListFromInitializer\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> List(size: Int, init: (index: Int) -> T):
List<T> = MutableList(size, init)\n\n/**\n
  * Creates a new mutable list with the specified [size], where each element
  is calculated by calling the specified\n * [init] function.\n * The function [init] is called for each list element
  sequentially starting from the first one.\n * It should return the value for a list element given its index.\n *
  @sample samples.collections.Collections.Lists.mutableListFromInitializer\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic
  inline fun <T> MutableList(size: Int, init: (index: Int) -> T): MutableList<T> {\n    val list = ArrayList<T>(size)\n
  repeat(size) { index -> list.add(init(index)) }\n    return list\n}\n\n/**\n
  * Builds a new read-only [List] by
  populating a [MutableList] using the given [builderAction]\n * and returning a read-only list with the same
  elements.\n * The list passed as a receiver to the [builderAction] is valid only inside that function.\n * Using it
  outside of the function produces an unspecified behavior.\n * @sample
samples.collections.Builders.Lists.buildListSample\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <E>
  buildList(@BuilderInference builderAction: MutableList<E>().-> Unit): List<E> {\n    contract {\n
  callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n    return
  ArrayList<E>().apply(builderAction)\n}\n\n/**\n
  * Builds a new read-only [List] by populating a [MutableList]
  using
  the given [builderAction]\n * and returning a read-only list with the same elements.\n * The list passed as a
  receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an
  unspecified behavior.\n * [capacity] is used to hint the expected number of elements added in the
  [builderAction].\n * @throws IllegalArgumentException if the given [capacity] is negative.\n * @sample
samples.collections.Builders.Lists.buildListSample\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <E>
  buildList(capacity: Int, @BuilderInference builderAction: MutableList<E>().-> Unit): List<E> {\n    contract {\n
  callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n    checkBuilderCapacity(capacity)\n    return
  ArrayList<E>(capacity).apply(builderAction)\n}\n\n/**\n
  * Returns an [IntRange] of the valid indices for this
  collection.\n * @sample samples.collections.Collections.Collections.indicesOfCollection\n
*/\npublic val Collection<*>.indices: IntRange\n    get() = 0..size - 1\n\n/**\n
  * Returns the index of the last item in
  the list or -1 if the list is empty.\n * @sample samples.collections.Collections.Lists.lastIndexOfList\n */\npublic
  val <T> List<T>.lastIndex: Int\n    get() = this.size - 1\n\n/**\n
  * Returns `true` if the collection is not empty.\n *
  @sample samples.collections.Collections.Collections.collectionIsNotEmpty\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.isNotEmpty(): Boolean =
  !isEmpty()\n\n/**\n
  * Returns `true` if this nullable collection is either null or empty.\n * @sample
samples.collections.Collections.Collections.collectionIsNullOrEmpty\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>?.isNullOrEmpty():
  Boolean {\n    contract {\n    returns(false) implies (this@isNullOrEmpty != null)\n    }\n    return this == null ||
  this.isEmpty()\n}\n\n/**\n
  * Returns this Collection
  if it's not `null` and the empty list otherwise.\n * @sample
samples.collections.Collections.Collections.collectionOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun
  <T> Collection<T>?.orElse(): Collection<T> = this ?: emptyList()\n\n/**\n
  * Returns this List if it's not `null` and
  the empty list otherwise.\n * @sample samples.collections.Collections.Lists.listOrElse\n

```

```

*\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>?.orEmpty(): List<T> = this ?: emptyList()\n\n**\n * Returns this collection if it's not empty\n * or the result of calling [defaultValue] function if the collection is
empty.\n\n * @sample samples.collections.Collections.Collections.collectionIfEmpty\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifEmpty(defaultValue: () ->
R): R where C : Collection<*>, C : R =\n    if (isEmpty()) defaultValue() else this\n\n**\n * Checks if all
elements in the specified collection are contained in this collection.\n
*\n * Allows to overcome type-safety restriction of `containsAll` that requires to pass a collection of type
`Collection<E>`.\n\n * @sample samples.collections.Collections.Collections.collectionContainsAll\n
*\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T>
Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)\n\ninternal fun <T>
List<T>.optimizeReadOnlyList() = when (size) {\n    0 -> emptyList()\n    1 -> listOf(this[0])\n    else ->
this}\n\n**\n * Searches this list or its range for the provided [element] using the binary search algorithm.\n * The
list is expected to be sorted into ascending order according to the Comparable natural ordering of its elements,\n *
otherwise the result is undefined.\n\n * If the list contains multiple elements equal to the specified [element], there
is no guarantee which
one will be found.\n\n * `null` value is considered to be less than any non-null value.\n\n * @return the index of
the element, if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-
insertion point - 1)`.\n\n * The insertion point is defined as the index at which the element should be inserted,\n * so
that the list (or the specified subrange of list) still remains sorted.\n\n * @sample
samples.collections.Collections.Lists.binarySearchOnComparable\n\n * @sample
samples.collections.Collections.Lists.binarySearchWithBoundaries\n\n *\npublic fun <T : Comparable<T>>
List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {\n    rangeCheck(size, fromIndex,
toIndex)\n\n    var low = fromIndex\n    var high = toIndex - 1\n    while (low <= high) {\n        val mid = (low +
high).ushr(1) // safe from overflows\n        val midVal = get(mid)\n        val cmp = compareValues(midVal,
element)\n\n        if (cmp < 0)\n            low = mid + 1\n        else if (cmp > 0)\n            high = mid - 1\n        else\n            return mid // key found\n    }\n    return -(low + 1) // key not found\n}\n\n**\n * Searches this list or its range for the provided [element] using
the binary search algorithm.\n * The list is expected to be sorted into ascending order according to the specified
[comparator],\n * otherwise the result is undefined.\n\n * If the list contains multiple elements equal to the
specified [element], there is no guarantee which one will be found.\n\n * `null` value is considered to be less than
any non-null value.\n\n * @return the index of the element, if it is contained in the list within the specified
range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n\n * The insertion point is defined as the
index at which the element should be inserted,\n * so that the list (or the specified subrange of list) still remains
sorted according to the specified [comparator].\n
*\n * @sample samples.collections.Collections.Lists.binarySearchWithComparator\n\n *\npublic fun <T>
List<T>.binarySearch(element: T, comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Int {\n    rangeCheck(size, fromIndex, toIndex)\n\n    var low = fromIndex\n    var high = toIndex - 1\n    while (low <=
high) {\n        val mid = (low + high).ushr(1) // safe from overflows\n        val midVal = get(mid)\n        val cmp =
comparator.compare(midVal, element)\n\n        if (cmp < 0)\n            low = mid + 1\n        else if (cmp > 0)\n            high = mid - 1\n        else\n            return mid // key found\n    }\n    return -(low + 1) // key not found\n}\n\n**\n * Searches this list or its range for an element having the key returned by the specified [selector] function\n * equal to
the provided [key] value using the binary search algorithm.\n * The list is expected to be sorted into ascending order
according to the Comparable natural ordering of keys
of its elements.\n\n * otherwise the result is undefined.\n\n * If the list contains multiple elements with the specified
[key], there is no guarantee which one will be found.\n\n * `null` value is considered to be less than any non-null
value.\n\n * @return the index of the element with the specified [key], if it is contained in the list within the
specified range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n\n * The insertion point is defined

```

as the index at which the element should be inserted, so that the list (or the specified subrange of list) still remains sorted.

```

@sample samples.collections.Collections.Lists.binarySearchByKey
public inline fun <T,
K : Comparable<K>> List<T>.binarySearchBy(
    key: K?,
    fromIndex: Int = 0,
    toIndex: Int = size,
    crossinline selector: (T) -> K?): Int =
    binarySearch(fromIndex, toIndex) { compareValues(selector(it), key)
}
// do not introduce this overload --- too rare
public fun
<T, K> List<T>.binarySearchBy(key: K, comparator: Comparator<K>, fromIndex: Int = 0, toIndex: Int = size(),
selector: (T) -> K): Int =
    binarySearch(fromIndex, toIndex) { comparator.compare(selector(it), key)
}

```

Searches this list or its range for an element for which the given [comparison] function returns zero using the binary search algorithm. The list is expected to be sorted so that the signs of the [comparison] function's return values ascend on the list elements, i.e. negative values come before zero and zeroes come before positive values. Otherwise, the result is undefined. If the list contains multiple elements for which [comparison] returns zero, there is no guarantee which one will be found. @param comparison function that returns zero when called on the list element being searched. On the elements coming before the target element, the function must return negative values; on the elements coming after the target element, the function must return positive values. @return the index of the found element, if it is contained in the list within the specified range; otherwise, the inverted insertion point `(-insertion point - 1)`. The insertion point is defined as the index at which the element should be inserted, so that the list (or the specified subrange of list) still remains sorted.

@sample

```

samples.collections.Collections.Lists.binarySearchWithComparisonFunction
public fun <T>
List<T>.binarySearch(
    fromIndex: Int = 0,
    toIndex: Int = size,
    comparison: (T) -> Int): Int {
    rangeCheck(size,
fromIndex, toIndex)
    var low = fromIndex
    var high = toIndex - 1
    while (low <= high) {
        val mid = (low + high).ushr(1) // safe from overflows
        val midVal = get(mid)
        val cmp = comparison(midVal)
        if (cmp < 0) low = mid + 1
        else if (cmp > 0) high = mid - 1
        else return mid
    }
    key found
    return -(low + 1) // key not found
}

```

Checks that `from` and `to` are in the range of `[0..size]` and throws an appropriate exception, if they aren't.

```

private fun rangeCheck(
    size: Int,
    fromIndex: Int,
    toIndex: Int) {
    when {
        fromIndex > toIndex -> throw IllegalArgumentException(
            "fromIndex ($fromIndex) is greater than toIndex ($toIndex).")
        fromIndex < 0 -> throw
IndexOutOfBoundsException("fromIndex ($fromIndex) is less than zero.")
        toIndex > size -> throw
IndexOutOfBoundsException("toIndex ($toIndex) is greater than size ($size).")
    }
}

```

@PublishedApi  
@SinceKotlin("1.3")  
internal expect fun checkIndexOverflow(index: Int): Int  
@PublishedApi  
@SinceKotlin("1.3")  
internal expect fun checkCountOverflow(count: Int): Int  
@PublishedApi  
@SinceKotlin("1.3")  
internal fun throwIndexOverflow() { throw ArithmeticException("Index overflow has happened.") }  
@PublishedApi  
@SinceKotlin("1.3")  
internal fun throwCountOverflow() { throw ArithmeticException("Count overflow has happened.") }

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```

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("MapsKt")
@file:UseExperimental(kotlin
.experimental.ExperimentalTypeInference::class)
package kotlin.collections
import
kotlin.contracts.*
private object EmptyMap : Map<Any?, Nothing>, Serializable {
    private const val
serialVersionUID: Long = 8246714829545688274
    override fun equals(other: Any?): Boolean = other is
Map<*, *> && other.isEmpty()
    override fun hashCode(): Int = 0
    override fun toString(): String = "{}"
    override val size: Int get() = 0
    override fun isEmpty(): Boolean = true
    override fun containsKey(key:
Any?): Boolean = false
    override fun containsValue(value:
Nothing): Boolean = false
    override fun get(key: Any?): Nothing? = null
    override val entries:
Set<Map.Entry<Any?, Nothing>> get() = EmptySet
    override val keys: Set<Any?> get() = EmptySet
    override val values: Collection<Nothing> get() = EmptyList
    private fun readResolve(): Any =
EmptyMap
}

```

Returns an empty read-only map of specified type. The returned map is serializable

(JVM).\n \* @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\n \* ^\npublic fun <K, V>  
emptyMap(): Map<K, V> = @Suppress("UNCHECKED\_CAST") (EmptyMap as Map<K, V>)\n\n/\*\*\n \* Returns  
a new read-only map with the specified contents, given as a list of pairs\n \* where the first value is the key and the  
second is the value.\n \* If multiple pairs have the same key, the resulting map will contain the value from the  
last of those pairs.\n \* Entries of the map are iterated in the order they were specified.\n \* The returned map  
is serializable

(JVM).\n \* ^\n \* @sample samples.collections.Maps.Instantiation.mapFromPairs\n \* ^\npublic fun <K, V>  
mapOf(vararg pairs: Pair<K, V>): Map<K, V> =\n if (pairs.size > 0)  
pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))) else emptyMap()\n\n/\*\*\n \* Returns an empty read-only  
map.\n \* The returned map is serializable (JVM).\n \* @sample

samples.collections.Maps.Instantiation.emptyReadOnlyMap\n \* ^\n \* @kotlin.internal.InlineOnly\npublic inline fun  
<K, V> mapOf(): Map<K, V> = emptyMap()\n\n/\*\*\n \* Returns an empty new [MutableMap].\n \* The returned  
map preserves the entry iteration order.\n \* @sample samples.collections.Maps.Instantiation.emptyMutableMap\n \* ^\n \* @SinceKotlin("1.1")\n \* @kotlin.internal.InlineOnly\npublic inline fun <K, V> mutableMapOf():

MutableMap<K, V> = LinkedHashMap()\n\n/\*\*\n \* Returns a new [MutableMap] with the specified contents, given  
as a list of pairs\n \* where the first component is the key and the second is the value.\n \* If multiple pairs have  
the

same key, the resulting map will contain the value from the last of those pairs.\n \* Entries of the map are  
iterated in the order they were specified.\n \* @sample

samples.collections.Maps.Instantiation.mutableMapFromPairs\n \* @sample  
samples.collections.Maps.Instantiation.emptyMutableMap\n \* ^\npublic fun <K, V> mutableMapOf(vararg pairs:  
Pair<K, V>): MutableMap<K, V> =\n LinkedHashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs)  
}\n\n/\*\*\n \* Returns an empty new [HashMap].\n \* @sample

samples.collections.Maps.Instantiation.emptyHashMap\n \* ^\n \* @SinceKotlin("1.1")\n \* @kotlin.internal.InlineOnly\npublic inline fun <K, V> hashMapOf(): HashMap<K, V>  
= HashMap<K, V>()\n\n/\*\*\n \* Returns a new [HashMap] with the specified contents, given as a list of pairs\n \* where the first component is the key and the second is the value.\n \* @sample

samples.collections.Maps.Instantiation.hashMapFromPairs\n \* ^\npublic fun <K, V> hashMapOf(vararg pairs:  
Pair<K, V>): HashMap<K, V> =

HashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }\n\n/\*\*\n \* Returns an empty new  
[LinkedHashMap].\n \* ^\n \* @SinceKotlin("1.1")\n \* @kotlin.internal.InlineOnly\npublic inline fun <K, V>

linkedMapOf(): LinkedHashMap<K, V> = LinkedHashMap<K, V>()\n\n/\*\*\n \* Returns a new [LinkedHashMap]  
with the specified contents, given as a list of pairs\n \* where the first component is the key and the second is the  
value.\n \* If multiple pairs have the same key, the resulting map will contain the value from the last of those  
pairs.\n \* Entries of the map are iterated in the order they were specified.\n \* @sample

samples.collections.Maps.Instantiation.linkedMapFromPairs\n \* ^\npublic fun <K, V> linkedMapOf(vararg pairs:  
Pair<K, V>): LinkedHashMap<K, V> = pairs.toMap(LinkedHashMap(mapCapacity(pairs.size)))\n\n/\*\*\n \* Builds  
a new read-only [Map] by populating a [MutableMap] using the given [builderAction]\n \* and returning a read-only  
map with the same key-value pairs.\n \* The map

passed as a receiver to the [builderAction] is valid only inside that function.\n \* Using it outside of the function  
produces an unspecified behavior.\n \* Entries of the map are iterated in the order they were added by the  
[builderAction].\n \* @sample samples.collections.Builders.Maps.buildMapSample\n \* ^\n \* @SinceKotlin("1.3")\n \* @ExperimentalStdlibApi\n \* @kotlin.internal.InlineOnly\npublic inline fun <K, V>

buildMap(@BuilderInference builderAction: MutableMap<K, V>().->Unit): Map<K, V> {\n contract {\n callsInPlace(builderAction, InvocationKind.EXACTLY\_ONCE) }\n return LinkedHashMap<K,  
V>().apply(builderAction)\n}\n\n/\*\*\n \* Builds a new read-only [Map] by populating a [MutableMap] using the  
given [builderAction]\n \* and returning a read-only map with the same key-value pairs.\n \* The map passed as a  
receiver to the [builderAction] is valid only inside that function.\n \* Using it outside of the function produces an

unspecified behavior. `capacity` is used to hint the expected number of pairs added in the `builderAction`. Entries of the map are iterated in the order they were added by the `builderAction`. `@throws IllegalArgumentException` if the given `capacity` is negative.

`@sample samples.collections.Builders.Maps.buildMapSample`

```

*^@SinceKotlin("1.3")^@ExperimentalStdlibApi^@kotlin.internal.InlineOnly^public inline fun <K, V>
buildMap(capacity: Int, @BuilderInference builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {
    contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }
    checkBuilderCapacity(capacity)
    return LinkedHashMap<K, V>(mapCapacity(capacity)).apply(builderAction)
}

```

Calculate the initial capacity of a map.

```

*^@PublishedApi^internal expect fun mapCapacity(expectedSize: Int): Int

```

Checks a collection builder function capacity argument.

```

*^@SinceKotlin("1.3")^@ExperimentalStdlibApi^@PublishedApi^internal expect fun
checkBuilderCapacity(capacity:
    Int)

```

Returns `true` if this map is not empty.

```

*^@kotlin.internal.InlineOnly^public inline fun <K, V>
Map<out K, V>.isNotEmpty(): Boolean = !isEmpty()

```

Returns `true` if this nullable map is either null or empty.

`@sample samples.collections.Maps.Usage.mapOrNullOrEmpty`

```

*^@SinceKotlin("1.3")^@kotlin.internal.InlineOnly^public inline fun <K, V> Map<out K,
V>?.isNullOrEmpty(): Boolean {
    contract {
        returns(false) implies (this@isNullOrEmpty != null)
    }
    return this == null || isEmpty()
}

```

Returns the `[Map]` if its not `null`, or the empty `[Map]` otherwise.

`@sample samples.collections.Maps.Usage.mapOrNullOrEmpty`

```

*^@kotlin.internal.InlineOnly^public inline fun
<K, V> Map<K, V>?.orEmpty(): Map<K, V> = this ?: emptyMap()

```

Returns this map if it's not empty or the result of calling `[defaultValue]` function if the map is empty.

`@sample samples.collections.Maps.Usage.mapIfEmpty`

```

*^@SinceKotlin("1.3")^@kotlin.internal.InlineOnly^public
inline fun <M, R> M.ifEmpty(defaultValue: () -> R): R where M : Map<*, *>, M : R =
    if (isEmpty())
        defaultValue() else this

```

Checks if the map contains the given key.

This method allows to use the `x in map` syntax for checking whether an object is contained in the map.

```

*^@kotlin.internal.InlineOnly^public
inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.contains(key: K): Boolean =
    containsKey(key)

```

Returns the value corresponding to the given `[key]`, or `null` if such a key is not present in the map.

```

*^@kotlin.internal.InlineOnly^public inline operator fun <@kotlin.internal.OnlyInputTypes K, V>
Map<out K, V>.get(key: K): V? =
    @Suppress("UNCHECKED_CAST") (this as Map<K, V>).get(key)

```

Allows to use the index operator for storing values in a mutable map.

```

*^@kotlin.internal.InlineOnly^public inline operator fun <K, V> MutableMap<K, V>.set(key: K, value: V):
    Unit {
    put(key, value)
}

```

Returns `true` if the map contains the specified `[key]`.

Allows to overcome type-safety restriction of `containsKey` that requires to pass a key of type `K`.

```

*^@kotlin.internal.InlineOnly^public inline fun <@kotlin.internal.OnlyInputTypes K> Map<out K,
*>.containsKey(key: K): Boolean =
    @Suppress("UNCHECKED_CAST") (this as Map<K,
*>).containsKey(key)

```

Returns `true` if the map maps one or more keys to the specified `[value]`.

Allows to overcome type-safety restriction of `containsValue` that requires to pass a value of type `V`.

`@sample samples.collections.Maps.Usage.containsValue`

```

*^@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases
^@kotlin.internal.InlineOnly^public inline fun <K, @kotlin.internal.OnlyInputTypes V> Map<K,
V>.containsValue(value: V): Boolean = this.containsValue(value)

```

Removes the specified key and its corresponding value from this map.

`@return` the previous value associated with the key, or `null` if the key was not present in the map.

Allows to overcome type-safety restriction of `remove` that requires to pass a key of type `K`.

```

*^@kotlin.internal.InlineOnly^public inline fun <@kotlin.internal.OnlyInputTypes K, V> MutableMap<out K,
V>.remove(key: K): V? =
    @Suppress("UNCHECKED_CAST") (this as MutableMap<K,
V>).remove(key)

```

Returns the key component of the map entry.

This method allows to use destructuring declarations when working with maps, for example:

```

*^ for ((key, value) in map) {
    // do
}

```



```

[transform])\n * function to each entry in this [Map].\n *\n * The returned map preserves the entry iteration order of
the original map.\n *\n * @sample samples.collections.Maps.Transformations.mapValues\n */\npublic inline fun
<K, V, R> Map<out K, V>.mapValues(transform: (Map.Entry<K, V>) -> R): Map<K,
R> {\n    return mapValuesTo(LinkedHashMap<K, R>(mapCapacity(size)), transform) //
.optimizeReadOnlyMap()\n}\n\n/**\n * Returns a new Map with entries having the keys obtained by applying the
[transform] function to each entry in this\n * [Map] and the values of this map.\n *\n * In case if any two entries are
mapped to the equal keys, the value of the latter one will overwrite\n * the value associated with the former one.\n
*\n * The returned map preserves the entry iteration order of the original map.\n *\n * @sample
samples.collections.Maps.Transformations.mapKeys\n */\npublic inline fun <K, V, R> Map<out K,
V>.mapKeys(transform: (Map.Entry<K, V>) -> R): Map<R, V> {\n    return mapKeysTo(LinkedHashMap<R,
V>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\n}\n\n/**\n * Returns a map containing all key-
value pairs with keys matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of
the original map.\n *\n * @sample samples.collections.Maps.Filtering.filterKeys\n
*/\npublic inline fun <K, V> Map<out K, V>.filterKeys(predicate: (K) -> Boolean): Map<K, V> {\n    val result =
LinkedHashMap<K, V>()\n    for (entry in this) {\n        if (predicate(entry.key)) {\n            result.put(entry.key,
entry.value)\n        }\n    }\n    return result\n}\n\n/**\n * Returns a map containing all key-value pairs with values
matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of the original map.\n
*\n * @sample samples.collections.Maps.Filtering.filterValues\n */\npublic inline fun <K, V> Map<out K,
V>.filterValues(predicate: (V) -> Boolean): Map<K, V> {\n    val result = LinkedHashMap<K, V>()\n    for (entry
in this) {\n        if (predicate(entry.value)) {\n            result.put(entry.key, entry.value)\n        }\n    }\n    return
result\n}\n\n/**\n * Appends all entries matching the given [predicate] into the mutable map given as [destination]
parameter.\n *\n * @return the destination map.\n
*\n * @sample samples.collections.Maps.Filtering.filterTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in
V>> Map<out K, V>.filterTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {\n    for (element in
this) {\n        if (predicate(element)) {\n            destination.put(element.key, element.value)\n        }\n    }\n    return
destination\n}\n\n/**\n * Returns a new map containing all key-value pairs matching the given [predicate].\n *\n *
The returned map preserves the entry iteration order of the original map.\n *\n * @sample
samples.collections.Maps.Filtering.filter\n */\npublic inline fun <K, V> Map<out K, V>.filter(predicate:
(Map.Entry<K, V>) -> Boolean): Map<K, V> {\n    return filterTo(LinkedHashMap<K, V>(),
predicate)\n}\n\n/**\n * Appends all entries not matching the given [predicate] into the given [destination].\n *\n
*\n * @return the destination map.\n *\n * @sample samples.collections.Maps.Filtering.filterNotTo\n */\npublic inline fun
<K, V, M : MutableMap<in K,
in V>> Map<out K, V>.filterNotTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {\n    for
(element in this) {\n        if (!predicate(element)) {\n            destination.put(element.key, element.value)\n        }\n    }\n    return
destination\n}\n\n/**\n * Returns a new map containing all key-value pairs not matching the given
[predicate].\n *\n * The returned map preserves the entry iteration order of the original map.\n *\n * @sample
samples.collections.Maps.Filtering.filterNot\n */\npublic inline fun <K, V> Map<out K, V>.filterNot(predicate:
(Map.Entry<K, V>) -> Boolean): Map<K, V> {\n    return filterNotTo(LinkedHashMap<K, V>(),
predicate)\n}\n\n/**\n * Returns a new map containing all key-value pairs from the given collection of pairs.\n *\n
*\n * The returned map preserves the entry iteration order of the original collection.\n *\n * If any of two pairs would have the
same key the last one gets added to the map.\n */\npublic fun <K, V> Iterable<Pair<K, V>>.toMap(): Map<K, V>
{\n    if (this is Collection) {\n        return when (size) {\n            0 -> emptyMap()\n            1 -> mapOf(if (this is
List) this[0] else iterator().next())\n            else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n        }\n    }\n    return toMap(LinkedHashMap<K, V>()).optimizeReadOnlyMap()\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs from the given collection of pairs.\n */\npublic fun <K, V, M :
MutableMap<in K, in V>> Iterable<Pair<K, V>>.toMap(destination: M): M =\n    destination.apply {
putAll(this@toMap) }\n\n/**\n * Returns a new map containing all key-value pairs from the given array of pairs.\n
*\n * The returned map preserves the entry iteration order of the original array.\n *\n * If any of two pairs would have

```

the same key the last one gets added to the map.

```

public fun <K, V> Array<out Pair<K, V>>.toMap(): Map<K, V> = when (size) {
    0 -> emptyMap()
    1 -> mapOf(this[0])
    else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))
}

```

Populates and returns the [destination] mutable map with key-value pairs from the given array of pairs.

```

public fun <K, V, M : MutableMap<in K, in V>> Array<out Pair<K, V>>.toMap(destination: M): M =
    destination.apply { putAll(this@toMap) }

```

Returns a new map containing all key-value pairs from the given sequence of pairs. The returned map preserves the entry iteration order of the original sequence. If any of two pairs would have the same key the last one gets added to the map.

```

public fun <K, V> Sequence<Pair<K, V>>.toMap(): Map<K, V> = toMap(LinkedHashMap<K, V>())
.optimizeReadOnlyMap()

```

Populates and returns the [destination] mutable map with key-value pairs from the given sequence of pairs.

```

public fun <K, V, M : MutableMap<in K, in V>> Sequence<Pair<K, V>>.toMap(destination: M): M =
    destination.apply { putAll(this@toMap) }

```

Returns a new read-only map containing all key-value pairs from the original map. The returned map preserves the entry iteration order of the original map.

```

@SinceKotlin("1.1")
public fun <K, V> Map<out K, V>.toMap(): Map<K, V> = when (size) {
    0 -> emptyMap()
    1 -> toSingletonMap()
    else -> toMutableMap()
}

```

Returns a new mutable map containing all key-value pairs from the original map. The returned map preserves the entry iteration order of the original map.

```

@SinceKotlin("1.1")
public fun <K, V> Map<out K, V>.toMutableMap(): MutableMap<K, V> = LinkedHashMap(this)

```

Populates and returns the [destination] mutable map with key-value pairs from the given map.

```

@SinceKotlin("1.1")
public fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.toMap(destination: M): M =
    destination.apply { putAll(this@toMap) }

```

Creates a new read-only map by replacing or adding an entry to this map from a given key-value [pair]. The returned map preserves the entry iteration order of the original map. The [pair] is iterated in the end if it has a unique key.

```

public operator fun <K, V> Map<out K, V>.plus(pair: Pair<K, V>): Map<K, V> =
    if (this.isEmpty()) mapOf(pair) else
    LinkedHashMap(this).apply { put(pair.first, pair.second) }

```

Creates a new read-only map by replacing or adding entries to this map from a given collection of key-value [pairs]. The returned map preserves the entry iteration order of the original map. Those [pairs] with unique keys are iterated in the end in the order of [pairs] collection.

```

public operator fun <K, V> Map<out K, V>.plus(pairs: Iterable<Pair<K, V>>): Map<K, V> =
    if (this.isEmpty()) pairs.toMap() else
    LinkedHashMap(this).apply { putAll(pairs) }

```

Creates a new read-only map by replacing or adding entries to this map from a given array of key-value [pairs]. The returned map preserves the entry iteration order of the original map. Those [pairs] with unique keys are iterated in the end in the order of [pairs] array.

```

public operator fun <K, V> Map<out K, V>.plus(pairs: Array<out Pair<K, V>>): Map<K, V> =
    if (this.isEmpty()) pairs.toMap() else
    LinkedHashMap(this).apply { putAll(pairs) }

```

Creates a new read-only map by replacing or adding entries to this map from a given sequence of key-value [pairs]. The returned map preserves the entry iteration order of the original map. Those [pairs] with unique keys are iterated in the end in the order of [pairs] sequence.

```

public operator fun <K, V> Map<out K, V>.plus(pairs: Sequence<Pair<K, V>>): Map<K, V> =
    LinkedHashMap(this).apply { putAll(pairs) }
.optimizeReadOnlyMap()

```

Creates a new read-only map by replacing or adding entries to this map from another [map]. The returned map preserves the entry iteration order of the original map. Those entries of another [map] that are missing in this map are iterated in the end in the order of that [map].

```

public operator fun <K, V> Map<out K, V>.plus(map: Map<out K, V>): Map<K, V> =
    LinkedHashMap(this).apply { putAll(map) }

```

Appends or replaces the given [pair] in this mutable map.

```

@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pair: Pair<K, V>) {
    put(pair.first, pair.second)
}

```

Appends or replaces all pairs from the given collection of [pairs] in this mutable map.

```

@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Iterable<Pair<K, V>>) {
    putAll(pairs)
}

```

Appends or replaces all pairs from the given array of [pairs] in this mutable map.

```

@kotlin.internal.InlineOnly
public

```

```

inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Array<out Pair<K, V>>) {
    putAll(pairs)
}

inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Sequence<Pair<K, V>>) {
    putAll(pairs)
}

inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(map: Map<K, V>) {
    putAll(map)
}

inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(map: Map<K, V>) {
    putAll(map)
}

operator fun <K, V> Map<out K, V>.minus(key: K): Map<K, V> =
    this.toMutableMap().apply { minusAssign(key) }.optimizeReadOnlyMap()

operator fun <K, V> Map<out K, V>.minus(keys: Iterable<K>): Map<K, V> =
    this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()

operator fun <K, V> Map<out K, V>.minus(keys: Array<out K>): Map<K, V> =
    this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()

operator fun <K, V> Map<out K, V>.minus(keys: Sequence<K>): Map<K, V> =
    this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()

operator fun <K, V> MutableMap<K, V>.minusAssign(key: K) {
    remove(key)
}

operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Iterable<K>) {
    this.keys.removeAll(keys)
}

operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Array<out K>) {
    this.keys.removeAll(keys)
}

operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Sequence<K>) {
    this.keys.removeAll(keys)
}

@PublishedApi
internal fun <K, V> Map<K, V>.optimizeReadOnlyMap() = when (size) {
    0 -> emptyMap()
    1 -> toSingletonMapOrSelf()
    else -> this
}

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 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SetsKt")
@file:UseExperimental(kotlin.experimental.ExperimentalTypeInference::class)
package kotlin.collections
import kotlin.contracts.*
internal object EmptySet : Set<Nothing>, Serializable {
    private const val serialVersionUID: Long = 3406603774387020532
    override fun equals(other: Any?): Boolean = other is Set<*> && other.isEmpty()
    override fun hashCode(): Int = 0
    override fun toString(): String = "[]"
    override val size: Int get() = 0
    override fun isEmpty(): Boolean = true
    override fun contains(element: Nothing): Boolean = false
    override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()
    override fun iterator(): Iterator<Nothing> = EmptyIterator
    private fun readResolve(): Any = EmptySet
}

/* Returns an empty read-only set. The returned set is serializable (JVM).
 * @sample samples.collections.Collections.Sets.emptyReadOnlySet
 */
@public fun <T> emptySet(): Set<T> =

```

EmptySet\n\n/\*\*\n \* Returns a new read-only set with the given elements.\n \* Elements of the set are iterated in the order they were specified.\n \* The returned set is serializable (JVM).\n \* @sample samples.collections.Collections.Sets.readOnlySet\n \*/\npublic fun <T> setOf(vararg elements: T): Set<T> = if (elements.size > 0) elements.toSet() else emptySet()\n\n/\*\*\n \* Returns an empty read-only set. The returned set is serializable (JVM).\n \*/

@sample samples.collections.Collections.Sets.emptyReadOnlySet\n \*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> setOf(): Set<T> = emptySet()\n\n/\*\*\n \* Returns an empty new [MutableSet].\n \*/\n \* The returned set preserves the element iteration order.\n \* @sample samples.collections.Collections.Sets.emptyMutableSet\n \*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> mutableSetOf(): MutableSet<T> = LinkedHashSet()\n\n/\*\*\n \* Returns a new [MutableSet] with the given elements.\n \* Elements of the set are iterated in the order they were specified.\n \* @sample samples.collections.Collections.Sets.mutableSet\n \*/\npublic fun <T> mutableSetOf(vararg elements: T): MutableSet<T> = elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n\n/\*\*\n \* Returns an empty new [HashSet].

\*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> hashSetOf(): HashSet<T> = HashSet()\n\n/\*\*\n \* Returns a new [HashSet] with the given elements. \*/\npublic fun <T> hashSetOf(vararg elements: T): HashSet<T> = elements.toCollection(HashSet(mapCapacity(elements.size)))\n\n/\*\*\n \* Returns an empty new [LinkedHashSet].\n \*/\n \* @sample samples.collections.Collections.Sets.emptyLinkedHashSet\n \*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> linkedSetOf(): LinkedHashSet<T> = LinkedHashSet()\n\n/\*\*\n \* Returns a new [LinkedHashSet] with the given elements.\n \* Elements of the set are iterated in the order they were specified.\n \* @sample samples.collections.Collections.Sets.linkedHashSet\n \*/\npublic fun <T> linkedSetOf(vararg elements: T): LinkedHashSet<T> = elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n\n/\*\*\n \* Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction]\n \* and returning a read-only set with the same elements.\n \* The set passed as a receiver to the [builderAction] is valid only inside that function.\n \* Using it outside of the function produces an unspecified behavior.\n \* Elements of the set are iterated in the order they were added by the [builderAction].\n \*/\n \* @sample samples.collections.Builders.Sets.buildSetSample\n \*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <E> buildSet(@BuilderInference builderAction: MutableSet<E>.() -> Unit): Set<E> {\n contract { callsInPlace(builderAction, InvocationKind.EXACTLY\_ONCE) }\n return LinkedHashSet<E>().apply(builderAction)\n}\n\n/\*\*\n \* Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction]\n \* and returning a read-only set with the same elements.\n \* The set passed as a receiver to the [builderAction] is valid only inside that function.\n \* Using it outside of the function produces an unspecified behavior.\n \* [capacity] is used to hint the expected number of elements added in the [builderAction].\n \* Elements of the set are iterated in the order they were added by the [builderAction].\n \*/\n \* @throws IllegalArgumentException if the given [capacity] is negative.\n \* @sample samples.collections.Builders.Sets.buildSetSample\n \*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <E> buildSet(capacity: Int, @BuilderInference builderAction: MutableSet<E>.() -> Unit): Set<E> {\n contract { callsInPlace(builderAction, InvocationKind.EXACTLY\_ONCE) }\n checkBuilderCapacity(capacity)\n return LinkedHashSet<E>(mapCapacity(capacity)).apply(builderAction)\n}\n\n/\*\*\n \* Returns this Set if it's not `null` and the empty set otherwise. \*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>?.orEmpty(): Set<T> = this ?: emptySet()\n\ninternal fun <T> Set<T>.optimizeReadOnlySet() = when (size) {\n 0 -> emptySet()\n 1 -> setOf(iterator().next())\n else -> this\n}\n\n"/\*\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n@file:Suppress("PLATFORM")

```

M_CLASS_MAPPED_TO_KOTLIN")\n\npackage kotlin.text\n\n/**\n * Parses the string as a signed [Byte]  

number and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\n\n@SinceKotlin("1.1")\n\npublic fun String.toByteArrayOrNull(): Byte? = toByteOrNull(radix = 10)\n\n/**\n * Parses  

the string as a signed [Byte] number and returns the result\n * or `null` if the string is not a valid representation of a  

number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number  

conversion.\n *\n\n@SinceKotlin("1.1")\n\npublic fun String.toByteArrayOrNull(radix: Int): Byte? {\n    val int =  

this.toIntOrNull(radix) ?: return null\n    if (int < Byte.MIN_VALUE || int > Byte.MAX_VALUE) return null\n
return int.toByteArray()\n}\n\n/**\n * Parses the string as a [Short]  

number and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\n\n@SinceKotlin("1.1")\n\npublic fun String.toShortOrNull(): Short? = toShortOrNull(radix = 10)\n\n/**\n * Parses  

the string as a [Short] number and returns the result\n * or `null` if the string is not a valid representation of a  

number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number  

conversion.\n *\n\n@SinceKotlin("1.1")\n\npublic fun String.toShortOrNull(radix: Int): Short? {\n    val int =  

this.toIntOrNull(radix) ?: return null\n    if (int < Short.MIN_VALUE || int > Short.MAX_VALUE) return null\n
return int.toShort()\n}\n\n/**\n * Parses the string as an [Int] number and returns the result\n * or `null` if the string  

is not a valid representation of a number.\n *\n\n@SinceKotlin("1.1")\n\npublic fun String.toIntOrNull(): Int? =  

toIntOrNull(radix = 10)\n\n/**\n * Parses the string as an [Int] number and returns the result\n * or  

`null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when  

[radix] is not a valid radix for string to number conversion.\n *\n\n@SinceKotlin("1.1")\n\npublic fun  

String.toIntOrNull(radix: Int): Int? {\n    checkRadix(radix)\n\n    val length = this.length\n    if (length == 0) return  

null\n\n    val start: Int\n    val isNegative: Boolean\n    val limit: Int\n\n    val firstChar = this[0]\n    if (firstChar <  

'0') { // Possible leading sign\n        if (length == 1) return null // non-digit (possible sign) only, no digits after\n
        start = 1\n        if (firstChar == '-') {\n            isNegative = true\n            limit = Int.MIN_VALUE\n        } else if  

(firstChar == '+') {\n            isNegative = false\n            limit = -Int.MAX_VALUE\n        } else\n            return  

null\n    } else {\n        start = 0\n        isNegative = false\n        limit = -Int.MAX_VALUE\n    }\n\n    val  

limitForMaxRadix = (-Int.MAX_VALUE)  

/ 36\n\n    var limitBeforeMul = limitForMaxRadix\n    var result = 0\n    for (i in start until length) {\n        val digit  

= digitOf(this[i], radix)\n\n        if (digit < 0) return null\n        if (result < limitBeforeMul) {\n            if  

(limitBeforeMul == limitForMaxRadix) {\n                limitBeforeMul = limit / radix\n\n                if (result <  

limitBeforeMul) {\n                    return null\n                }\n            } else {\n                return null\n            }\n        }\n\n        result *= radix\n\n        if (result < limit + digit) return null\n\n        result -= digit\n    }\n\n    return if  

(isNegative) result else -result\n}\n\n/**\n * Parses the string as a [Long] number and returns the result\n * or `null`  

if the string is not a valid representation of a number.\n *\n\n@SinceKotlin("1.1")\n\npublic fun  

String.toLongOrNull(): Long? = toLongOrNull(radix = 10)\n\n/**\n * Parses the string as a [Long] number and  

returns the result\n * or `null`  

if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is  

not a valid radix for string to number conversion.\n *\n\n@SinceKotlin("1.1")\n\npublic fun  

String.toLongOrNull(radix: Int): Long? {\n    checkRadix(radix)\n\n    val length = this.length\n    if (length == 0)  

return null\n\n    val start: Int\n    val isNegative: Boolean\n    val limit: Long\n\n    val firstChar = this[0]\n    if  

(firstChar < '0') { // Possible leading sign\n        if (length == 1) return null // non-digit (possible sign) only, no  

digits after\n\n        start = 1\n        if (firstChar == '-') {\n            isNegative = true\n            limit =  

Long.MIN_VALUE\n        } else if (firstChar == '+') {\n            isNegative = false\n            limit = -  

Long.MAX_VALUE\n        } else\n            return null\n    } else {\n        start = 0\n        isNegative = false\n
limit = -Long.MAX_VALUE\n    }\n\n    val limitForMaxRadix = (-Long.MAX_VALUE)  

/ 36\n\n    var limitBeforeMul = limitForMaxRadix\n    var result = 0L\n    for (i in start until length) {\n        val  

digit = digitOf(this[i], radix)\n\n        if (digit < 0) return null\n        if (result < limitBeforeMul) {\n            if  

(limitBeforeMul == limitForMaxRadix) {\n                limitBeforeMul = limit / radix\n\n                if (result <  

limitBeforeMul) {\n                    return null\n                }\n            } else {\n                return null\n            }\n        }\n\n        result *= radix\n\n        if (result < limit + digit) return null\n\n        result -= digit\n    }\n\n    return if  

(isNegative) result else -result\n}\n

```

```

    }
    result *= radix
    if (result < limit + digit) return null
    result -= digit
    return if
(isNegative) result else -result
}

internal fun numberFormatError(input: String): Nothing = throw
NumberFormatException("Invalid number format: '$input'")

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license/LICENSE.txt file.

@file:kotlin.jvm.JvmName("UnsignedKt")
@file:UseExperimental(ExperimentalUnsignedTypes::class)
package kotlin

@PublishedApi
internal fun uintCompare(v1: Int, v2: Int): Int = (v1 xor
Int.MIN_VALUE).compareTo(v2 xor Int.MIN_VALUE)
@PublishedApi
internal fun ulongCompare(v1: Long,
v2: Long): Int = (v1 xor Long.MIN_VALUE).compareTo(v2 xor Long.MIN_VALUE)
@PublishedApi
internal fun uintDivide(v1: UInt, v2: UInt): UInt = (v1.toLong() / v2.toLong()).toUInt()
@PublishedApi
internal fun uintRemainder(v1: UInt, v2: UInt): UInt = (v1.toLong() % v2.toLong()).toUInt()
// Division and remainder are
based on Guava's UnsignedLongs implementation
// Copyright 2011 The Guava
Authors
@PublishedApi
internal fun ulongDivide(v1: ULong, v2: ULong): ULong {
    val dividend =
v1.toLong()
    val divisor = v2.toLong()
    if (divisor < 0) { // i.e., divisor >= 2^63
        return if (v1 < v2)
        ULong(0) else ULong(1)
    }
    // Optimization - use
signed division if both dividend and divisor < 2^63
    if (dividend >= 0) {
        return ULong(dividend /
divisor)
    }
    // Otherwise, approximate the quotient, check, and correct if necessary.
    val quotient =
((dividend ushr 1) / divisor) shl 1
    val rem = dividend - quotient * divisor
    return ULong(quotient + if
(ULong(rem) >= ULong(divisor)) 1 else 0)
}
@PublishedApi
internal fun ulongRemainder(v1: ULong, v2:
ULong): ULong {
    val dividend = v1.toLong()
    val divisor = v2.toLong()
    if (divisor < 0) { // i.e., divisor
>= 2^63
        return if (v1 < v2) {
            v1 // dividend < divisor
        } else {
            v1 - v2 // dividend >=
divisor
        }
    }
    // Optimization - use signed modulus if both dividend and divisor < 2^63
    if (dividend
>= 0) {
        return ULong(dividend % divisor)
    }
    // Otherwise, approximate the quotient, check, and
correct if necessary.
    val quotient = ((dividend ushr 1)
/ divisor) shl 1
    val rem = dividend - quotient * divisor
    return ULong(rem - if (ULong(rem) >=
ULong(divisor)) divisor else 0)
}
@PublishedApi
internal fun doubleToUInt(v: Double): UInt = when {
    v.isNaN() -> 0u
    v <= UInt.MIN_VALUE.toDouble() -> UInt.MIN_VALUE
    v >=
UInt.MAX_VALUE.toDouble() -> UInt.MAX_VALUE
    v <= Int.MAX_VALUE -> v.toInt().toUInt()
    else -
> (v - Int.MAX_VALUE).toInt().toUInt() + Int.MAX_VALUE.toUInt()
    // Int.MAX_VALUE < v <
UInt.MAX_VALUE
}
@PublishedApi
internal fun doubleToULong(v: Double): ULong = when {
    v.isNaN() -> 0u
    v <= ULong.MIN_VALUE.toDouble() -> ULong.MIN_VALUE
    v >=
ULong.MAX_VALUE.toDouble() -> ULong.MAX_VALUE
    v < Long.MAX_VALUE ->
v.toLong().toULong()
    // Real values from Long.MAX_VALUE to (Long.MAX_VALUE + 1) are not
representable in Double, so don't handle them.
    else -> (v - 9223372036854775808.0).toLong().toULong() +
9223372036854775808uL
    // Long.MAX_VALUE + 1 < v <
ULong.MAX_VALUE
}
@PublishedApi
internal
fun uintToDouble(v: Int): Double = (v and Int.MAX_VALUE).toDouble() + (v ushr 31 shl 30).toDouble() *
2
@PublishedApi
internal fun ulongToDouble(v: Long): Double = (v ushr 11).toDouble() * 2048 + (v and
2047)
@PublishedApi
internal fun ulongToString(v: Long): String = ulongToString(v, 10)
@PublishedApi
internal fun ulongToString(v:
Long, base: Int): String {
    if (v >= 0) return v.toString(base)
    var quotient = ((v ushr 1) / base) shl 1
    var
rem = v - quotient * base
    if (rem >= base) {
        rem -= base
        quotient += 1
    }
    return
quotient.toString(base) + rem.toString(base)
}

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@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CollectionsKt")
package
kotlin.collections

/** Given an [iterator]

```

```

function constructs an [Iterable] instance that returns values through the [Iterator]\n * provided by that function.\n *
@sample samples.collections.Iterables.Building.iterable\n * \n @kotlin.internal.InlineOnly\n public inline fun <T>
Iterable(crossinline iterator: () -> Iterator<T>): Iterable<T> = object : Iterable<T> {\n    override fun iterator():
Iterator<T> = iterator()\n}\n\n/**\n * A wrapper over another [Iterable] (or any other object that can produce an
[Iterator]) that returns\n * an indexing iterator.\n * \n @kotlin.internal class IndexingIterable<out T>(private val
iteratorFactory: () -> Iterator<T>) : Iterable<IndexedValue<T>> {\n    override fun iterator():
Iterator<IndexedValue<T>> = IndexingIterator(iteratorFactory())\n}\n\n\n/**\n * Returns the size of this iterable if
it is known, or `null` otherwise.\n * \n @kotlin.internal fun <T> Iterable<T>.collectionSizeOrNull(): Int? =
if (this is Collection<*>) this.size else null\n\n\n/**\n * Returns the size of this iterable
if it is known, or the specified [default] value otherwise.\n * \n @kotlin.internal fun <T>
Iterable<T>.collectionSizeOrDefault(default: Int): Int = if (this is Collection<*>) this.size else default\n\n\n/**
Returns true when it's safe to convert this collection to a set without changing contains method behavior. \n private
fun <T> Collection<T>.safeToConvertToSet() = size > 2 && this is ArrayList\n\n\n/** Converts this collection to a
set, when it's worth so and it doesn't change contains method behavior. \n internal fun <T>
Iterable<T>.convertToSetForSetOperationWith(source: Iterable<T>): Collection<T> =\n    when (this) {\n        is
Set -> this\n        is Collection -> \n            when {\n                source is Collection && source.size < 2 -> this\n            else -> if (this.safeToConvertToSet()) toHashSet() else this\n        }\n        else -> toHashSet()\n    }\n\n\n/**
Converts this collection to a set, when it's worth so and it doesn't change contains method
behavior. \n internal fun <T> Iterable<T>.convertToSetForSetOperation(): Collection<T> =\n    when (this) {\n        is
Set -> this\n        is Collection -> if (this.safeToConvertToSet()) toHashSet() else this\n        else -> toHashSet()\n    }\n\n\n/** Returns a single list of all elements from all collections in the given collection.\n * @sample
samples.collections.Iterables.Operations.flattenIterable\n * \n public fun <T> Iterable<Iterable<T>>.flatten():
List<T> {\n    val result = ArrayList<T>()\n    for (element in this) {\n        result.addAll(element)\n    }\n    return
result\n}\n\n\n/** Returns a pair of lists, where\n * *first* list is built from the first values of each pair from this
collection.\n * *second* list is built from the second values of each pair from this collection.\n * @sample
samples.collections.Iterables.Operations.unzipIterable\n * \n public fun <T, R> Iterable<Pair<T, R>>.unzip():
Pair<List<T>, List<R>> {\n    val expectedSize = collectionSizeOrDefault(10)\n    val listT = ArrayList<T>(expectedSize)\n    val listR = ArrayList<R>(expectedSize)\n    for (pair in this) {\n        listT.add(pair.first)\n        listR.add(pair.second)\n    }\n    return listT to listR\n}\n\n\n"/\n * Copyright 2010-2018
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Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n @file:kotlin.jvm.JvmMultifileClass\n @file:kotlin.jvm.JvmName("SequencesKt")\n\n package
kotlin.sequences\n\n\n/** Given an [iterator] function constructs a [Sequence] that returns values through the
[Iterator]\n * provided by that function.\n * The values are evaluated lazily, and the sequence is potentially
infinite.\n * \n @sample samples.collections.Sequences.Building.sequenceFromIterator\n
*/\n\n @kotlin.internal.InlineOnly\n public inline fun <T> Sequence(crossinline iterator: () -> Iterator<T>):
Sequence<T> = object : Sequence<T> {\n    override
fun iterator(): Iterator<T> = iterator()\n}\n\n\n/** Creates a sequence that returns all elements from this iterator.
The sequence is constrained to be iterated only once.\n * \n @sample
samples.collections.Sequences.Building.sequenceFromIterator\n * \n public fun <T> Iterator<T>.asSequence():
Sequence<T> = Sequence { this }.constrainOnce()\n\n\n/** Creates a sequence that returns the specified values.\n @sample
samples.collections.Sequences.Building.sequenceOfValues\n * \n public fun <T> sequenceOf(vararg
elements: T): Sequence<T> = if (elements.isEmpty()) emptySequence() else elements.asSequence()\n\n\n/** Returns an empty sequence.\n * \n public fun <T> emptySequence(): Sequence<T> = EmptySequence\n\n\n private
object EmptySequence : Sequence<Nothing>, DropTakeSequence<Nothing> {\n    override fun iterator():
Iterator<Nothing> = EmptyIterator\n    override fun drop(n: Int) = EmptySequence\n    override fun take(n: Int) =
EmptySequence\n}\n\n\n/** Returns this sequence if

```

```

it's not `null` and the empty sequence otherwise.\n * @sample
samples.collections.Sequences.Usage.sequenceOrElseEmpty\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>?.orElseEmpty():
Sequence<T> = this ?: emptySequence()\n\n/**\n * Returns a sequence that iterates through the elements either of
this sequence\n * or, if this sequence turns out to be empty, of the sequence returned by [defaultValue] function.\n
*\n * @sample samples.collections.Sequences.Usage.sequenceIfEmpty\n *\n@SinceKotlin("1.3")\npublic fun
<T> Sequence<T>.ifEmpty(defaultValue: () -> Sequence<T>): Sequence<T> = sequence {\n    val iterator =
this@ifEmpty.iterator()\n    if (iterator.hasNext()) {\n        yieldAll(iterator)\n    } else {\n
yieldAll(defaultValue())\n    }\n}\n\n/**\n * Returns a sequence of all elements from all sequences in this
sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n@public fun <T>
Sequence<Sequence<T>>.flatten(): Sequence<T>
= flatten { it.iterator() }\n\n/**\n * Returns a sequence of all elements from all iterables in this sequence.\n *\n
The operation is _intermediate_ and _stateless_.\n
*\n@kotlin.jvm.JvmName("flattenSequenceOfIterable")\npublic fun <T> Sequence<Iterable<T>>.flatten():
Sequence<T> = flatten { it.iterator() }\n\nprivate fun <T, R> Sequence<T>.flatten(iterator: (T) -> Iterable<R>):
Sequence<R> {\n    if (this is TransformingSequence<*, *>) {\n        return (this as TransformingSequence<*,
T>).flatten(iterator)\n    }\n    return FlatteningSequence(this, { it }, iterator)\n}\n\n/**\n * Returns a pair of lists,
where\n * *first* list is built from the first values of each pair from this sequence,\n * *second* list is built from the
second values of each pair from this sequence.\n *\n * The operation is _terminal_.\n *\n@public fun <T, R>
Sequence<Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\n    val listT = ArrayList<T>()\n    val listR =
ArrayList<R>()\n    for (pair in this)
{\n        listT.add(pair.first)\n        listR.add(pair.second)\n    }\n    return listT to listR\n}\n\n/**\n * A sequence that
returns the values from the underlying [sequence] that either match or do not match\n * the specified [predicate].\n
*\n * @param sendWhen If `true`, values for which the predicate returns `true` are returned. Otherwise,\n * values
for which the predicate returns `false` are returned\n *\n@internal class FilteringSequence<T>(\n    private val
sequence: Sequence<T>,\n    private val sendWhen: Boolean = true,\n    private val predicate: (T) -> Boolean\n) :
Sequence<T> {\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        val iterator =
sequence.iterator()\n        var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n        var nextItem: T?
= null\n        private fun calcNext() {\n            while (iterator.hasNext()) {\n                val item = iterator.next()\n
                if (predicate(item) == sendWhen)
{\n                    nextItem = item\n                    nextState = 1\n                    return\n                }\n
                nextState = 0\n            }\n            override fun next(): T {\n                if (nextState == -1)\n                    calcNext()\n                if
(nextState == 0)\n                    throw NoSuchElementException()\n                val result = nextItem\n                nextItem =
null\n                nextState = -1\n                @SuppressWarnings("UNCHECKED_CAST")\n                return result as T\n            }\n
            override fun hasNext(): Boolean {\n                if (nextState == -1)\n                    calcNext()\n                return nextState ==
1\n            }\n        }\n    }\n}\n\n/**\n * A sequence which returns the results of applying the given [transformer] function to
the values\n * in the underlying [sequence].\n *\n@internal class TransformingSequence<T,
R>\n@constructor(private val sequence: Sequence<T>, private val transformer: (T) -> R) : Sequence<R> {\n
override fun
iterator(): Iterator<R> = object : Iterator<R> {\n    val iterator = sequence.iterator()\n    override fun next(): R
{\n        return transformer(iterator.next())\n    }\n    override fun hasNext(): Boolean {\n        return
iterator.hasNext()\n    }\n}\n\n    internal fun <E> flatten(iterator: (R) -> Iterable<E>): Sequence<E> {\n
return FlatteningSequence<T, R, E>(sequence, transformer, iterator)\n    }\n}\n\n/**\n * A sequence which returns
the results of applying the given [transformer] function to the values\n * in the underlying [sequence], where the
transformer function takes the index of the value in the underlying\n * sequence along with the value itself.\n
*\n@internal class TransformingIndexedSequence<T, R>\n@constructor(private val sequence: Sequence<T>, private
val transformer: (Int, T) -> R) : Sequence<R> {\n    override fun iterator(): Iterator<R> = object : Iterator<R> {\n
val iterator = sequence.iterator()\n        var

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index = 0\n    override fun next(): R {\n        return transformer(checkIndexOverflow(index++),
iterator.next())\n    }\n\n    override fun hasNext(): Boolean {\n        return iterator.hasNext()\n    }\n}\n\n/**\n * A sequence which combines values from the underlying [sequence] with their indices and returns
them as\n * [IndexedValue] objects.\n */\ninternal class IndexingSequence<T>\nconstructor(private val sequence:
Sequence<T>) : Sequence<IndexedValue<T>> {\n    override fun iterator(): Iterator<IndexedValue<T>> = object :
Iterator<IndexedValue<T>> {\n        val iterator = sequence.iterator()\n        var index = 0\n        override fun next():
IndexedValue<T> {\n            return IndexedValue(checkIndexOverflow(index++), iterator.next())\n        }\n\n        override fun hasNext(): Boolean {\n            return iterator.hasNext()\n        }\n    }\n}\n\n/**\n * A sequence which
takes the values from two parallel underlying sequences, passes them
to the given\n * [transform] function and returns the values returned by that function. The sequence stops
returning\n * values as soon as one of the underlying sequences stops returning values.\n */\ninternal class
MergingSequence<T1, T2, V>\nconstructor(\n    private val sequence1: Sequence<T1>,\n    private val sequence2:
Sequence<T2>,\n    private val transform: (T1, T2) -> V\n) : Sequence<V> {\n    override fun iterator(): Iterator<V>
= object : Iterator<V> {\n        val iterator1 = sequence1.iterator()\n        val iterator2 = sequence2.iterator()\n
        override fun next(): V {\n            return transform(iterator1.next(), iterator2.next())\n        }\n\n        override fun
hasNext(): Boolean {\n            return iterator1.hasNext() && iterator2.hasNext()\n        }\n    }\n}\n\ninternal class
FlatteningSequence<T, R, E>\nconstructor(\n    private val sequence: Sequence<T>,\n    private val transformer: (T)
-> R,\n    private val iterator: (R) -> Iterator<E>\n) : Sequence<E>
{\n    override fun iterator(): Iterator<E> = object : Iterator<E> {\n        val iterator = sequence.iterator()\n        var
itemIterator: Iterator<E>? = null\n\n        override fun next(): E {\n            if (!ensureItemIterator())\n                throw
NoSuchElementException()\n            return itemIterator!!.next()\n        }\n\n        override fun hasNext(): Boolean
{\n            return ensureItemIterator()\n        }\n\n        private fun ensureItemIterator(): Boolean {\n            if
(itemIterator?.hasNext() == false)\n                itemIterator = null\n\n            while (itemIterator == null) {\n
                if (!iterator.hasNext())\n                    return false\n                } else {\n                    val element = iterator.next()\n
                    val nextItemIterator = iterator(transformer(element))\n                    if (nextItemIterator.hasNext()) {\n
                        itemIterator = nextItemIterator\n                        return true\n                    }\n                }\n            }\n        }\n    }\n}\n\n/**\n * A sequence that
supports drop(n) and take(n) operations\n */\ninternal interface DropTakeSequence<T> : Sequence<T> {\n    fun
drop(n: Int): Sequence<T>\n    fun take(n: Int): Sequence<T>\n}\n\n/**\n * A sequence that skips [startIndex]
values from the underlying [sequence]\n * and stops returning values right before [endIndex], i.e. stops at `endIndex
- 1`\n */\ninternal class SubSequence<T>(\n    private val sequence: Sequence<T>,\n    private val startIndex: Int,\n
private val endIndex: Int\n) : Sequence<T>, DropTakeSequence<T> {\n    init {\n        require(startIndex >= 0) {\n
            \"startIndex should be non-negative, but is $startIndex\"\n        }\n        require(endIndex >= 0) {\n
            \"endIndex should be non-negative, but is $endIndex\"\n        }\n        require(endIndex >= startIndex) {\n
            \"endIndex should be not less than startIndex, but was $endIndex < $startIndex\"\n        }\n    }\n\n    private val count: Int get() = endIndex - startIndex\n\n    override fun drop(n: Int): Sequence<T> = if (n >= count)
emptySequence() else SubSequence(sequence, startIndex + n, endIndex)\n\n    override fun take(n: Int): Sequence<T>
= if (n >= count) this else SubSequence(sequence, startIndex, startIndex + n)\n\n    override fun iterator() = object :
Iterator<T> {\n        val iterator = sequence.iterator()\n        var position = 0\n\n        // Shouldn't be called from
constructor to avoid premature iteration\n        private fun drop() {\n            while (position < startIndex &&
iterator.hasNext()) {\n                iterator.next()\n                position++\n            }\n        }\n\n        override fun
hasNext(): Boolean {\n            drop()\n            return (position < endIndex) && iterator.hasNext()\n        }\n\n        override fun
next(): T {\n            drop()\n            if (position >= endIndex)\n                throw
NoSuchElementException()\n            position++\n            return iterator.next()\n        }\n    }\n}\n\n/**\n * A sequence that returns at most [count] values from the
underlying [sequence], and stops returning values\n * as soon as that count is reached.\n */\ninternal class
TakeSequence<T>(\n    private val sequence: Sequence<T>,\n    private val count: Int\n) : Sequence<T>,
DropTakeSequence<T> {\n    init {\n        require(count >= 0) {\n            \"count must be non-negative, but was $count.\"\n        }\n    }\n}

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val next = source.next()\n        val key = keySelector(next)\n\n        if (observed.add(key)) {\n            setNext(next)\n            return\n        }\n        done()\n    }\n}\n\nprivate class\nGeneratorSequence<T : Any>(private val getInitialValue: () -> T?, private val getNextValue: (T) -> T?) :\nSequence<T> {\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        var nextItem: T? = null\n        var nextState: Int = -2 // -2 for initial unknown, -1 for next unknown, 0 for done, 1 for continue\n\n        private fun\n        calcNext() {\n            nextItem = if (nextState == -2) getInitialValue() else getNextValue(nextItem!)\n            nextState = if (nextItem == null) 0 else 1\n        }\n\n        override fun next(): T {\n            if (nextState < 0)\n                calcNext()\n            if (nextState == 0)\n                throw NoSuchElementException()\n            val result =\n                nextItem as T\n            // Do not clean nextItem (to avoid keeping reference on yielded instance) -- need to keep\n            state for getNextValue\n            nextState = -1\n            return result\n        }\n\n        override fun hasNext(): Boolean {\n            if (nextState <\n            0)\n                calcNext()\n            return nextState == 1\n        }\n    }\n}\n\n/**\n * Returns a wrapper sequence that\n * provides values of this sequence, but ensures it can be iterated only one time.\n *\n * The operation is\n * _intermediate_ and _stateless_.\n *\n * [IllegalStateException] is thrown on iterating the returned sequence from the\n * second time.\n *\n */\npublic fun <T> Sequence<T>.constrainOnce(): Sequence<T> {\n    // as? does not work in\n    js\n    //return this as? ConstrainedOnceSequence<T>?: ConstrainedOnceSequence(this)\n    return if (this is\n    ConstrainedOnceSequence<T>) this else ConstrainedOnceSequence(this)\n}\n\n/**\n * Returns a sequence which\n * invokes the function to calculate the next value on each iteration until the function returns `null`.\n *\n * The\n * returned sequence is constrained to be iterated only once.\n *\n * @see\n    constrainOnce\n *\n * @see kotlin.sequences.sequence\n *\n * @sample\n    samples.collections.Sequences.Building.generateSequence\n *\n */\npublic fun <T : Any>\ngenerateSequence(nextFunction: () -> T?): Sequence<T> {\n    return GeneratorSequence(nextFunction, {\n    nextFunction() }).constrainOnce()\n}\n\n/**\n * Returns a sequence defined by the starting value [seed] and the\n * function [nextFunction],\n * which is invoked to calculate the next value based on the previous one on each\n * iteration.\n *\n * The sequence produces values until it encounters first `null` value.\n *\n * If [seed] is `null`, an empty\n * sequence is produced.\n *\n * The sequence can be iterated multiple times, each time starting with [seed].\n *\n * @see kotlin.sequences.sequence\n *\n * @sample\n    samples.collections.Sequences.Building.generateSequenceWithSeed\n *\n */\n@kotlin.internal.LowPriorityInOverloadResolution\npublic fun <T : Any> generateSequence(seed: T?,\nnextFunction: (T) -> T?): Sequence<T> =\n    if (seed == null)\n        EmptySequence\n    else\n        GeneratorSequence({ seed }, nextFunction)\n\n/**\n * Returns a sequence defined by the function\n * [seedFunction], which is invoked to produce the starting value,\n * and the [nextFunction], which is invoked to\n * calculate the next value based on the previous one on each iteration.\n *\n * The sequence produces values until it\n * encounters first `null` value.\n *\n * If [seedFunction] returns `null`, an empty sequence is produced.\n *\n * The\n * sequence can be iterated multiple times.\n *\n * @see kotlin.sequences.sequence\n *\n * @sample\n    samples.collections.Sequences.Building.generateSequenceWithLazySeed\n *\n */\npublic fun <T : Any>\ngenerateSequence(seedFunction: () -> T?, nextFunction: (T) -> T?): Sequence<T> =\n    GeneratorSequence(seedFunction, nextFunction)\n}\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin\n * Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be\n * found in the license/LICENSE.txt file.\n *\n */\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("PreconditionsKt")\n\npackage\nkotlin\n\nimport kotlin.contracts.contract\n\n/**\n * Throws an [IllegalArgumentException] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n *\n */\n@kotlin.internal.InlineOnly\npublic\ninline fun require(value: Boolean): Unit {\n    contract {\n        returns() implies value\n    }\n    require(value) {\n        \"Failed requirement.\" }\n}\n\n/**\n * Throws an [IllegalArgumentException] with the result of calling\n * [lazyMessage] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n *\n */\n@kotlin.internal.InlineOnly\npublic inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {\n    contract {\n        returns() implies value\n    }\n    if (!value) {\n        val message = lazyMessage()\n        throw

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IllegalStateException(message.toString())\n } else {\n     return value\n }\n}\n\n/**\n * Throws an [IllegalStateException] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun check(value: Boolean): Unit {\n    contract {\n        returns() implies value\n    }\n    check(value) { "Check failed." }\n}\n\n/**\n * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun check(value: Boolean, lazyMessage: () -> Any): Unit {\n    contract {\n        returns() implies value\n    }\n    if (!value) {\n        val message = lazyMessage()\n        throw IllegalStateException(message.toString())\n    }\n}\n\n/**\n * Throws an [IllegalStateException] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any> checkNotNull(value: T?): T {\n    contract {\n        returns() implies (value != null)\n    }\n    return checkNotNull(value) { "Required value was null." }\n}\n\n/**\n * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any> requireNotNull(value: T?, lazyMessage: () -> Any): T {\n    contract {\n        returns() implies (value != null)\n    }\n    if (value == null) {\n        val message = lazyMessage()\n        throw\n        IllegalStateException(message.toString())\n    } else {\n        return value\n    }\n}\n\n/**\n * Throws an [IllegalStateException] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any> requireNotNull(value: T?, lazyMessage: () -> Any): T {\n    contract {\n        returns() implies (value != null)\n    }\n    if (value == null) {\n        val message = lazyMessage()\n        throw\n        IllegalStateException(message.toString())\n    } else {\n        return value\n    }\n}\n\n/**\n * Throws an [IllegalStateException] with the given [message].\n *\n * @sample samples.misc.Preconditions.failWithError\n */\n@kotlin.internal.InlineOnly\npublic inline fun error(message: Any): Nothing = throw\n        IllegalStateException(message.toString())\n}\n\n/**\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of\n * this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the\n// GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport\n        kotlin.js.*\nimport\n        primitiveArrayConcat\nimport\n        withType\nimport\n        kotlin.ranges.contains\nimport\n        kotlin.ranges.reversed\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic actual fun <T> Array<out T>.elementAt(index: Int): T {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic actual fun ByteArray.elementAt(index: Int): Byte {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic actual fun ShortArray.elementAt(index: Int): Short {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic actual fun IntArray.elementAt(index: Int): Int {\n    return elementAtOrElse(index) { throw

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*\n@SinceKotlin("1.1")\n@library("arrayDeepEquals")\npublic actual infix
fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean {\n  definedExternally\n}\n\n/**\n *
Returns a hash code based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n *
\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n
*\n@SinceKotlin("1.1")\n@library("arrayDeepHashCode")\npublic actual fun <T> Array<out
T>.contentDeepHashCode(): Int {\n  definedExternally\n}\n\n/**\n * Returns a string representation of the
contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains
itself on any nesting level that reference\n * is rendered as `"[...]"` to prevent recursion.\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentDeepToString\n
*\n@SinceKotlin("1.1")\n@library("arrayDeepToString")\npublic actual fun <T> Array<out
T>.contentDeepToString(): String {\n  definedExternally\n}\n\n/**\n * Returns `true`
if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same
elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.1")\n@library("arrayEquals")\npublic actual infix fun <T> Array<out
T>.contentEquals(other: Array<out T>): Boolean {\n  definedExternally\n}\n\n/**\n * Returns `true` if the two
specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the
same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating
point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.1")\n@library("arrayEquals")\npublic actual infix fun ByteArray.contentEquals(other:
ByteArray): Boolean {\n  definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally*
equal to one
another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are
compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is
equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.1")\n@library("arrayEquals")\npublic actual infix fun ShortArray.contentEquals(other: ShortArray): Boolean {\n  definedExternally\n}\n\n/**\n * Returns
`true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the
same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.1")\n@library("arrayEquals")\npublic actual infix fun IntArray.contentEquals(other:
IntArray): Boolean {\n  definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
*structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
*\n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.1")\n@library("arrayEquals")\npublic actual infix fun LongArray.contentEquals(other:
LongArray): Boolean {\n  definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
*structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
*\n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.1")\n@library("arrayEquals")\npublic
actual infix fun FloatArray.contentEquals(other: FloatArray): Boolean {\n  definedExternally\n}\n\n/**\n *
Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of
the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.1")\n@library("arrayEquals")\npublic actual infix fun DoubleArray.contentEquals(other:
DoubleArray): Boolean {\n  definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
*structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
*\n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it

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means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

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*\n@SinceKotlin("1.1")\n@library("arrayEquals")\npublic
```

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actual infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order. The elements are compared for equality with the [equals][Any.equals] function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
```

```
*\n@SinceKotlin("1.1")\n@library("arrayEquals")\npublic actual infix fun CharArray.contentEquals(other:
```

```
CharArray): Boolean {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].
```

```
*\n@SinceKotlin("1.1")\n@library("arrayHashCode")\npublic actual fun <T> Array<out T>.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].
```

```
*\n@SinceKotlin("1.1")\n@library("arrayHashCode")\npublic actual fun ByteArray.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].
```

```
*\n@SinceKotlin("1.1")\n@library("arrayHashCode")\npublic actual fun ShortArray.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].
```

```
*\n@SinceKotlin("1.1")\n@library("arrayHashCode")\npublic actual fun IntArray.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].
```

```
*\n@SinceKotlin("1.1")\n@library("arrayHashCode")\npublic actual fun LongArray.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].
```

```
*\n@SinceKotlin("1.1")\n@library("arrayHashCode")\npublic actual fun FloatArray.contentHashCode(): Int {\n
```

```
    definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].
```

```
*\n@SinceKotlin("1.1")\n@library("arrayHashCode")\npublic actual fun DoubleArray.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].
```

```
*\n@SinceKotlin("1.1")\n@library("arrayHashCode")\npublic actual fun BooleanArray.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].
```

```
*\n@SinceKotlin("1.1")\n@library("arrayHashCode")\npublic actual fun CharArray.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].
```

```
*\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.1")\n@library("arrayToString")\npublic actual fun <T> Array<out T>.contentToString():
```

```
String {\n
```

```
    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].
```

```
*\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.1")\n@library("arrayToString")\npublic actual fun ByteArray.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].
```

```
*\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.1")\n@library("arrayToString")\npublic actual fun ShortArray.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].
```

```
*\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.1")\n@library("arrayToString")\npublic actual fun IntArray.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns
```

```
a string representation of the contents of the specified array as if it is [List].
```

```
*\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.1")\n@library("arrayToString")\npublic actual fun LongArray.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].
```

```
*\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.1")\n@library("arrayToString")\npublic actual fun FloatArray.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].
```

```
*\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```

*\n@SinceKotlin("1.1")\n@library("arrayToString")\npublic actual fun DoubleArray.contentToString(): String
{\n    definedExternally\n}\n\n/**\n * Returns a string representation of the
contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.1")\n@library("arrayToString")\npublic actual fun BooleanArray.contentToString(): String
{\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.1")\n@library("arrayToString")\npublic actual fun CharArray.contentToString(): String {\n
definedExternally\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that
array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it
overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset
the position in the [destination] array to copy to, 0 by default.\n * @param startIndex
the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the
subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n
*\n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
_ARGUMENTS")\npublic actual inline fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset:
Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T> {\n    arrayCopy(this, destination, destinationOffset,
startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or
its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the
[destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param
destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by
default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param
endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this
array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange
doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of
the [destination] array indices range.\n * \n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
_ARGUMENTS")\npublic
actual inline fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0,
endIndex: Int = size): ByteArray {\n    arrayCopy(this.unsafeCast<Array<Byte>>(),
destination.unsafeCast<Array<Byte>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n
* Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass
the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n
* @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to
copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n *
@param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException
or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when
`startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the
[destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination]
array indices range.\n * \n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
_ARGUMENTS")\npublic actual inline fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int =

```

```

0, startIndex: Int = 0, endIndex: Int = size): ShortArray {
    arrayCopy(this.unsafeCast<Array<Short>>(),
destination.unsafeCast<Array<Short>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n
 * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the
same array in the [destination] and even specify
the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n *
@param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the
beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the
subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n *
\n * @return the [destination] array.\n
\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
_ARGUMENTS")\npublic actual inline fun IntArray.copyInto(destination: IntArray,
destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray {
    arrayCopy(this.unsafeCast<Array<Int>>(), destination.unsafeCast<Array<Int>>(), destinationOffset, startIndex,
endIndex)\n    return destination\n}\n\n/**\n
 * Copies this array or its subrange into the [destination] array and
returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so
that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param
destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the
beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the
subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException
when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when
that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
_ARGUMENTS")\npublic actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): LongArray {
    arrayCopy(this.unsafeCast<Array<Long>>(),
destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n
 * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the
same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n *
@param destination the array to copy to.\n * @param destinationOffset the position in the
[destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to
copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n
 * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out
of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index
is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
_ARGUMENTS")\npublic actual inline fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): FloatArray {
    arrayCopy(this.unsafeCast<Array<Float>>(),
destination.unsafeCast<Array<Float>>(),
destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n
 * Copies this array or its subrange into
the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even
specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy
to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param
startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive)

```

of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n

```

*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray {\n    arrayCopy(this.unsafeCast<Array<Double>>(), destination.unsafeCast<Array<Double>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
```

```

*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray {\n    arrayCopy(this.unsafeCast<Array<Boolean>>(), destination.unsafeCast<Array<Boolean>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
```

```

*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray {\n    arrayCopy(this.unsafeCast<Array<Char>>(), destination.unsafeCast<Array<Char>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n *\n@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\npublic actual inline fun <T> Array<out T>.copyOf(): Array<T> {\n    return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun ByteArray.copyOf(): ByteArray {\n    return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n
```

```

*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun ShortArray.copyOf(): ShortArray {\n    return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n *

```

```

@sample samples.collections.Arrays.CopyOfOperations.copyOfOf
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun IntArray.copyOf(): IntArray {\n  return
this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\npublic actual fun LongArray.copyOf(): LongArray {\n
return withType("LongArray", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the
original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun FloatArray.copyOf(): FloatArray {\n
  return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n *
@sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun DoubleArray.copyOf(): DoubleArray {\n
return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n *
@sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\npublic actual fun BooleanArray.copyOf():
BooleanArray {\n  return withType("BooleanArray", this.asDynamic().slice())\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\npublic actual fun CharArray.copyOf(): CharArray {\n  return withType("CharArray",
this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given
[newSize].\n * The copy is either truncated or padded at the end with zero
values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to
the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*\npublic actual fun ByteArray.copyOf(newSize: Int): ByteArray {\n  require(newSize >= 0) { "Invalid new array
size: $newSize." }\n  return fillFrom(this, ByteArray(newSize))\n}\n\n/**\n * Returns new array which is a copy
of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero
values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to
the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*\npublic actual fun ShortArray.copyOf(newSize: Int): ShortArray {\n  require(newSize >= 0) { "Invalid new
array size: $newSize." }\n  return fillFrom(this, ShortArray(newSize))\n}\n\n/**\n * Returns new array which is a
copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with
zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated
to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array
are filled with zero values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic actual fun
IntArray.copyOf(newSize: Int): IntArray {\n  require(newSize >= 0) { "Invalid new array size: $newSize." }\n
return fillFrom(this, IntArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of
the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero
values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to
the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*\npublic actual fun LongArray.copyOf(newSize: Int): LongArray {\n  require(newSize >= 0) { "Invalid new
array size: $newSize." }\n  return withType("LongArray", arrayCopyResize(this, newSize, 0L))\n}\n\n/**\n *
Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either
truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the
original array, the copy array is truncated to the [newSize].\n * - If [newSize]
is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n *
@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic actual fun
FloatArray.copyOf(newSize: Int): FloatArray {\n  require(newSize >= 0) { "Invalid new array size: $newSize."
}\n  return fillFrom(this, FloatArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original

```



```

toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
@param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the
range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun LongArray.copyOfRange(fromIndex:
Int, toIndex: Int): LongArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return
withType("LongArray", this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a
copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must
be in `0..array.size`\n
* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun
FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray {\n
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex,
toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
@param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the
range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun DoubleArray.copyOfRange(fromIndex:
Int, toIndex: Int): DoubleArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return
this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range
of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n *
@param toIndex the end of the range
(exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun BooleanArray.copyOfRange(fromIndex: Int,
toIndex: Int): BooleanArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return
withType("BooleanArray", this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which
is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive),
must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n
*/\npublic actual fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray {\n
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return withType("CharArray",
this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the specified
[element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the
end of the range (exclusive),
size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or
[toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n
*/\n\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size
of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n
*/\n\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size
of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n
*/\n\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit {\n

```

```

AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n
  this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified
[element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the
end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentExcepion if [fromIndex] is greater than [toIndex].\n
*\n\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic
actual fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range
(exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than
zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentExcepion if [fromIndex] is
greater than [toIndex].\n
*\n\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic
actual fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size
of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentExcepion if [fromIndex] is greater than
[toIndex].\n
*\n\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic
actual fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size
of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentExcepion if [fromIndex] is greater than
[toIndex].\n
*\n\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic
actual fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n
  this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the
specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param
toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentExcepion if [fromIndex] is greater than [toIndex].\n
*\n\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic
actual fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end
of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex]
is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentExcepion if
[fromIndex] is greater than [toIndex].\n
*\n\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic
actual fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {\n

```

`AbstractList.checkRangeIndexes(fromIndex, toIndex, size)`  
`this.asDynamic().fill(element, fromIndex, toIndex);`

`Array<T>.plus(element: T): Array<T>` {  
 return  
 this.asDynamic().concat(arrayOf(element))
}

`ByteArray.plus(element: Byte): ByteArray` {  
 return  
 plus(byteArrayOf(element))
}

`ShortArray.plus(element: Short): ShortArray` {  
 return plus(shortArrayOf(element))
}

`IntArray.plus(element: Int): IntArray` {  
 return plus(intArrayOf(element))
}

`LongArray.plus(element: Long): LongArray` {  
 return plus(longArrayOf(element))
}

`FloatArray.plus(element: Float): FloatArray` {  
 return plus(floatArrayOf(element))
}

`DoubleArray.plus(element: Double): DoubleArray` {  
 return plus(doubleArrayOf(element))
}

`BooleanArray.plus(element: Boolean): BooleanArray` {  
 return  
 plus(booleanArrayOf(element))
}

`CharArray.plus(element: Char): CharArray` {  
 return plus(charArrayOf(element))
}

`Array<T>.plus(elements: Collection<T>): Array<T>` {  
 return arrayPlusCollection(this, elements)
}

`ByteArray.plus(elements: Collection<Byte>): ByteArray` {  
 return  
 fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}

`ShortArray.plus(elements: Collection<Short>): ShortArray` {  
 return  
 fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}

`IntArray.plus(elements: Collection<Int>): IntArray` {  
 return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}

`LongArray.plus(elements: Collection<Long>): LongArray` {  
 return arrayPlusCollection(this, elements)
}

`FloatArray.plus(elements: Collection<Float>): FloatArray` {  
 return  
 fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}

`DoubleArray.plus(elements: Collection<Double>): DoubleArray` {  
 return  
 fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}

all elements of the original array and then all elements of the given [elements] collection.

```

public actual operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray {
    return arrayPlusCollection(this, elements)
}

```

\* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

```

public actual operator fun CharArray.plus(elements: Collection<Char>): CharArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}

```

\* Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")
public actual inline operator fun <T> Array<out T>.plus(elements: Array<out T>): Array<T> {
    return this.asDynamic().concat(elements)
}

```

\* Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun ByteArray.plus(elements: ByteArray): ByteArray {
    return primitiveArrayConcat(this, elements)
}

```

\* Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun ShortArray.plus(elements: ShortArray): ShortArray {
    return primitiveArrayConcat(this, elements)
}

```

\* Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun IntArray.plus(elements: IntArray): IntArray {
    return primitiveArrayConcat(this, elements)
}

```

\* Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun LongArray.plus(elements: LongArray): LongArray {
    return primitiveArrayConcat(this, elements)
}

```

\* Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun FloatArray.plus(elements: FloatArray): FloatArray {
    return primitiveArrayConcat(this, elements)
}

```

\* Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray {
    return primitiveArrayConcat(this, elements)
}

```

\* Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray {
    return primitiveArrayConcat(this, elements)
}

```

\* Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun CharArray.plus(elements: CharArray): CharArray {
    return primitiveArrayConcat(this, elements)
}

```

\* Returns an array containing all elements of the original array and then the given [element].

```

@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")
public actual inline fun <T> Array<out T>.plusElement(element: T): Array<T> {
    return this.asDynamic().concat(arrayOf(element))
}

```

\* Sorts the array in-place.

```

@sample
samples.collections.Arrays.Sorting.sortArray

```

\* @library("primitiveArraySort")

```

public actual fun IntArray.sort(): Unit {
    definedExternally
}

```

\* Sorts the array in-place.

```

@sample
samples.collections.Arrays.Sorting.sortArray

```

\* @library("primitiveArraySort")

```

public actual fun LongArray.sort(): Unit {
    if (size > 1) sort {
        a: Long, b: Long -> a.compareTo(b)
    }
}

```

\* Sorts the array in-place.

```

@sample
samples.collections.Arrays.Sorting.sortArray

```

\* @library("primitiveArraySort")

```

public actual fun ByteArray.sort(): Unit {
    definedExternally
}

```

\* Sorts the array in-place.

```

@sample
samples.collections.Arrays.Sorting.sortArray

```

\* @library("primitiveArraySort")

```

public actual fun ShortArray.sort(): Unit {
    definedExternally
}

```

\* Sorts the array in-place.

```

@sample
samples.collections.Arrays.Sorting.sortArray

```

\* @library("primitiveArraySort")

```

public actual fun DoubleArray.sort(): Unit {
    definedExternally
}

```

\* Sorts the array in-place.

samples.collections.Arrays.Sorting.sortArray\n \*^@library(\\"primitiveArraySort\\")\npublic  
 actual fun FloatArray.sort(): Unit {\n definedExternally\n}\n\n/\*\*\n \* Sorts the array in-place.\n \* \n \* @sample  
 samples.collections.Arrays.Sorting.sortArray\n \*^@library(\\"primitiveArraySort\\")\npublic actual fun  
 CharArray.sort(): Unit {\n definedExternally\n}\n\n/\*\*\n \* Sorts the array in-place according to the natural order  
 of its elements.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other  
 after sorting.\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n \*^@public actual fun  
 <T : Comparable<T>> Array<out T>.sort(): Unit {\n if (size > 1) sortArray(this)\n}\n\n/\*\*\n \* Sorts the array in-  
 place according to the order specified by the given [comparison] function.\n \* \n \* The sort is `_stable_`. It means that  
 equal elements preserve their order relative to each other after sorting.\n \*^@public fun <T> Array<out  
 T>.sort(comparison: (a: T, b: T) -> Int): Unit {\n if (size > 1) sortArrayWith(this,  
 comparison)\n}\n\n/\*\*\n \* Sorts the array in-place according to the order specified by the given [comparison]  
 function.\n \*^@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sort(noinline comparison: (a: Byte, b:  
 Byte) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/\*\*\n \* Sorts the array in-place according to the order  
 specified by the given [comparison] function.\n \*^@kotlin.internal.InlineOnly\npublic inline fun  
 ShortArray.sort(noinline comparison: (a: Short, b: Short) -> Int): Unit {\n  
 asDynamic().sort(comparison)\n}\n\n/\*\*\n \* Sorts the array in-place according to the order specified by the given  
 [comparison] function.\n \*^@kotlin.internal.InlineOnly\npublic inline fun IntArray.sort(noinline comparison: (a:  
 Int, b: Int) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/\*\*\n \* Sorts the array in-place according to the  
 order specified by the given [comparison] function.\n \*^@kotlin.internal.InlineOnly\npublic inline fun  
 LongArray.sort(noinline  
 comparison: (a: Long, b: Long) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/\*\*\n \* Sorts the array in-  
 place according to the order specified by the given [comparison] function.\n \*^@kotlin.internal.InlineOnly\npublic  
 inline fun FloatArray.sort(noinline comparison: (a: Float, b: Float) -> Int): Unit {\n  
 asDynamic().sort(comparison)\n}\n\n/\*\*\n \* Sorts the array in-place according to the order specified by the given  
 [comparison] function.\n \*^@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sort(noinline comparison:  
 (a: Double, b: Double) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/\*\*\n \* Sorts the array in-place  
 according to the order specified by the given [comparison] function.\n \*^@kotlin.internal.InlineOnly\npublic  
 inline fun CharArray.sort(noinline comparison: (a: Char, b: Char) -> Int): Unit {\n  
 asDynamic().sort(comparison)\n}\n\n/\*\*\n \* Sorts the array in-place according to the order specified by the given  
 [comparator].\n  
 \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n  
 \*^@public actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit {\n if (size > 1)  
 sortArrayWith(this, comparator)\n}\n\n/\*\*\n \* Returns a `*typed*` object array containing all of the elements of this  
 primitive array.\n \*^@public actual fun ByteArray.toTypedArray(): Array<Byte> {\n return  
 js("\\[\\]").slice.call(this)\n}\n\n/\*\*\n \* Returns a `*typed*` object array containing all of the elements of this primitive  
 array.\n \*^@public actual fun ShortArray.toTypedArray(): Array<Short> {\n return  
 js("\\[\\]").slice.call(this)\n}\n\n/\*\*\n \* Returns a `*typed*` object array containing all of the elements of this primitive  
 array.\n \*^@public actual fun IntArray.toTypedArray(): Array<Int> {\n return js("\\[\\]").slice.call(this)\n}\n\n/\*\*\n  
 \* Returns a `*typed*` object array containing all of the elements of this primitive array.\n \*^@public actual fun  
 LongArray.toTypedArray():  
 Array<Long> {\n return js("\\[\\]").slice.call(this)\n}\n\n/\*\*\n \* Returns a `*typed*` object array containing all of the  
 elements of this primitive array.\n \*^@public actual fun FloatArray.toTypedArray(): Array<Float> {\n return  
 js("\\[\\]").slice.call(this)\n}\n\n/\*\*\n \* Returns a `*typed*` object array containing all of the elements of this primitive  
 array.\n \*^@public actual fun DoubleArray.toTypedArray(): Array<Double> {\n return  
 js("\\[\\]").slice.call(this)\n}\n\n/\*\*\n \* Returns a `*typed*` object array containing all of the elements of this primitive  
 array.\n \*^@public actual fun BooleanArray.toTypedArray(): Array<Boolean> {\n return  
 js("\\[\\]").slice.call(this)\n}\n\n/\*\*\n \* Returns a `*typed*` object array containing all of the elements of this primitive  
 array.\n \*^@public actual fun CharArray.toTypedArray(): Array<Char> {\n return Array(size) { index ->



```

samples.comparisons.Comparisons.compareByDescendingWithSingleSelector
*/@kotlin.internal.InlineOnly\npublic inline fun <T> compareByDescending(crossinline selector: (T) ->
Comparable<*>?): Comparator<T> =\n    Comparator { a, b -> compareValuesBy(b, a, selector) }\n\n/**\n *
Creates
a descending comparator using the [selector] function to transform values being compared and then applying
the specified [comparator] to compare transformed values.\n * Note that an order of [comparator] is reversed by this
wrapper.\n * @sample samples.comparisons.Comparisons.compareByDescendingWithComparator
*/@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareByDescending(comparator: Comparator<in K>,
crossinline selector: (T) -> K): Comparator<T> =\n    Comparator { a, b -> compareValuesBy(b, a, comparator,
selector) }\n\n/**\n * Creates a comparator comparing values after the primary comparator defined them equal. It
uses
the function to transform value to a [Comparable] instance for comparison.\n * @sample
samples.comparisons.Comparisons.thenBy
*/@kotlin.internal.InlineOnly\npublic inline fun <T>
Comparator<T>.thenBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n    Comparator { a, b -
>\n        val previousCompare = this@thenBy.compare(a,
b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(a, b, selector)\n    }\n\n/**\n * Creates
a comparator comparing values after the primary comparator defined them equal. It uses
the [selector] function
to transform values and then compares them with the given [comparator].\n * @sample
samples.comparisons.Comparisons.thenByWithComparator
*/@kotlin.internal.InlineOnly\npublic inline fun <T,
K> Comparator<T>.thenBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n
Comparator { a, b ->\n    val previousCompare = this@thenBy.compare(a, b)\n    if (previousCompare != 0)
previousCompare else compareValuesBy(a, b, comparator, selector)\n }\n\n/**\n * Creates a descending
comparator using the primary comparator and
the function to transform value to a [Comparable] instance for
comparison.\n * @sample samples.comparisons.Comparisons.thenByDescending
*/@kotlin.internal.InlineOnly\npublic
inline fun <T> Comparator<T>.thenByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T>
=\n    Comparator { a, b ->\n        val previousCompare = this@thenByDescending.compare(a, b)\n        if
(previousCompare != 0) previousCompare else compareValuesBy(b, a, selector)\n    }\n\n/**\n * Creates a
descending comparator comparing values after the primary comparator defined them equal. It uses
the [selector]
function to transform values and then compares them with the given [comparator].\n * @sample
samples.comparisons.Comparisons.thenByDescendingWithComparator
*/@kotlin.internal.InlineOnly\npublic
inline fun <T, K> Comparator<T>.thenByDescending(comparator: Comparator<in K>, crossinline selector: (T) ->
K): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@thenByDescending.compare(a,
b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(b, a, comparator, selector)\n    }\n\n\n/**\n * Creates a comparator
using the primary comparator and function to calculate a result of comparison.\n * @sample
samples.comparisons.Comparisons.thenComparator
*/@kotlin.internal.InlineOnly\npublic inline fun <T>
Comparator<T>.thenComparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> =\n    Comparator { a,
b ->\n        val previousCompare = this@thenComparator.compare(a, b)\n        if (previousCompare != 0)
previousCompare else comparison(a, b)\n    }\n\n/**\n * Combines this comparator and the given [comparator] such
that the latter is applied only
when the former considered values equal.\n * @sample
samples.comparisons.Comparisons.then
*/@kotlin.internal.InlineOnly\npublic infix fun <T> Comparator<T>.then(comparator:
Comparator<in T>): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare =
this@then.compare(a, b)\n        if (previousCompare != 0) previousCompare else comparator.compare(a, b)\n    }\n\n\n/**\n * Combines this comparator and the given [comparator] such that the latter
is applied only
when the former considered values equal.\n * @sample
samples.comparisons.Comparisons.thenDescending
*/@kotlin.internal.InlineOnly\npublic infix fun <T>
Comparator<T>.thenDescending(comparator: Comparator<in T>): Comparator<T> =\n    Comparator<T> { a, b -
>\n        val previousCompare = this@thenDescending.compare(a, b)\n        if (previousCompare != 0)

```

```

previousCompare else comparator.compare(b, a)\n    }\n\n// Not so useful without type inference for receiver of
expression\n\n/**\n * Extends the given [comparator] of non-nullable values to a comparator of nullable values\n *
considering `null` value less than any other value.\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\npublic fun <T : Any>
nullsFirst(comparator: Comparator<in T>): Comparator<T?> =\n    Comparator { a, b ->\n        when {\n            a
=== b -> 0\n            a == null -> -1\n            b == null -> 1\n            else -> comparator.compare(a, b)\n        }\n    }\n\n/**\n *
Provides a comparator of nullable [Comparable] values\n * considering `null` value less than any other value.\n *\n *
@sample samples.comparisons.Comparisons.nullsFirstLastComparator\n */\n@kotlin.internal.InlineOnly\npublic
inline fun <T : Comparable<T>> nullsFirst(): Comparator<T?> = nullsFirst(naturalOrder())\n\n/**\n * Extends the
given [comparator] of non-nullable values to a comparator of nullable values\n * considering `null` value greater
than any other value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\n
*/\npublic fun <T : Any> nullsLast(comparator: Comparator<in T>): Comparator<T?> =\n    Comparator { a, b ->\n
        when {\n            a === b -> 0\n            a == null -> 1\n            b == null -> -1\n            else ->
comparator.compare(a, b)\n        }\n    }\n\n/**\n * Provides a comparator of nullable [Comparable] values\n *
considering `null` value greater than any other value.\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastComparator\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<T>> nullsLast(): Comparator<T?> =
nullsLast(naturalOrder())\n\n/**\n * Returns a comparator that compares [Comparable] objects in natural order.\n
*\n * @sample samples.comparisons.Comparisons.naturalOrderComparator\n */\npublic fun <T : Comparable<T>>
naturalOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST") (NaturalOrderComparator as
Comparator<T>)\n\n/**\n * Returns a comparator that compares [Comparable] objects in reversed natural order.\n
*\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\npublic fun <T :
Comparable<T>> reverseOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST")
(ReverseOrderComparator as Comparator<T>)\n\n/**\n * Returns a comparator that imposes the reverse ordering
of this comparator.\n *\n * @sample samples.comparisons.Comparisons.reversed\n */\npublic fun <T>
Comparator<T>.reversed(): Comparator<T> = when (this) {\n    is ReversedComparator
-> this.comparator\n    NaturalOrderComparator -> @Suppress("UNCHECKED_CAST")
(ReverseOrderComparator as Comparator<T>)\n    ReverseOrderComparator ->
@Suppress("UNCHECKED_CAST") (NaturalOrderComparator as Comparator<T>)\n    else ->
ReversedComparator(this)\n}\n\nprivate class ReversedComparator<T>(public val comparator: Comparator<T>) :
Comparator<T> {\n    override fun compare(a: T, b: T): Int = comparator.compare(b, a)\n
@Suppress("VIRTUAL_MEMBER_HIDDEN")\n    fun reversed(): Comparator<T> = comparator\n}\n\nprivate
object NaturalOrderComparator : Comparator<Comparable<Any>> {\n    override fun compare(a:
Comparable<Any>, b: Comparable<Any>): Int = a.compareTo(b)\n
@Suppress("VIRTUAL_MEMBER_HIDDEN")\n    fun reversed(): Comparator<Comparable<Any>> =
ReverseOrderComparator\n}\n\nprivate object ReverseOrderComparator : Comparator<Comparable<Any>> {\n
override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = b.compareTo(a)\n
@Suppress("VIRTUAL_MEMBER_HIDDEN")\n
fun reversed(): Comparator<Comparable<Any>> = NaturalOrderComparator\n}\n\n"/**\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\npublic actual
interface Comparator<T> {\n    @JsName("compare")\n    actual fun compare(a: T, b: T): Int\n}\n\npublic actual
inline fun <T> Comparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> = object : Comparator<T>
{\n    override fun compare(a: T, b: T): Int = comparison(a, b)\n}\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StandardKt")\npackage kotlin\n\nimport

```

```

kotlin.contracts.*\n\n**\n * An exception
is thrown to indicate that a method body remains to be implemented.\n *\npublic class
NotImplementedError(message: String = \"An operation is not implemented.\") : Error(message)\n\n**\n * Always
throws [NotImplementedError] stating that operation is not implemented.\n
*\n\n@kotlin.internal.InlineOnly\npublic inline fun TODO(): Nothing = throw NotImplementedError()\n\n**\n *
Always throws [NotImplementedError] stating that operation is not implemented.\n *\n * @param reason a string
explaining why the implementation is missing.\n *\n@kotlin.internal.InlineOnly\npublic inline fun TODO(reason:
String): Nothing = throw NotImplementedError(\"An operation is not implemented: $reason\")\n\n\n**\n * Calls
the specified function [block] and returns its result.\n *\n * For detailed usage information see the documentation for
[scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n
*\n\n@kotlin.internal.InlineOnly\npublic inline fun <R> run(block: () -> R):
R {\n  contract {\n    callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n  return
block()\n}\n\n**\n * Calls the specified function [block] with `this` value as its receiver and returns its result.\n *\n
* For detailed usage information see the documentation for [scope
functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n
*\n\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> T.run(block: T.() -> R): R {\n  contract {\n
callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n  return block()\n}\n\n**\n * Calls the specified
function [block] with the given [receiver] as its receiver and returns its result.\n *\n * For detailed usage information
see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#with).\n
*\n\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> with(receiver: T, block: T.() -> R): R {\n  contract {\n
callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n
return receiver.block()\n}\n\n**\n * Calls the specified function [block] with `this` value as its receiver and
returns `this` value.\n *\n * For detailed usage information see the documentation for [scope
functions](https://kotlinlang.org/docs/reference/scope-functions.html#apply).\n
*\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> T.apply(block: T.() -> Unit): T {\n  contract {\n
callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n  block()\n  return this\n}\n\n**\n * Calls the
specified function [block] with `this` value as its argument and returns `this` value.\n *\n * For detailed usage
information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-
functions.html#also).\n *\n\n@kotlin.internal.InlineOnly\n@SinceKotlin(\"1.1\")\npublic inline fun <T>
T.also(block: (T) -> Unit): T {\n  contract {\n    callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n
block(this)\n  return this\n}\n\n**\n * Calls
the specified function [block] with `this` value as its argument and returns its result.\n *\n * For detailed usage
information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-
functions.html#let).\n *\n\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> T.let(block: (T) -> R): R {\n
contract {\n  callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n  return block(this)\n}\n\n**\n *
Returns `this` value if it satisfies the given [predicate] or `null`, if it doesn't.\n
*\n\n@kotlin.internal.InlineOnly\n@SinceKotlin(\"1.1\")\npublic inline fun <T> T.takeIf(predicate: (T) -> Boolean):
T? {\n  contract {\n    callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\n  }\n  return if
(predicate(this)) this else null\n}\n\n**\n * Returns `this` value if it _does not_ satisfy the given [predicate] or
`null`, if it does.\n *\n\n@kotlin.internal.InlineOnly\n@SinceKotlin(\"1.1\")\npublic inline fun <T>
T.takeUnless(predicate: (T) ->
Boolean): T? {\n  contract {\n    callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\n  }\n  return if
(!predicate(this)) this else null\n}\n\n**\n * Executes the given function [action] specified number of [times].\n *\n
* A zero-based index of current iteration is passed as a parameter to [action].\n *\n * @sample
samples.misc.ControlFlow.repeat\n *\n\n@kotlin.internal.InlineOnly\npublic inline fun repeat(times: Int, action: (Int)
-> Unit) {\n  contract { callsInPlace(action) }\n  for (index in 0 until times) {\n    action(index)\n
}\n}\n\n**\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

```

```

*\n\npackage kotlin.comparisons\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the
GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport
kotlin.js.*\n\n/**\n *
Returns the greater of two values.\n * If values are equal, returns the first one.\n * \n@SinceKotlin("1.1")\n\npublic
actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the
greater of two values.\n
*\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\n@Suppress("DEPRECATION_ERROR")\n\npublic actual
inline fun maxOf(a: Byte, b: Byte): Byte {\n    return Math.max(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n
* Returns the greater of two values.\n
*\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\n@Suppress("DEPRECATION_ERROR")\n\npublic actual
inline fun maxOf(a: Short, b: Short): Short {\n    return Math.max(a.toInt(),
b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\n@Suppress("DEPRECATION_ERROR")\n\npublic actual
inline fun maxOf(a: Int, b: Int): Int {\n    return Math.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.1")\n\n@Suppress("DEPRECATION_ERROR", "NOTHING_TO_INLINE")\n\npublic
actual inline fun maxOf(a: Long, b: Long): Long {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of
two values.\n
*\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\n@Suppress("DEPRECATION_ERROR")\n\npublic actual
inline fun maxOf(a: Float, b: Float): Float {\n    return Math.max(a, b)\n}\n\n/**\n * Returns the greater of two
values.\n
*\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\n@Suppress("DEPRECATION_ERROR")\n\npublic actual
inline fun maxOf(a: Double, b: Double): Double {\n    return Math.max(a, b)\n}\n\n/**\n * Returns the greater of
three values.\n * \n@SinceKotlin("1.1")\n\npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T {\n
    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n
*\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\n@Suppress("DEPRECATION_ERROR")\n\npublic actual
inline fun maxOf(a: Byte,
b: Byte, c: Byte): Byte {\n    return Math.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n
* Returns the greater of three values.\n
*\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\n@Suppress("DEPRECATION_ERROR")\n\npublic actual
inline fun maxOf(a: Short, b: Short, c: Short): Short {\n    return Math.max(a.toInt(), b.toInt(),
c.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of three values.\n
*\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\n@Suppress("DEPRECATION_ERROR")\n\npublic actual
inline fun maxOf(a: Int, b: Int, c: Int): Int {\n    return Math.max(a, b, c)\n}\n\n/**\n * Returns the greater of three
values.\n * \n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic actual inline fun maxOf(a: Long, b: Long,
c: Long): Long {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n
*\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\n@Suppress("DEPRECATION_ERROR")\n\npublic actual
inline fun maxOf(a:
Float, b: Float, c: Float): Float {\n    return Math.max(a, b, c)\n}\n\n/**\n * Returns the greater of three values.\n
*\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\n@Suppress("DEPRECATION_ERROR")\n\npublic actual
inline fun maxOf(a: Double, b: Double, c: Double): Double {\n    return Math.max(a, b, c)\n}\n\n/**\n * Returns the
smaller of two values.\n * If values are equal, returns the first one.\n * \n@SinceKotlin("1.1")\n\npublic actual fun
<T : Comparable<T>> minOf(a: T, b: T): T {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two
values.\n
*\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\n@Suppress("DEPRECATION_ERROR")\n\npublic actual
inline fun minOf(a: Byte, b: Byte): Byte {\n    return Math.min(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n
* Returns the smaller of two values.\n
*\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\n@Suppress("DEPRECATION_ERROR")\n\npublic actual
inline fun minOf(a: Short, b: Short): Short

```



```

*  

public operator fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.contains(element: T): Boolean {  

    if (this is Collection)  

        return contains(element)  

    return indexOf(element) >= 0  

} // Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this collection.  

@sample samples.collections.Collections.Elements.elementAt  

public fun <T> Iterable<T>.elementAt(index: Int): T {  

    if (this is List)  

        return get(index)  

    return elementAtOrElse(index) { throw IndexOutOfBoundsException("Collection doesn't contain element at index $index.") }  

} // Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this list.  

@sample samples.collections.Collections.Elements.elementAt  

@kotlin.internal.InlineOnly  

public inline fun <T> List<T>.elementAt(index: Int): T {  

    return get(index)  

} // Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this collection.  

@sample samples.collections.Collections.Elements.elementAtOrElse  

public fun <T> Iterable<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {  

    if (this is List)  

        return this.getOrElse(index, defaultValue)  

    if (index < 0)  

        return defaultValue(index)  

    val iterator = iterator()  

    var count = 0  

    while (iterator.hasNext()) {  

        val element = iterator.next()  

        if (index == count++)  

            return element  

    }  

    return defaultValue(index)  

} // Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this list.  

@sample samples.collections.Collections.Elements.elementAtOrElse  

@kotlin.internal.InlineOnly  

public inline fun <T> List<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {  

    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)  

} // Returns an element at the given [index] or `null` if the [index] is out of bounds of this collection.  

@sample samples.collections.Collections.Elements.elementAtOrNull  

public fun <T> Iterable<T>.elementAtOrNull(index: Int): T? {  

    if (this is List)  

        return this.getOrNull(index)  

    if (index < 0)  

        return null  

    val iterator = iterator()  

    var count = 0  

    while (iterator.hasNext()) {  

        val element = iterator.next()  

        if (index == count++)  

            return element  

    }  

    return null  

} // Returns an element at the given [index] or `null` if the [index] is out of bounds of this list.  

@sample samples.collections.Collections.Elements.elementAtOrNull  

@kotlin.internal.InlineOnly  

public inline fun <T> List<T>.elementAtOrNull(index: Int): T? {  

    return this.getOrNull(index)  

} // Returns the first element matching the given [predicate], or `null` if no such element was found.  

@kotlin.internal.InlineOnly  

public inline fun <T> Iterable<T>.find(predicate: (T) -> Boolean): T? {  

    return firstOrNull(predicate)  

} // Returns the last element matching the given [predicate], or `null` if no such element was found.  

@kotlin.internal.InlineOnly  

public inline fun <T> Iterable<T>.findLast(predicate: (T) -> Boolean): T? {  

    return lastOrNull(predicate)  

} // Returns the last element matching the given [predicate], or `null` if no such element was found.  

@kotlin.internal.InlineOnly  

public inline fun <T> List<T>.findLast(predicate: (T) -> Boolean): T? {  

    return lastOrNull(predicate)  

} // Returns first element.  

@throws [NoSuchElementException] if the collection is empty.  

public fun <T> Iterable<T>.first(): T {  

    when (this) {  

        is List -> return this.first()  

        else -> {  

            val iterator = iterator()  

            if (!iterator.hasNext())  

                throw NoSuchElementException("Collection is empty.")  

            return iterator.next()  

        }  

    }  

} // Returns first element.  

@throws [NoSuchElementException] if the list is empty.  

public fun <T> List<T>.first(): T {  

    if (isEmpty())  

        throw NoSuchElementException("List is empty.")  

    return this[0]  

} // Returns the first element matching the given [predicate].  

@throws [NoSuchElementException] if no such element is found.  

public inline fun <T> Iterable<T>.first(predicate: (T) -> Boolean): T {  

    for (element in this) if (predicate(element)) return element  

    throw NoSuchElementException("Collection contains no element matching the predicate.")  

} // Returns the first element, or `null` if the collection is empty.  

public fun <T> Iterable<T>.firstOrNull(): T? {  

    when (this) {  

        is List -> {  

            if (isEmpty())  

                return null  

            else  

                return this[0]  

        }  

    }  

}

```



```

last index of [element], or -1 if the collection does not contain element.\n */\npublic fun
<@kotlin.internal.OnlyInputTypes T> Iterable<T>.lastIndexOf(element: T): Int {\n  if (this is List) return
this.lastIndexOf(element)\n  var lastIndex = -1\n  var index = 0\n  for (item in this) {\n
checkIndexOverflow(index)\n    if (element == item)\n      lastIndex = index\n      index++\n  }\n  return
lastIndex\n}\n\n/**\n * Returns last index of [element], or -1 if the list does not contain element.\n
*/\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.lastIndexOf(element: T): Int {\n  return
lastIndexOf(element)\n}\n\n/**\n * Returns the last element, or `null` if the collection is empty.\n */\npublic fun
<T> Iterable<T>.lastOrNull(): T? {\n  when (this) {\n    is List -> return if (isEmpty()) null else this[size - 1]\n
else -> {\n
    val iterator = iterator()\n    if (!iterator.hasNext())\n      return null\n    var last =
iterator.next()\n    while (iterator.hasNext())\n      last = iterator.next()\n    return last\n  }\n}\n}\n\n/**\n * Returns the last element, or `null` if the list is empty.\n */\npublic fun <T> List<T>.lastOrNull(): T?
{\n  return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n */\npublic inline fun <T> Iterable<T>.lastOrNull(predicate:
(T) -> Boolean): T? {\n  var last: T? = null\n  for (element in this) {\n    if (predicate(element)) {\n      last =
element\n    }\n  }\n  return last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null`
if no such element was found.\n */\npublic inline fun <T> List<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n
val iterator = this.listIterator(size)\n  while (iterator.hasPrevious()) {\n    val element = iterator.previous()\n    if (predicate(element)) return
element\n  }\n  return null\n}\n\n/**\n * Returns a random element from this collection.\n * @throws
NoSuchElementException if this collection is empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.random(): T {\n
return random(Random)\n}\n\n/**\n * Returns a random element from this collection using the specified source of
randomness.\n * @throws NoSuchElementException if this collection is empty.\n */\n@SinceKotlin("1.3")\npublic fun <T> Collection<T>.random(random: Random): T {\n  if (isEmpty())\n    throw NoSuchElementException("Collection is empty.")\n  return elementAt(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this collection, or `null` if this collection is empty.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Collection<T>.randomOrNull(): T? {\n  return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this collection using the specified source of randomness, or `null` if this collection is empty.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <T> Collection<T>.randomOrNull(random:
Random): T? {\n  if (isEmpty())\n    return null\n  return elementAt(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the collection is empty or has more than one element.\n
*/\npublic fun <T> Iterable<T>.single(): T {\n  when (this) {\n    is List -> return this.single()\n    else -> {\n
val iterator = iterator()\n    if (!iterator.hasNext())\n      throw NoSuchElementException("Collection
is empty.")\n    val single = iterator.next()\n    if (iterator.hasNext())\n      throw
IllegalArgumentOutOfRangeException("Collection has more than one element.")\n
    return single\n  }\n}\n}\n\n/**\n * Returns the single element, or throws an exception if the list is
empty or has more than one element.\n */\npublic fun <T> List<T>.single(): T {\n  return when (size) {\n    0 ->
throw NoSuchElementException("List is empty.")\n    1 -> this[0]\n    else -> throw
IllegalArgumentOutOfRangeException("List has more than one element.")\n  }\n}\n\n/**\n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic
inline fun <T> Iterable<T>.single(predicate: (T) -> Boolean): T {\n  var single: T? = null\n  var found = false\n
for (element in this) {\n    if (predicate(element)) {\n      if (found) throw
IllegalArgumentOutOfRangeException("Collection contains more than one matching element.")\n      single = element\n
found = true\n    }\n  }\n  if (!found) throw NoSuchElementException("Collection contains

```

```

no element matching the predicate.\n @Suppress("\UNCHECKED_CAST")\n return single as T\n\n**\n
* Returns single element, or `null` if the collection is empty or has more than one element.\n\npublic fun <T>
Iterable<T>.singleOrNull(): T? {\n when (this) {\n is List -> return if (size == 1) this[0] else null\n else ->
{\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n val single =
iterator.next()\n if (iterator.hasNext())\n return null\n return single\n }\n }\n\n**\n
* Returns single element, or `null` if the list is empty or has more than one element.\n\npublic fun <T>
List<T>.singleOrNull(): T? {\n return if (size == 1) this[0] else null\n\n**\n
* Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n\npublic
inline fun <T> Iterable<T>.singleOrNull(predicate:
(T) -> Boolean): T? {\n var single: T? = null\n var found = false\n for (element in this) {\n if
(predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n
if (!found) return null\n return single\n\n**\n
* Returns a list containing all elements except first [n]
elements.\n\n * @throws IllegalArgumentException if [n] is negative.\n\n * @sample
samples.collections.Collections.Transformations.drop\n\npublic fun <T> Iterable<T>.drop(n: Int): List<T> {\n
require(n >= 0) { "\Requested element count $n is less than zero." }\n if (n == 0) return toList()\n val list:
ArrayList<T>\n if (this is Collection<*>) {\n val resultSize = size - n\n if (resultSize <= 0)\n return
emptyList()\n if (resultSize == 1)\n return listOf(last())\n list = ArrayList<T>(resultSize)\n if
(this is List<T>) {\n
if (this is RandomAccess) {\n for (index in n until size)\n list.add(this[index])\n } else
{\n for (item in listIterator(n))\n list.add(item)\n }\n return list\n }\n }\n
else {\n list = ArrayList<T>()\n }\n var count = 0\n for (item in this) {\n if (count >= n) list.add(item)
else ++count\n }\n return list.optimizeReadOnlyList()\n\n**\n
* Returns a list containing all elements except
last [n] elements.\n\n * @throws IllegalArgumentException if [n] is negative.\n\n * @sample
samples.collections.Collections.Transformations.drop\n\npublic fun <T> List<T>.dropLast(n: Int): List<T> {\n
require(n >= 0) { "\Requested element count $n is less than zero." }\n return take((size -
n).coerceAtLeast(0))\n\n**\n
* Returns a list containing all elements except last elements that satisfy the given
[predicate].\n\n * @sample samples.collections.Collections.Transformations.drop\n\npublic inline fun <T> List<T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n
if (!isEmpty()) {\n
val iterator = listIterator(size)\n while (iterator.hasPrevious()) {\n if (!predicate(iterator.previous())) {\n
return take(iterator.nextIndex() + 1)\n }\n }\n }\n return emptyList()\n\n**\n
* Returns a
list containing all elements except first elements that satisfy the given [predicate].\n\n * @sample
samples.collections.Collections.Transformations.drop\n\npublic inline fun <T> Iterable<T>.dropWhile(predicate:
(T) -> Boolean): List<T> {\n var yielding = false\n val list = ArrayList<T>()\n for (item in this)\n if
(yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n
}\n return list\n\n**\n
* Returns a list containing only elements matching the given
[predicate].\n\npublic inline fun <T> Iterable<T>.filter(predicate: (T) -> Boolean): List<T> {\n return
filterTo(ArrayList<T>(), predicate)\n\n**\n
* Returns a list containing only elements matching the given
[predicate].\n\n * @param [predicate] function that takes the index of an element and the element itself\n\n * and returns
the result of predicate evaluation on the element.\n\npublic inline fun <T> Iterable<T>.filterIndexed(predicate:
(index: Int, T) -> Boolean): List<T> {\n return filterIndexedTo(ArrayList<T>(), predicate)\n\n**\n
* Appends
all elements matching the given [predicate] to the given [destination].\n\n * @param [predicate] function that takes the
index of an element and the element itself\n\n * and returns the result of predicate evaluation on the element.\n\n
public inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterIndexedTo(destination: C, predicate:
(index: Int, T) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index,
element)) destination.add(element)\n }\n return destination\n\n**\n
* Returns a list containing all elements
that are instances of specified type parameter R.\n\npublic inline fun <reified R> Iterable<*>.filterIsInstance():
List<@kotlin.internal.NoInfer R> {\n return filterIsInstanceTo(ArrayList<R>())\n\n**\n
* Appends all
elements that are instances of specified type parameter R to the given [destination].\n\npublic inline fun <reified

```

```

R, C : MutableCollection<in R>> Iterable<*>.filterIsInstanceTo(destination: C): C {\n  for (element in this) if
(element is R) destination.add(element)\n  return destination\n}\n\n/**\n * Returns a list containing all elements
not matching the given [predicate].\n */\npublic inline fun <T> Iterable<T>.filterNot(predicate: (T) -> Boolean):
List<T> {\n  return filterNotTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing all elements that
are not `null`.\n */\npublic fun <T : Any> Iterable<T?>.filterNotNull():
List<T> {\n  return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n * Appends all elements that are not `null` to the
given [destination].\n */\npublic fun <C : MutableCollection<in T>, T : Any>
Iterable<T?>.filterNotNullTo(destination: C): C {\n  for (element in this) if (element != null)
destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not matching the given
[predicate] to the given [destination].\n */\npublic inline fun <T, C : MutableCollection<in T>>
Iterable<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n */\npublic inline fun <T, C : MutableCollection<in T>>
Iterable<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n  for (element in this) if (predicate(element))
destination.add(element)\n  return destination\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun <T>
List<T>.slice(indices: IntRange): List<T> {\n  if (indices.isEmpty()) return listOf()\n  return
this.subList(indices.start, indices.endInclusive + 1).toList()\n}\n\n/**\n * Returns a list containing elements at
specified [indices].\n */\npublic fun <T> List<T>.slice(indices: Iterable<Int>): List<T> {\n  val size =
indices.collectionSizeOrDefault(10)\n  if (size == 0) return emptyList()\n  val list = ArrayList<T>(size)\n  for
(index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n * Returns a list containing first [n]
elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun <T> Iterable<T>.take(n: Int): List<T> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  if
(this is Collection<T>) {\n    if (n >= size) return toList()\n    if (n == 1) return listOf(first())\n  }\n  var
count = 0\n  val list = ArrayList<T>(n)\n  for (item in this) {\n    list.add(item)\n    if (++count == n)\n      break\n  }\n  return list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list containing last [n] elements.\n */\n * @throws
IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun <T> List<T>.takeLast(n: Int): List<T> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val size =
size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(last())\n  val list = ArrayList<T>(n)\n  if (this is
RandomAccess) {\n    for (index in size - n until size)\n      list.add(this[index])\n  } else {\n    for (item in
listIterator(size - n))\n      list.add(item)\n  }\n  return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic inline fun <T>
List<T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n  if (isEmpty())\n    return emptyList()\n  val
iterator = listIterator(size)\n  while (iterator.hasPrevious()) {\n    if (!predicate(iterator.previous())) {\n
iterator.next()\n      val expectedSize = size - iterator.nextIndex()\n      if (expectedSize == 0) return
emptyList()\n      return ArrayList<T>(expectedSize).apply {\n        while (iterator.hasNext())\n          add(iterator.next())\n      }\n    }\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing first elements
satisfying the given [predicate].\n */\n * @sample samples.collections.Collections.Transformations.take\n */\npublic
inline fun <T> Iterable<T>.takeWhile(predicate:
(T) -> Boolean): List<T> {\n  val list = ArrayList<T>()\n  for (item in this) {\n    if (!predicate(item))\n      break\n    list.add(item)\n  }\n  return list\n}\n\n/**\n * Reverses elements in the list in-place.\n */\npublic
expect fun <T> MutableList<T>.reverse(): Unit\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic
fun <T> Iterable<T>.reversed(): List<T> {\n  if (this is Collection && size <= 1) return toList()\n  val
list = toMutableList()\n  list.reverse()\n  return list\n}\n\n/**\n * Sorts elements in the list in-place according to
natural sort order of the value returned by specified [selector] function.\n */\n * The sort is _stable_. It means that

```

equal elements preserve their order relative to each other after sorting.

```

public inline fun <T, R : Comparable<R>> MutableList<T>.sortBy(crossinline selector: (T) -> R?): Unit {
    if (size > 1)
        sortWith(compareBy(selector))
}

```

\* Sorts elements in the list in-place descending according to natural sort order of the value returned by specified [selector] function. \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public inline fun <T, R : Comparable<R>> MutableList<T>.sortByDescending(crossinline selector: (T) -> R?): Unit {
    if (size > 1)
        sortWith(compareByDescending(selector))
}

```

\* Sorts elements in the list in-place descending according to their natural sort order. \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public fun <T : Comparable<T>> MutableList<T>.sortDescending(): Unit {
    sortWith(reverseOrder())
}

```

\* Returns a list of all elements sorted according to their natural sort order. \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public fun <T : Comparable<T>> Iterable<T>.sorted(): List<T> {
    if (this is Collection) {
        if (size <= 1) return this.toList()
        @Suppress("UNCHECKED_CAST")
        return (toArray<Comparable<T>>() as Array<T>).apply { sort() }.asList()
    }
    return toMutableList().apply { sort() }
}

```

\* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function. \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public inline fun <T, R : Comparable<R>> Iterable<T>.sortedBy(crossinline selector: (T) -> R?): List<T> {
    return sortedWith(compareBy(selector))
}

```

\* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function. \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public inline fun <T, R : Comparable<R>> Iterable<T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {
    return sortedWith(compareByDescending(selector))
}

```

\* Returns a list of all elements sorted descending according to their natural sort order. \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public fun <T : Comparable<T>> Iterable<T>.sortedDescending(): List<T> {
    return sortedWith(reverseOrder())
}

```

\* Returns a list of all elements sorted according to the specified [comparator]. \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public fun <T> Iterable<T>.sortedWith(comparator: Comparator<in T>): List<T> {
    if (this is Collection) {
        if (size <= 1) return this.toList()
        @Suppress("UNCHECKED_CAST")
        return (toArray<Any?>() as Array<T>).apply {
            sortWith(comparator)
        }.asList()
    }
    return toMutableList().apply {
        sortWith(comparator)
    }
}

```

\* Returns an array of Boolean containing all of the elements of this collection.

```

public fun Collection<Boolean>.toBooleanArray(): BooleanArray {
    val result = BooleanArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

\* Returns an array of Byte containing all of the elements of this collection.

```

public fun Collection<Byte>.toByteArray(): ByteArray {
    val result = ByteArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

\* Returns an array of Char containing all of the elements of this collection.

```

public fun Collection<Char>.toCharArray(): CharArray {
    val result = CharArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

\* Returns an array of Double containing all of the elements of this collection.

```

public fun Collection<Double>.toDoubleArray(): DoubleArray {
    val result = DoubleArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

\* Returns an array of Float containing all of the elements of this collection.

```

public fun Collection<Float>.toFloatArray(): FloatArray {
    val result = FloatArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

\* Returns an array of Int containing all of the elements of this collection.

```

public fun Collection<Int>.toIntArray(): IntArray {
    val result = IntArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

\* Returns an array of Long containing all of the elements of this collection.

```

public fun Collection<Long>.toLongArray(): LongArray {
    val result =

```

```

LongArray(size)\n  var index = 0\n  for (element in this)\n    result[index++] = element\n  return result\n}\n\n/**\n * Returns an array of Short containing all of the elements of  
this collection.\n */\npublic fun Collection<Short>.toShortArray(): ShortArray {\n  val result = ShortArray(size)\n  var index = 0\n  for (element in this)\n    result[index++] = element\n  return result\n}\n\n/**\n * Returns a  
[Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given collection.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map  
preserves the entry iteration order of the original collection.\n * \n * @sample  
samples.collections.Collections.Transformations.associate\n */\npublic inline fun <T, K, V>  
Iterable<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n  val capacity =  
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K,  
V>(capacity), transform)\n}\n\n/**\n * Returns a [Map]  
containing the elements from the given collection indexed by the key\n * returned from [keySelector] function  
applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last  
one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n * \n * @sample samples.collections.Collections.Transformations.associateBy\n */\npublic inline fun <T, K>  
Iterable<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n  val capacity =  
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K,  
T>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and  
indexed by [keySelector] functions applied to elements of the given collection.\n * \n * If any two elements would  
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves  
the entry iteration order  
of the original collection.\n * \n * @sample  
samples.collections.Collections.Transformations.associateByWithValueTransform\n */\npublic inline fun <T, K, V>  
Iterable<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n  val capacity =  
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K,  
V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with  
key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given  
collection\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by  
[keySelector] the last one gets added to the map.\n * \n * @sample  
samples.collections.Collections.Transformations.associateByTo\n */\npublic inline fun <T, K, M : MutableMap<in  
K, in T>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n  for (element in this) {\n    destination.put(keySelector(element),  
element)\n  }\n  return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-  
value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the  
[valueTransform] function applied to elements of the given collection.\n * \n * If any two elements would have the  
same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample  
samples.collections.Collections.Transformations.associateByToWithValueTransform\n */\npublic inline fun <T, K,  
V, M : MutableMap<in K, in V>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K,  
valueTransform: (T) -> V): M {\n  for (element in this) {\n    destination.put(keySelector(element),  
valueTransform(element))\n  }\n  return destination\n}\n\n/**\n * Populates and returns the [destination] mutable  
map with key-value pairs\n * provided by [transform] function applied to each element of the given collection.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample  
samples.collections.Collections.Transformations.associateTo\n */\npublic inline fun <T, K, V, M : MutableMap<in  
K, in V>> Iterable<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n  for (element in this) {\n    destination += transform(element)\n  }\n  return destination\n}\n\n/**\n * Returns a [Map] where keys are  
elements from the given collection and values are\n * produced by the [valueSelector] function applied to each  
element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map  
preserves the entry iteration order of the original collection.\n * \n * @sample

```

```

samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\\"1.3\\")\npublic inline fun <K,
V> Iterable<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n    val result = LinkedHashMap<K,
V>(mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16))\n
    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map
with key-value pairs for each element of the given collection,\n * where key is the element itself and value is
provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one
overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\\"1.3\\")\npublic inline fun
<K, V, M : MutableMap<in K, in V>> Iterable<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M
{\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <T, C :
MutableCollection<in T>> Iterable<T>.toCollection(destination: C): C {\n    for (item in this) {\n
destination.add(item)\n
    }\n    return destination\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun <T>
Iterable<T>.toHashSet(): HashSet<T> {\n    return
toCollection(HashSet<T>(mapCapacity(collectionSizeOrDefault(12))))\n}\n\n/**\n * Returns a [List] containing all
elements.\n */\npublic fun <T> Iterable<T>.toList(): List<T> {\n    if (this is Collection) {\n        return when (size)
{\n            0 -> emptyList()\n            1 -> listOf(if (this is List) get(0) else iterator().next())\n            else ->
this.toMutableList()\n        }\n    }\n    return this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a
[MutableList] filled with all elements of this collection.\n */\npublic fun <T> Iterable<T>.toMutableList():
MutableList<T> {\n    if (this is Collection<T>)\n        return this.toMutableList()\n    return
toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this collection.\n
*/\npublic fun <T> Collection<T>.toMutableList():
MutableList<T> {\n    return ArrayList(this)\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set
preserves the element iteration order of the original collection.\n */\npublic fun <T> Iterable<T>.toSet(): Set<T> {\n
if (this is Collection) {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(if (this is List)
this[0] else iterator().next())\n        else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))\n    }\n }\n
return toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n * Returns a single list of all elements
yielded from results of [transform] function being invoked on each element of original collection.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <T, R>
Iterable<T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function
being invoked on each element of original collection, to the given [destination].\n */\npublic inline fun <T, R, C :
MutableCollection<in R>> Iterable<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n    for
(element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Groups elements of the original collection by the key returned by the given [keySelector]
function\n * applied to each element and returns a map where each group key is associated with a list of
corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline
fun <T, K> Iterable<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n    return
groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups values returned by the
[valueTransform]
function applied to each element of the original collection\n * by the key returned by the given [keySelector]
function applied to the element\n * and returns a map where each group key is associated with a list of
corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\npublic inline fun <T, K, V> Iterable<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K,
List<V>> {\n    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector,

```

valueTransform)\n}\n\n/\*\*\n \* Groups elements of the original collection by the key returned by the given [keySelector] function\n \* applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n \* \n \* @return The [destination] map.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n

```

*\npublic inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Iterable<T>.groupByTo(destination: M,
keySelector: (T) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<T>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original collection\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\npublic inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val
list = destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return
destination\n}\n\n/**\n * Creates a [Grouping] source from a collection to be used later with one of group-and-fold
operations\n * using the specified [keySelector] function to extract a key from each element.\n * \n * @sample
samples.collections.Grouping.groupingByEachCount\n
*\n@SinceKotlin("1.1")\npublic inline fun <T, K>
Iterable<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n    return object : Grouping<T, K>
{\n        override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n        override fun keyOf(element:
T): K = keySelector(element)\n    }\n}\n\n/**\n * Returns a list containing the results of applying the given
[transform] function\n * to each element in the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.map\n
*\npublic inline fun <T, R> Iterable<T>.map(transform:
(T) -> R): List<R>
{\n    return mapTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n\n/**\n * Returns a list containing
the results of applying the given [transform] function\n * to each element and its index in the original collection.\n *
@param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n
*\npublic inline fun <T, R> Iterable<T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n    return mapIndexedTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element
and its index in the original collection.\n * @param [transform] function that takes the index of an element and the
element itself\n * and returns the result of the transform applied to the element.\n
*\npublic inline fun <T, R : Any>
Iterable<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?):
List<R> {\n    return mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original collection\n * and appends only the non-null
results to the given [destination].\n * @param [transform] function that takes the index of an element and the
element itself\n * and returns the result of the transform applied to the element.\n
*\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Iterable<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?):
C {\n    forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n    return
destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original
collection\n * and appends the results to the given [destination].\n * @param [transform] function that takes the
index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
*\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapIndexedTo(destination: C, transform:
(index: Int, T) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(checkIndexOverflow(index++), item))\n    return destination\n}\n\n/**\n * Returns a list
containing only the non-null results of applying the given [transform] function\n * to each element in the original
collection.\n
*\npublic inline fun <T, R : Any> Iterable<T>.mapNotNull(transform: (T) -> R?): List<R> {\n    return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each
element in the original collection\n * and appends only the non-null results to the given [destination].\n
*\npublic

```



```

the given [predicate].\n *\npublic inline fun <T> Iterable<T>.count(predicate: (T) ->
Boolean): Int {\n    if (this is Collection && isEmpty()) return 0\n    var count = 0\n    for (element in this) if
(predicate(element)) checkCountOverflow(++count)\n    return count\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from left to right to current accumulator value and each element.\n *\npublic
inline fun <T, R> Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n    var accumulator = initial\n    for
(element in this) accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and
each element with its index in the original collection.\n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*\npublic inline fun <T, R> Iterable<T>.foldIndexed(initial: R, operation:
(index: Int, acc: R, T) -> R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this)
accumulator = operation(checkIndexOverflow(index++), accumulator, element)\n    return accumulator\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from right to left to each element and
current accumulator value.\n *\npublic inline fun <T, R> List<T>.foldRight(initial: R, operation: (T, acc: R) -> R):
R {\n    var accumulator = initial\n    if (!isEmpty()) {\n        val iterator = listIterator(size)\n        while
(iterator.hasPrevious()) {\n            accumulator = operation(iterator.previous(), accumulator)\n        }\n    }\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element with its index in the original list and current accumulator value.\n * @param [operation]
function that takes the index of an element, the element itself\n * and
current accumulator value, and calculates the next accumulator value.\n *\npublic inline fun <T, R>
List<T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {\n    var accumulator = initial\n    if
(!isEmpty()) {\n        val iterator = listIterator(size)\n        while (iterator.hasPrevious()) {\n            val index =
iterator.previousIndex()\n            accumulator = operation(index, iterator.previous(), accumulator)\n        }\n    }\n    return
accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n
*\n@kotlin.internal.HidesMembers\npublic inline fun <T> Iterable<T>.forEach(action: (T) -> Unit): Unit {\n    for
(element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential
index with the element.\n * @param [action] function that takes the index of an element and the element itself\n *
and performs the desired action on the element.\n *\npublic inline fun <T> Iterable<T>.forEachIndexed(action:
(index: Int, T) -> Unit): Unit {\n    var index = 0\n    for (item in this) action(checkIndexOverflow(index++),
item)\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is
`NaN` returns `NaN`.\n *\n@SinceKotlin("1.1")\npublic fun Iterable<Double>.max(): Double? {\n    val iterator =
iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    if (max.isNaN()) return max\n    while
(iterator.hasNext()) {\n        val e = iterator.next()\n        if (e.isNaN()) return e\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of
elements is `NaN` returns `NaN`.\n *\n@SinceKotlin("1.1")\npublic fun Iterable<Float>.max(): Float? {\n    val
iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    if (max.isNaN()) return
max\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (e.isNaN()) return e\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n *\npublic fun <T : Comparable<T>>
Iterable<T>.max(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max =
iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there
are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n *\npublic inline fun <T, R :
Comparable<R>> Iterable<T>.maxBy(selector: (T) -> R): T? {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return null\n    var maxElem = iterator.next()\n    if (!iterator.hasNext()) return maxElem\n    var
maxValue = selector(maxElem)\n    do {\n        val e = iterator.next()\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    } while
(iterator.hasNext())\n    return maxElem\n}\n\n/**\n * Returns the first element having the largest value according to

```

```

the provided [comparator] or `null` if there are no elements.\n */\npublic fun <T> Iterable<T>.maxWith(comparator:
Comparator<in T>): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max =
iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (comparator.compare(max, e) <
0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *\n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin("1.1")\npublic fun Iterable<Double>.min():
Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    if
(min.isNaN()) return min\n    while (iterator.hasNext())\n        {\n            val e = iterator.next()\n            if (e.isNaN()) return e\n            if (min > e) min = e\n        }\n    return
min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *\n * If any of elements is
`NaN` returns `NaN`.\n */\n@SinceKotlin("1.1")\npublic fun Iterable<Float>.min(): Float? {\n    val iterator =
iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    if (min.isNaN()) return min\n
while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (e.isNaN()) return e\n        if (min > e) min = e\n
}\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun <T :
Comparable<T>> Iterable<T>.min(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var
min = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (min > e) min = e\n    }\n
return min\n}\n\n/**\n * Returns
the first element yielding the smallest value of the given function or `null` if there are no elements.\n *\n *
@sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.minBy(selector: (T) -> R): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var
minElem = iterator.next()\n    if (!iterator.hasNext()) return minElem\n    var minValue = selector(minElem)\n    do
{\n        val e = iterator.next()\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n
minValue = v\n        }\n    } while (iterator.hasNext())\n    return minElem\n}\n\n/**\n * Returns the first element
having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun
<T> Iterable<T>.minWith(comparator: Comparator<in T>): T? {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return null\n    var min = iterator.next()\n    while (iterator.hasNext()) {\n        val e =
iterator.next()\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns `true` if the collection has no elements.\n *\n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun <T> Iterable<T>.none(): Boolean {\n    if (this is
Collection) return isEmpty()\n    return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the
given [predicate].\n *\n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic
inline fun <T> Iterable<T>.none(predicate: (T) -> Boolean): Boolean {\n    if (this is Collection && isEmpty())
return true\n    for (element in this) if (predicate(element)) return false\n    return true\n}\n\n/**\n * Performs the
given [action] on each element and returns the collection itself afterwards.\n */\n@SinceKotlin("1.1")\npublic
inline fun <T, C : Iterable<T>> C.onEach(action: (T) -> Unit): C {\n    return apply { for (element
in this) action(element) }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right to current accumulator value and each element.\n *\n * @sample
samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S> Iterable<T>.reduce(operation:
(acc: S, T) -> S): S {\n    val iterator = this.iterator()\n    if (!iterator.hasNext()) throw
UnsupportedOperationException("Empty collection can't be reduced.")\n    var accumulator: S = iterator.next()\n
while (iterator.hasNext()) {\n        accumulator = operation(accumulator, iterator.next())\n    }\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original collection.\n *\n * @param
[operation] function that takes the index of an element, current accumulator value\n * and the element itself and
calculates the next
accumulator value.\n *\n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S,
T : S> Iterable<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n    val iterator = this.iterator()\n    if
(!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't be reduced.")\n    var index =
1\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator =

```

```

operation(checkIndexOverflow(index++), accumulator, iterator.next())\n } \n return accumulator\n}\n\n/**\n *
Accumulates value starting with the first element and applying [operation] from left to right to current accumulator
value and each element. Returns null if the collection is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S>
Iterable<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n val iterator = this.iterator()\n
if (!iterator.hasNext()) return null\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n
accumulator = operation(accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n * Accumulates value
starting with last element and applying [operation] from right to left to each element and current accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun <S, T : S>
List<T>.reduceRight(operation: (T, acc: S) -> S): S {\n val iterator = listIterator(size)\n if
(!iterator.hasPrevious())\n throw UnsupportedOperationException("Empty list can't be reduced.")\n var
accumulator: S = iterator.previous()\n while (iterator.hasPrevious()) {\n accumulator =
operation(iterator.previous(), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting
with last element and applying [operation] from right to left\n * to each element with its index in
the original list and current accumulator value.\n * @param [operation] function that takes the index of an element,
the element itself\n * and current accumulator value, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun <S, T : S>
List<T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n val iterator = listIterator(size)\n if
(!iterator.hasPrevious())\n throw UnsupportedOperationException("Empty list can't be reduced.")\n var
accumulator: S = iterator.previous()\n while (iterator.hasPrevious()) {\n val index = iterator.previousIndex()\n
accumulator = operation(index, iterator.previous(), accumulator)\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with last element and applying [operation] from right to left to each element and current
accumulator value. Returns null if the list is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S>
List<T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\n val iterator = listIterator(size)\n if
(!iterator.hasPrevious())\n return null\n var accumulator: S = iterator.previous()\n while
(iterator.hasPrevious()) {\n accumulator = operation(iterator.previous(), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n
* Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <T, R> Iterable<T>.scan(initial: R,
operation: (acc: R, T) -> R): List<R> {\n val estimatedSize = collectionSizeOrDefault(9)\n if (estimatedSize ==
0) return listOf(initial)\n val result = ArrayList<R>(estimatedSize + 1).apply { add(initial) }\n var accumulator =
initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original collection
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes the index of an element, current
accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic
inline fun <T, R> Iterable<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n val
estimatedSize = collectionSizeOrDefault(9)\n if (estimatedSize == 0) return listOf(initial)\n val result =

```

```

ArrayList<R>(estimatedSize + 1).apply { add(initial) }\n  var index = 0\n  var accumulator = initial\n  for
(element in this) {\n    accumulator = operation(index++, accumulator, element)\n    result.add(accumulator)\n
}\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with the first element of
this collection.\n * \n * Note that `acc` value passed to [operation] function should not
be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function
that takes current accumulator value and the element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scanReduce\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S>
Iterable<T>.scanReduce(operation: (acc: S, T) -> S): List<S> {\n  val iterator = this.iterator()\n  if
(!iterator.hasNext()) return emptyList()\n  var accumulator: S = iterator.next()\n  val result =
ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }\n  while (iterator.hasNext()) {\n
accumulator = operation(accumulator, iterator.next())\n    result.add(accumulator)\n  }\n  return
result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from
left to right\n * to each element, its index in the original collection and current accumulator
value that starts with the first element of this collection.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S>
Iterable<T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n  val iterator = this.iterator()\n
if (!iterator.hasNext()) return emptyList()\n  var accumulator: S = iterator.next()\n  val result =
ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }\n  var index = 1\n  while
(iterator.hasNext()) {\n    accumulator = operation(index++, accumulator, iterator.next())\n
result.add(accumulator)\n
}\n  return result\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each
element in the collection.\n */\npublic inline fun <T> Iterable<T>.sumBy(selector: (T) -> Int): Int {\n  var sum: Int
= 0\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of
all values produced by [selector] function applied to each element in the collection.\n */\npublic inline fun <T>
Iterable<T>.sumByDouble(selector: (T) -> Double): Double {\n  var sum: Double = 0.0\n  for (element in this)
{\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns an original collection containing all the
non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n */\npublic fun <T :
Any> Iterable<T?>.requireNonNulls(): Iterable<T> {\n  for (element in this) {\n    if (element == null) {\n
throw IllegalArgumentException("null element found
in $this.")\n    }\n  }\n  @Suppress("UNCHECKED_CAST")\n  return this as Iterable<T>\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if
there are any `null` elements.\n */\npublic fun <T : Any> List<T?>.requireNonNulls(): List<T> {\n  for (element in
this) {\n    if (element == null) {\n      throw IllegalArgumentException("null element found in $this.")\n    }\n
}\n  @Suppress("UNCHECKED_CAST")\n  return this as List<T>\n}\n\n/**\n * Splits this collection into
a list of lists each not exceeding the given [size].\n * \n * The last list in the resulting list may have less elements
than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be
greater than the number of elements in this collection.\n * \n * @sample
samples.collections.Collections.Transformations.chunked\n
*/\n@SinceKotlin("1.2")\npublic fun <T>
Iterable<T>.chunked(size:
Int): List<List<T>> {\n  return windowed(size, size, partialWindows = true)\n}\n\n/**\n * Splits this collection
into several lists each not exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n *
@return list of results of the [transform] applied to an each list.\n * \n * Note that the list passed to the [transform]
function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some

```

way, unless you made a snapshot of it. The last list may have less elements than the given [size].

`@param size` the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.

`@sample samples.text.Strings.chunkedTransform`

```

*^@SinceKotlin("1.2")
public fun <T, R> Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R>
{
    return windowed(size, size, partialWindows = true, transform = transform)
}

```

\* Returns a list containing all elements of the original collection without the first occurrence of the given [element].

```

*^public operator fun <T> Iterable<T>.minus(element: T): List<T> {
    val result = ArrayList<T>(collectionSizeOrDefault(10))
    var removed = false
    return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }
}

```

\* Returns a list containing all elements of the original collection except the elements contained in the given [elements] array. The [elements] array may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.

```

*^public operator fun <T> Iterable<T>.minus(elements: Array<out T>): List<T> {
    if (elements.isEmpty()) return this.toList()
    val other = elements.toHashSet()
    return this.filterNot { it in other }
}

```

\* Returns a list containing all elements of the original collection except the elements contained in the given [elements] collection. The [elements] collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.

```

*^public operator fun <T> Iterable<T>.minus(elements: Iterable<T>): List<T>
{
    val other = elements.convertToSetForSetOperationWith(this)
    if (other.isEmpty()) return this.toList()
    return this.filterNot { it in other }
}

```

\* Returns a list containing all elements of the original collection except the elements contained in the given [elements] sequence. The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.

```

*^public operator fun <T> Iterable<T>.minus(elements: Sequence<T>): List<T> {
    val other = elements.toHashSet()
    if (other.isEmpty()) return this.toList()
    return this.filterNot { it in other }
}

```

\* Returns a list containing all elements of the original collection without the first occurrence of the given [element].

```

*^@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.minusElement(element: T): List<T> {
    return minus(element)
}

```

\* Splits the original collection into pair of lists, where `first` list contains elements for which [predicate] yielded `true`, while `second` list contains elements for which [predicate] yielded `false`.

```

*^public inline fun <T> Iterable<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {
    val first = ArrayList<T>()
    val second = ArrayList<T>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

```

\* Returns a list containing all elements of the original collection and then the given [element].

```

*^public operator fun <T> Iterable<T>.plus(element: T): List<T> {
    if (this is Collection) return this.plus(element)
    val result = ArrayList<T>()
    result.addAll(this)
    result.add(element)
    return result
}

```

\* Returns a list containing all elements of the original collection and then the given [element].

```

*^public operator fun <T> Collection<T>.plus(element: T): List<T> {
    val result = ArrayList<T>(size + 1)
    result.addAll(this)
    result.add(element)
    return result
}

```

\* Returns a list containing all elements of the original collection and then all elements of the given [elements] array.

```

*^public operator fun <T> Iterable<T>.plus(elements: Array<out T>): List<T> {
    if (this is Collection) return this.plus(elements)
    val result = ArrayList<T>()
    result.addAll(this)
    result.addAll(elements)
    return result
}

```

\* Returns a list containing all elements of the original collection and then all elements of the given [elements] array.

```

*^public operator fun <T> Collection<T>.plus(elements: Array<out T>): List<T> {
    val result = ArrayList<T>(this.size + elements.size)
    result.addAll(this)
    result.addAll(elements)
    return result
}

```

\* Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.

```

*^public operator fun <T> Iterable<T>.plus(elements: Iterable<T>): List<T> {
    if (this is Collection) return this.plus(elements)
    val result = ArrayList<T>()
    result.addAll(this)
    result.addAll(elements)
    return result
}

```

\* Returns a

```

list containing all elements of the original collection and then all elements of the given [elements] collection.\n
*\npublic operator fun <T> Collection<T>.plus(elements:
Iterable<T>): List<T> {\n    if (elements is Collection) {\n        val result = ArrayList<T>(this.size +
elements.size)\n        result.addAll(this)\n        result.addAll(elements)\n        return result\n    } else {\n        val
result = ArrayList<T>(this)\n        result.addAll(elements)\n        return result\n    }\n}\n\n**\n * Returns a list
containing all elements of the original collection and then all elements of the given [elements] sequence.\n
*\npublic operator fun <T> Iterable<T>.plus(elements: Sequence<T>): List<T> {\n    val result = ArrayList<T>()\n
result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n**\n * Returns a list containing all elements
of the original collection and then all elements of the given [elements] sequence.\n
*\npublic operator fun <T>
Collection<T>.plus(elements: Sequence<T>): List<T> {\n    val result = ArrayList<T>(this.size + 10)\n
result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n**\n
 * Returns a list containing all elements of the original collection and then the given [element].\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.plusElement(element: T): List<T> {\n    return
plus(element)\n}\n\n**\n * Returns a list containing all elements of the original collection and then the given
[element].\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.plusElement(element: T):
List<T> {\n    return plus(element)\n}\n\n**\n * Returns a list of snapshots of the window of the given [size]\n *
sliding along this collection with the given [step], where each\n * snapshot is a list.\n * \n * Several last lists may
have less elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the
number of elements in this collection.\n * @param size the number of elements to take in each window\n * @param
step the number of elements to move the window forward by on an each step, by default 1\n *
 * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false`
which means partial windows won't be preserved\n * \n * @sample
samples.collections.Sequences.Transformations.takeWindows\n
*\n@SinceKotlin("1.2")\npublic fun <T>
Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<List<T>> {\n
checkWindowSizeStep(size, step)\n    if (this is RandomAccess && this is List) {\n        val thisSize = this.size\n
val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n        val result =
ArrayList<List<T>>(resultCapacity)\n        var index = 0\n        while (index in 0 until thisSize) {\n            val
windowSize = size.coerceAtMost(thisSize - index)\n            if (windowSize < size && !partialWindows) break\n
            result.add(List(windowSize) { this[it + index] })\n            index += step\n        }\n        return result\n    }\n    val
result = ArrayList<List<T>>()\n
    windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = false).forEach {\n        result.add(it)\n    }\n
return result\n}\n\n**\n * Returns a list of results of applying the given [transform] function to\n * an each list
representing a view over the window of the given [size]\n * sliding along this collection with the given [step].\n * \n *
Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You
should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last lists may
have less elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the
number of elements in this collection.\n * @param size the number of elements to take in each window\n * @param
step the number of elements to move the window forward by on an each step, by default 1\n * @param
partialWindows controls whether or not to keep partial windows in the
end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample
samples.collections.Sequences.Transformations.averageWindows\n
*\n@SinceKotlin("1.2")\npublic fun <T, R>
Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R):
List<R> {\n    checkWindowSizeStep(size, step)\n    if (this is RandomAccess && this is List) {\n        val thisSize =
this.size\n        val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n        val result =
ArrayList<R>(resultCapacity)\n        val window = MovingSubList(this)\n        var index = 0\n        while (index in 0
until thisSize) {\n            val windowSize = size.coerceAtMost(thisSize - index)\n            if (!partialWindows &&
windowSize < size) break\n            window.move(index, index + windowSize)\n            result.add(transform(window))\n
            index += step\n        }\n        return result\n    }\n    val result =

```

ArrayList<R>()\n

```
windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach {\n
result.add(transform(it))\n } return result\n}\n\n/**\n * Returns a list of pairs built from the elements of `this`\n * collection and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Iterable<T>.zip(other:\nArray<out R>): List<Pair<T, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values\n * built from the elements of `this` collection and the [other] array with the same index\n * using the provided\n * [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V>\nIterable<T>.zip(other: Array<out R>, transform: (a: T, b: R) ->\nV): List<V> {\n    val arraySize = other.size\n    val list = ArrayList<V>(minOf(collectionSizeOrDefault(10),\narraySize))\n    var i = 0\n    for (element in this) {\n        if (i >= arraySize) break\n        list.add(transform(element,\nother[i++]))\n    }\n    return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and\n * [other] collection with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample\n * samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Iterable<T>.zip(other:\nIterable<R>): List<Pair<T, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values\n * built from the elements of `this` collection and the [other] collection with the same index\n * using the provided\n * [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample\n * samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Iterable<T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n    val\nfirst = iterator()\n    val second = other.iterator()\n    val list = ArrayList<V>(minOf(collectionSizeOrDefault(10),\nother.collectionSizeOrDefault(10)))\n    while (first.hasNext() && second.hasNext()) {\n        list.add(transform(first.next(), second.next()))\n    }\n    return list\n}\n\n/**\n * Returns a list of pairs of each two\n * adjacent elements in this collection.\n * The returned list is empty if this collection contains less than two\n * elements.\n * \n * @sample\n * samples.collections.Collections.Transformations.zipWithNext\n */\n@SinceKotlin("1.2")\npublic fun <T> Iterable<T>.zipWithNext(): List<Pair<T, T>> {\n    return zipWithNext\n{ a, b -> a to b }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to\n * an each pair of two adjacent elements in this collection.\n * The returned list is\n * empty if this collection contains less than two elements.\n * \n * @sample\n * samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n */\n@SinceKotlin("1.2")\npublic\ninline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {\n    val iterator = iterator()\n    if\n(!iterator.hasNext()) return emptyList()\n    val result = mutableListOf<R>()\n    var current = iterator.next()\n    while (iterator.hasNext()) {\n        val next = iterator.next()\n        result.add(transform(current, next))\n        current\n= next\n    }\n    return result\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and\n * using the given [prefix] and [postfix] if supplied.\n * If the collection could be huge, you can specify a non-\n * negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the\n * [truncated] string (which defaults to "...").\n * \n * @sample\n * samples.collections.Collections.Transformations.joinTo\n */\npublic fun <T, A : Appendable> Iterable<T>.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix:\nCharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...", transform: ((T)\n-> CharSequence)? = null): A {\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if\n(++count > 1) buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            buffer.appendElement(element, transform)\n        } else break\n    }\n    if (limit >= 0 && count > limit)\nbuffer.append(truncated)\n    buffer.append(postfix)\n    return buffer\n}\n\n/**\n * Creates a string from all the\n * elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * If the collection\n * could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will\n * be appended, followed by the [truncated] string (which defaults to "...").\n */\n
```

```

* \n * @sample samples.collections.Collections.Transformations.joinToString\n *\npublic fun <T>
Iterable<T>.joinToString(separator: CharSequence = "\", \", prefix: CharSequence = "\", postfix: CharSequence =
\"", limit: Int = -1, truncated: CharSequence = "...\", transform: ((T) -> CharSequence)? = null): String {\n    return
joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Returns this
collection as an [Iterable].\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.asIterable():
Iterable<T> {\n    return this\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original collection returning
its elements when being iterated.\n *\n * @sample
samples.collections.Sequences.Building.sequenceFromCollection\n *\npublic fun <T> Iterable<T>.asSequence():
Sequence<T> {\n    return Sequence { this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the
collection.\n *\n@kotlin.jvm.JvmName("averageOfByte")\npublic
fun Iterable<Byte>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this)
{\n        sum += element\n        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum
/ count\n}\n\n/**\n * Returns an average value of elements in the collection.\n
*\n@kotlin.jvm.JvmName("averageOfShort")\npublic fun Iterable<Short>.average(): Double {\n    var sum:
Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the collection.\n *\n@kotlin.jvm.JvmName("averageOfInt")\npublic fun
Iterable<Int>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n
sum += element\n        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the collection.\n *\n@kotlin.jvm.JvmName("averageOfLong")\npublic
fun Iterable<Long>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this)
{\n        sum += element\n        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum
/ count\n}\n\n/**\n * Returns an average value of elements in the collection.\n *\n@kotlin.jvm.JvmName("averageOfFloat")\npublic fun Iterable<Float>.average(): Double {\n    var sum:
Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the collection.\n *\n@kotlin.jvm.JvmName("averageOfDouble")\npublic fun
Iterable<Double>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n
sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
the sum of all elements in the collection.\n *\n@kotlin.jvm.JvmName("sumOfByte")\npublic fun
Iterable<Byte>.sum(): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n *\n@kotlin.jvm.JvmName("sumOfShort")\npublic fun Iterable<Short>.sum(): Int {\n    var sum: Int = 0\n    for
(element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the
collection.\n *\n@kotlin.jvm.JvmName("sumOfInt")\npublic fun Iterable<Int>.sum(): Int {\n    var sum: Int = 0\n
for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in
the collection.\n *\n@kotlin.jvm.JvmName("sumOfLong")\npublic fun Iterable<Long>.sum(): Long {\n    var
sum: Long
= 0L\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all
elements in the collection.\n *\n@kotlin.jvm.JvmName("sumOfFloat")\npublic fun Iterable<Float>.sum(): Float
{\n    var sum: Float = 0.0f\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns
the sum of all elements in the collection.\n *\n@kotlin.jvm.JvmName("sumOfDouble")\npublic fun
Iterable<Double>.sum(): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += element\n
}\n    return sum\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n@kotlin.package.kotlin.collections\nimport kotlin.comparisons.naturalOrder\nimport

```

kotlin.random.Random\n\n\*\* Returns the array if it's not `null`, or an empty array otherwise.

\*\n@kotlin.internal.InlineOnly\npublic

actual inline fun <T> Array<out T>?.orEmpty(): Array<out T> = this ?:

emptyArray<T>()\n\n@kotlin.internal.InlineOnly\npublic actual inline fun <T> Collection<T>.toArray():

Array<T> = copyToArray(this)\n\n@JsName("\n\n@PublishedApi\n\ninternal fun <T>

copyToArray(collection: Collection<T>): Array<T> {\n return if (collection.asDynamic().toArray !==

undefined)\n collection.asDynamic().toArray().unsafeCast<Array<T>>()\n else\n

copyToArrayImpl(collection).unsafeCast<Array<T>>()\n}\n\n@JsName("\n\n@PublishedApi\n\ninternal actual fun

copyToArrayImpl(collection: Collection<\*>): Array<Any?> {\n val array = emptyArray<Any?>()\n val iterator

= collection.iterator()\n while (iterator.hasNext())\n array.asDynamic().push(iterator.next())\n return

array\n}\n\n@JsName("\n\n@PublishedApi\n\ninternal actual fun <T> copyToArrayImpl(collection:

Collection<\*>, array: Array<T>): Array<T> {\n if (array.size < collection.size)\n

return copyToArrayImpl(collection).unsafeCast<Array<T>>()\n\n val iterator = collection.iterator()\n var

index = 0\n while (iterator.hasNext()) {\n array[index++] = iterator.next().unsafeCast<T>()\n }\n if (index

< array.size) {\n array[index] = null.unsafeCast<T>()\n }\n return array\n}\n\n\*\* Returns an immutable

list containing only the specified object [element].\n\n\*public fun <T> listOf(element: T): List<T> =

arrayListOf(element)\n\n\*\* Returns an immutable set containing only the specified object [element].\n

\*public fun <T> setOf(element: T): Set<T> = hashSetOf(element)\n\n\*\* Returns an immutable map,

mapping only the specified key to the\n \* specified value.\n\n\*public fun <K, V> mapOf(pair: Pair<K, V>):

Map<K, V> = hashMapOf(pair)\n\n\*\* Returns an immutable list with the provided [value].\n\n\* Each element in the list

gets replaced with the [value].\n\n\* Since Kotlin("1.2")\n\npublic actual fun <T> MutableList<T>.fill(value:

T): Unit {\n for (index in 0..lastIndex) {\n this[index] = value\n }\n}\n\n\*\* Randomly shuffles

elements in this list.\n\n\* See:

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

\*\n@SinceKotlin("1.2")\n\npublic actual fun <T> MutableList<T>.shuffle(): Unit = shuffle(Random)\n\n\*\* Returns a new list with the elements of this list randomly shuffled.\n\n\* Since Kotlin("1.2")\n\npublic actual fun

<T> Iterable<T>.shuffled(): List<T> = toMutableList().apply { shuffle() }\n\n\*\* Sorts elements in the list in-

place according to their natural sort order.\n\n\* The sort is \_stable\_. It means that equal elements preserve their

order relative to each other after sorting.\n\n\* public actual fun <T : Comparable<T>> MutableList<T>.sort(): Unit

{\n collectionsSort(this, naturalOrder())\n}\n\n\*\* Sorts elements in the list in-place according to the order

specified with [comparator].\n\n\* The sort is \_stable\_.\n

It means that equal elements preserve their order relative to each other after sorting.\n\n\* public actual fun <T>

MutableList<T>.sortWith(comparator: Comparator<in T>): Unit {\n collectionsSort(this,

comparator)\n}\n\nprivate fun <T> collectionsSort(list: MutableList<T>, comparator: Comparator<in T>) {\n if

(list.size <= 1) return\n\n val array = copyToArray(list)\n sortArrayWith(array, comparator)\n\n for (i in 0 until

array.size) {\n list[i] = array[i]\n }\n}\n\ninternal actual fun <T> arrayOfNulls(reference: Array<T>, size: Int):

Array<T> {\n return

arrayOfNulls<Any>(size).unsafeCast<Array<T>>()\n}\n\n@SinceKotlin("1.3")\n\n@PublishedApi\n\n@JsName("\n\narrayCopy")\n\ninternal fun <T> arrayCopy(source: Array<out T>, destination: Array<in T>, destinationOffset: Int,

startIndex: Int, endIndex: Int) {\n AbstractList.checkRangeIndexes(startIndex, endIndex, source.size)\n val

rangeSize = endIndex - startIndex\n AbstractList.checkRangeIndexes(destinationOffset,

destinationOffset + rangeSize, destination.size)\n\n if (js("\n\nArrayBuffer").isView(destination) &&

js("\n\nArrayBuffer").isView(source)) {\n val subrange = source.asDynamic().subarray(startIndex, endIndex)\n

destination.asDynamic().set(subrange, destinationOffset)\n } else {\n if (source !== destination ||

destinationOffset <= startIndex) {\n for (index in 0 until rangeSize) {\n

destination[destinationOffset + index] = source[startIndex + index]\n }\n } else {\n for (index in

rangeSize - 1 downTo 0) {\n destination[destinationOffset + index] = source[startIndex + index]\n

}\n }\n }\n}\n\n// no singleton map implementation in js, return map as

```

is\n@Suppress(\\"NOTHING_TO_INLINE\\")\ninternal actual inline fun <K, V> Map<K,
V>.toSingletonMapOrSelf(): Map<K, V> = this\n\n@Suppress(\\"NOTHING_TO_INLINE\\")\ninternal actual inline
fun <K, V> Map<out K, V>.toSingletonMap():
Map<K, V> = this.toMutableMap()\n\n\n@Suppress(\\"NOTHING_TO_INLINE\\")\ninternal actual inline fun <T>
Array<out T>.copyToArrayOfAny(isVarargs: Boolean): Array<out Any?> =\n    if (isVarargs)\n        // no need to
copy vararg array in JS\n        this\n    else\n        this.copyOfOf()\n\n\n\n@PublishedApi\ninternal actual fun
checkIndexOverflow(index: Int): Int {\n    if (index < 0) {\n        throwIndexOverflow()\n    }\n    return
index\n}\n\n\n@PublishedApi\ninternal actual fun checkCountOverflow(count: Int): Int {\n    if (count < 0) {\n
throwCountOverflow()\n    }\n    return count\n}\n\n\n\n**\n * JS map and set implementations do not make use of
capacities or load factors.\n *^\n@PublishedApi\ninternal actual fun mapCapacity(expectedSize: Int) =
expectedSize\n\n\n**\n * Checks a collection builder function capacity argument.\n * In JS no validation is made in
Map/Set constructor yet.\n *^\n@SinceKotlin(\\"1.3\\")\n@ExperimentalStdlibApi\n@PublishedApi\ninternal actual
fun checkBuilderCapacity(capacity:
Int) {\n    require(capacity >= 0) {\n        \"capacity must be non-negative.\\\" }\n}\n}\n\n\n**\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n
*\n\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\\"CollectionsKt\\")\n\npackage
kotlin.collections\n\n\n**\n * Returns the given iterator itself. This allows to use an instance of iterator in a `for`
loop.\n * @sample samples.collections.Iterators.iterator\n *^\n@kotlin.internal.InlineOnly\npublic inline operator
fun <T> Iterator<T>.iterator(): Iterator<T> = this\n\n\n**\n * Returns an [Iterator] that wraps each element produced
by the original iterator\n * into an [IndexedValue] containing the index of that element and the element itself.\n *^\n
* @sample samples.collections.Iterators.withIndexIterator\n *^\npublic fun <T> Iterator<T>.withIndex():
Iterator<IndexedValue<T>>
= IndexingIterator(this)\n\n\n**\n * Performs the given [operation] on each element of this [Iterator].\n * @sample
samples.collections.Iterators.forEachIterator\n *^\npublic inline fun <T> Iterator<T>.forEach(operation: (T) ->
Unit): Unit {\n    for (element in this) operation(element)\n}\n\n\n**\n * Iterator transforming original `iterator` into
iterator of [IndexedValue], counting index from zero.\n *^\ninternal class IndexingIterator<out T>(private val
iterator: Iterator<T>) : Iterator<IndexedValue<T>> {\n    private var index = 0\n    final override fun hasNext():
Boolean = iterator.hasNext()\n    final override fun next(): IndexedValue<T> =
IndexedValue(checkIndexOverflow(index++), iterator.next())\n}\n\n\n**\n * Copyright 2010-2019 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*\n\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\\"ComparisonsKt\\")\n\npackage
kotlin.comparisons\n\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n\nimport kotlin.random.*\n\n\n**\n * Returns the
greater of two values.\n * If values are equal, returns the first one.\n *^\n@SinceKotlin(\\"1.1\\")\npublic expect fun
<T : Comparable<T>> maxOf(a: T, b: T): T\n\n\n**\n * Returns the greater of two values.\n
*\n@SinceKotlin(\\"1.1\\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte):
Byte\n\n\n**\n * Returns the greater of two values.\n *^\n@SinceKotlin(\\"1.1\\")\n@kotlin.internal.InlineOnly\npublic
expect inline fun maxOf(a: Short, b: Short): Short\n\n\n**\n * Returns the greater of two values.\n
*\n@SinceKotlin(\\"1.1\\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int): Int\n\n\n**\n
* Returns the greater of two values.\n *^\n@SinceKotlin(\\"1.1\\")\n@kotlin.internal.InlineOnly\npublic
expect inline fun maxOf(a: Long, b: Long): Long\n\n\n**\n * Returns the greater of two values.\n
*\n@SinceKotlin(\\"1.1\\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Float, b: Float):
Float\n\n\n**\n * Returns the greater of two values.\n
*\n@SinceKotlin(\\"1.1\\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Double, b: Double):
Double\n\n\n**\n * Returns the greater of three values.\n *^\n@SinceKotlin(\\"1.1\\")\npublic expect fun <T :
Comparable<T>> maxOf(a: T, b: T, c: T): T\n\n\n**\n * Returns the greater of three values.\n

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*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun maxOf(a: Byte, b: Byte, c: Byte):
Byte^/^/**^ Returns the greater of three values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun maxOf(a: Short, b: Short, c:
Short): Short^/^/**^ Returns the greater of three values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun maxOf(a:
Int, b: Int, c: Int): Int^/^/**^ Returns the greater of three values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun maxOf(a: Long, b: Long, c:
Long): Long^/^/**^ Returns the greater of three values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun maxOf(a: Float, b: Float, c:
Float): Float^/^/**^ Returns the greater of three values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun maxOf(a: Double, b: Double, c:
Double): Double^/^/**^ Returns the greater of three values according to the order specified by the given
[comparator].^
*^@SinceKotlin("1.1")^public fun <T> maxOf(a: T, b: T, c: T, comparator: Comparator<in T>):
T {^
    return maxOf(a, maxOf(b, c, comparator), comparator)^
}^/^/**^ Returns the greater of two values
according to the order specified by the given [comparator].^
* If values are equal, returns the first one.^
*^@SinceKotlin("1.1")^public
fun <T> maxOf(a: T, b: T, comparator: Comparator<in T>): T {^
    return if (comparator.compare(a, b) >= 0) a
    else b^
}^/^/**^ Returns the smaller of two values.^
* If values are equal, returns the first one.^
*^@SinceKotlin("1.1")^public expect fun <T : Comparable<T>> minOf(a: T, b: T): T^/^/**^ Returns the
smaller of two values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun minOf(a:
Byte, b: Byte): Byte^/^/**^ Returns the smaller of two values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun minOf(a: Short, b: Short):
Short^/^/**^ Returns the smaller of two values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun minOf(a: Int, b: Int): Int^/^/**^
* Returns the smaller of two values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline
fun minOf(a: Long, b: Long): Long^/^/**^ Returns the smaller of two values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun minOf(a: Float, b: Float):
Float^/^/**^ Returns the smaller of two values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun minOf(a: Double, b: Double):
Double^/^/**^ Returns the smaller of two values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect fun <T :
Comparable<T>> minOf(a: T, b: T, c: T): T^/^/**^ Returns the smaller of three values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun minOf(a: Byte, b: Byte, c: Byte):
Byte^/^/**^ Returns the smaller of three values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun minOf(a: Short, b: Short, c:
Short): Short^/^/**^ Returns the smaller of three values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun minOf(a: Int, b: Int, c: Int):
Int^/^/**^ Returns the smaller of three values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public
expect inline fun minOf(a: Long, b: Long, c: Long): Long^/^/**^ Returns the smaller of three values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun minOf(a: Float, b: Float, c: Float):
Float^/^/**^ Returns the smaller of three values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun minOf(a: Double, b: Double, c:
Double): Double^/^/**^ Returns the smaller of three values according to the order specified by the given
[comparator].^
*^@SinceKotlin("1.1")^public fun <T> minOf(a: T, b: T, c: T, comparator: Comparator<in T>):
T {^
    return minOf(a, minOf(b, c, comparator), comparator)^
}^/^/**^ Returns the smaller of two values
according to the order specified by the given [comparator].^
* If values are equal, returns the first one.^
*^@SinceKotlin("1.1")^public fun <T> minOf(a: T, b: T, comparator: Comparator<in T>): T {^
    return if (comparator.compare(a,

```

b) <= 0) a else b\n}\n\n", "/\*\n \* Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

```
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MapsKt")\n\npackage\nkotlin.collections\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns a [List] containing all key-value pairs.\n */\npublic fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>> {\n    if (size == 0)\n        return emptyList()\n    val iterator = entries.iterator()\n    if (!iterator.hasNext())\n        return emptyList()\n    val first = iterator.next()\n    if (!iterator.hasNext())\n        return listOf(first.toPair())\n    val result = ArrayList<Pair<K, V>>(size)\n    result.add(first.toPair())\n    do {\n        result.add(iterator.next().toPair())\n    } while\n(iterator.hasNext())\n    return result\n}\n\n/**\n * Returns a single list of all elements yielded from results of\n [transform] function being invoked on each entry of original map.\n */\n\n@sample\nsamples.collections.Collections.Transformations.flatMap\n\npublic inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),\n    transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each\n entry of original map, to the given [destination].\n */\npublic inline fun <K, V, R, C : MutableCollection<in R>>\nMap<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Iterable<R>): C {\n    for (element in\n    this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Returns a list\n containing the results of applying the given [transform] function\n * to each entry in the original map.\n */\n\n@sample\nsamples.collections.Collections.Transformations.mapToList\n\npublic inline fun <K, V, R> Map<out K, V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {\n    return mapTo(ArrayList<R>(size),\n    transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform]\n function\n * to each entry in the original map.\n */\npublic inline fun <K, V, R : Any> Map<out K, V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {\n    return mapNotNullTo(ArrayList<R>(),\n    transform)\n}\n\n/**\n * Applies the given [transform] function to each entry in the original map\n * and appends\n only the non-null results to the given [destination].\n */\npublic inline fun <K, V, R : Any, C : MutableCollection<in R>>\nMap<out K, V>.mapNotNullTo(destination: C, transform: (Map.Entry<K, V>) -> R?): C {\n    forEach {\n        element -> transform(element)?.let { destination.add(it)\n    }\n}\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each entry of the original map\n * and appends the results to the given [destination].\n */\npublic inline fun <K, V, R, C : MutableCollection<in R>>\nMap<out K, V>.mapTo(destination: C, transform: (Map.Entry<K, V>) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Returns `true` if all entries match the given\n [predicate].\n */\n\n@sample\nsamples.collections.Collections.Aggregates.all\n\npublic inline fun <K, V>\nMap<out K, V>.all(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n    if (isEmpty()) return true\n    for\n(element in this) if (!predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if map has at least\n one entry.\n */\n\n@sample\nsamples.collections.Collections.Aggregates.any\n\npublic fun <K, V> Map<out K, V>.any(): Boolean {\n    return !isEmpty()\n}\n\n/**\n * Returns `true`\n if at least one entry matches the given [predicate].\n */\n\n@sample\nsamples.collections.Collections.Aggregates.anyWithPredicate\n\npublic inline fun <K, V> Map<out K, V>.any(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n    if (isEmpty()) return false\n    for (element in\n    this) if (predicate(element)) return true\n    return false\n}\n\n/**\n * Returns the number of entries in this map.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.count(): Int {\n    return size\n}\n\n/**\n * Returns the number of entries matching the given [predicate].\n */\npublic inline fun <K, V> Map<out K, V>.count(predicate: (Map.Entry<K, V>) -> Boolean): Int {\n    if (isEmpty()) return 0\n    var count = 0\n    for\n(element in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Performs the given [action] on each\n entry.\n */\n\n@kotlin.internal.HidesMembers\npublic inline fun <K, V> Map<out K, V>.forEach(action:
```

```

(Map.Entry<K, V> -> Unit): Unit {
    for (element in this) action(element)
}
/**
 * Returns the first entry yielding the largest value of the given
 * function or `null` if there are no entries.
 */
@sample samples.collections.Collections.Aggregates.maxBy
@kotlin.internal.InlineOnly
public inline fun <K, V, R : Comparable<R>> Map<out K, V>.maxBy(selector:
    (Map.Entry<K, V> -> R): Map.Entry<K, V>? {
        return entries.maxBy(selector)
    }): Map.Entry<K, V>? {
    return entries.maxBy(selector)
}
/**
 * Returns the first
 * entry having the largest value according to the provided [comparator] or `null` if there are no entries.
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.maxWith(comparator: Comparator<in
    Map.Entry<K, V>>): Map.Entry<K, V>? {
    return entries.maxWith(comparator)
}
/**
 * Returns the first
 * entry yielding the smallest value of the given function or `null` if there are no entries.
 */
@sample
samples.collections.Collections.Aggregates.minBy
public inline fun <K, V, R : Comparable<R>> Map<out K,
    V>.minBy(selector:
    (Map.Entry<K, V> -> R): Map.Entry<K, V>? {
        return entries.minBy(selector)
    }): Map.Entry<K, V>? {
    return entries.minBy(selector)
}
/**
 * Returns the first
 * entry having the smallest value according to the provided [comparator] or `null` if there are no entries.
 */
public fun <K, V> Map<out K, V>.minWith(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {
    return entries.minWith(comparator)
}
/**
 * Returns `true` if the map has no entries.
 */
@sample
samples.collections.Collections.Aggregates.none
public fun <K, V> Map<out K, V>.none(): Boolean {
    return isEmpty()
}
/**
 * Returns `true` if no entries match the given [predicate].
 */
@sample
samples.collections.Collections.Aggregates.noneWithPredicate
public inline fun <K, V> Map<out K,
    V>.none(predicate: (Map.Entry<K, V> -> Boolean): Boolean {
    if (isEmpty()) return true
    for (element in this) if (predicate(element)) return false
    return true
}
/**
 * Performs the given [action] on each entry and
 * returns
 * the map itself afterwards.
 */
@SinceKotlin("1.1")
public inline fun <K, V, M : Map<out K, V>>
    M.onEach(action: (Map.Entry<K, V> -> Unit): M {
    return apply { for (element in this) action(element)
    }
}
/**
 * Creates an [Iterable] instance that wraps the original map returning its entries when being iterated.
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.asIterable(): Iterable<Map.Entry<K,
    V>> {
    return entries
}
/**
 * Creates a [Sequence] instance that wraps the original map returning its entries
 * when being iterated.
 */
public fun <K, V> Map<out K, V>.asSequence(): Sequence<Map.Entry<K, V>> {
    return entries.asSequence()
}
}
/**
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 * contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the
 * license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SequencesKt")
package
    kotlin.sequences
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See:
// https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
//
import kotlin.random.*
/**
 * Returns
 * `true` if [element] is found in the sequence.
 */
* The operation is _terminal_.
public operator fun
    <@kotlin.internal.OnlyInputTypes T> Sequence<T>.contains(element: T): Boolean {
    return indexOf(element)
    >= 0
}
/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the
 * [index] is out of bounds of this sequence.
 */
* The operation is _terminal_.
@sample
samples.collections.Collections.Elements.elementAt
public fun <T> Sequence<T>.elementAt(index: Int): T
    {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("Sequence doesn't contain element at
    index $index.")
    }
}
/**
 * Returns an element at the given [index] or the result of calling the [defaultValue]
 * function if the [index]
 * is out of bounds of this sequence.
 */
* The operation is _terminal_.
@sample
samples.collections.Collections.Elements.elementAtOrElse
public fun <T>
    Sequence<T>.elementAtOrElse(index: Int, defaultValue: (Int -> T): T {
    if (index < 0)
        return
        defaultValue(index)
    val iterator = iterator()
    var count = 0
    while (iterator.hasNext()) {
        val element
        = iterator.next()
        if (index == count++)
            return element
    }
    return
    defaultValue(index)
}
/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of
 * this sequence.
 */
* The operation is _terminal_.
@sample

```

```

samples.collections.Collections.Elements.elementAtOrNull\n *^\npublic fun <T>
Sequence<T>.elementAtOrNull(index: Int): T? {\n  if (index < 0)\n    return null\n  val iterator = iterator()\n  var count = 0\n  while (iterator.hasNext()) {\n    val element = iterator.next()\n    if (index == count++)\n      return element\n  }\n  return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or
`null` if no such element was found.\n * The operation is _terminal_.\n *^\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Sequence<T>.find(predicate: (T) -> Boolean): T? {\n  return firstOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * The
operation is _terminal_.\n *^\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.findLast(predicate:
(T) -> Boolean): T? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the sequence is empty.\n * The operation is _terminal_.\n *^\npublic fun <T>
Sequence<T>.first(): T {\n  val iterator = iterator()\n  if (!iterator.hasNext())\n    throw
NoSuchElementException("Sequence is empty.")\n  return iterator.next()\n}\n\n/**\n * Returns the
first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is
found.\n * The operation is _terminal_.\n *^\npublic inline fun <T> Sequence<T>.first(predicate: (T) ->
Boolean): T {\n  for (element in this) if (predicate(element)) return element\n  throw
NoSuchElementException("Sequence contains no element matching the predicate.")\n}\n\n/**\n * Returns the first
element, or `null` if the sequence is empty.\n * The operation is _terminal_.\n *^\npublic fun <T>
Sequence<T>.firstOrNull(): T? {\n  val iterator = iterator()\n  if (!iterator.hasNext())\n    return null\n  return
iterator.next()\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not
found.\n * The operation is _terminal_.\n *^\npublic inline fun <T> Sequence<T>.firstOrNull(predicate: (T) ->
Boolean): T? {\n  for (element in this) if (predicate(element)) return element\n  return null\n}\n\n/**\n * Returns
first
index of [element], or -1 if the sequence does not contain element.\n * The operation is _terminal_.\n *^\npublic
fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.indexOf(element: T): Int {\n  var index = 0\n  for (item
in this) {\n    checkIndexOverflow(index)\n    if (element == item)\n      return index\n    index++\n  }\n  return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the sequence does
not contain such element.\n * The operation is _terminal_.\n *^\npublic inline fun <T>
Sequence<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n  var index = 0\n  for (item in this) {\n
checkIndexOverflow(index)\n    if (predicate(item))\n      return index\n    index++\n  }\n  return -
1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the sequence does not
contain such element.\n * The operation is _terminal_.\n *^\npublic inline fun
<T> Sequence<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n  var lastIndex = -1\n  var index = 0\n  for
(item in this) {\n    checkIndexOverflow(index)\n    if (predicate(item))\n      lastIndex = index\n    index++\n  }\n  return lastIndex\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException]
if the sequence is empty.\n * The operation is _terminal_.\n *^\npublic fun <T> Sequence<T>.last(): T {\n  val
iterator = iterator()\n  if (!iterator.hasNext())\n    throw NoSuchElementException("Sequence is empty.")\n  var
last = iterator.next()\n  while (iterator.hasNext())\n    last = iterator.next()\n  return last\n}\n\n/**\n *
Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n * The operation is _terminal_.\n *^\npublic inline fun <T> Sequence<T>.last(predicate: (T) -
> Boolean): T {\n  var last: T? = null\n  var found = false\n  for (element in this) {\n    if (predicate(element)) {\n      last = element\n      found = true\n    }\n  }\n  if (!found) throw NoSuchElementException("Sequence contains no element matching the predicate.")\n}\n\n@Suppress("UNCHECKED_CAST")\nreturn last as T\n}\n\n/**\n * Returns last index of [element], or -1 if the
sequence does not contain element.\n * The operation is _terminal_.\n *^\npublic fun
<@kotlin.internal.OnlyInputTypes T> Sequence<T>.lastIndexOf(element: T): Int {\n  var lastIndex = -1\n  var
index = 0\n  for (item in this) {\n    checkIndexOverflow(index)\n    if (element == item)\n      lastIndex =
index\n    index++\n  }\n  return lastIndex\n}\n\n/**\n * Returns the last element, or `null` if the sequence is
empty.\n * The operation is _terminal_.\n *^\npublic fun <T> Sequence<T>.lastOrNull(): T? {\n  val iterator =

```



sequence containing all elements that are instances of specified type parameter R.  
`Sequence<R>.filterIsInstance(): Sequence<R>`  
 The operation is `_intermediate_ and _stateless_`.  
`Sequence<R>.filterIsInstanceTo(destination: C): C`  
 The operation is `_terminal_`.  
`Sequence<R>.filterNot(predicate: (T) -> Boolean): Sequence<T>`  
 The operation is `_intermediate_ and _stateless_`.  
`Sequence<T>.filterNotNull(): Sequence<T>`  
 The operation is `_terminal_`.  
`Sequence<T>.filterNotNullTo(destination: C): C`  
 The operation is `_terminal_`.  
`Sequence<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C`  
 The operation is `_terminal_`.  
`Sequence<T>.filterTo(destination: C, predicate: (T) -> Boolean): C`  
 The operation is `_terminal_`.  
`Sequence<T>.take(n: Int): Sequence<T>`  
 The operation is `_intermediate_ and _stateless_`.  
`Sequence<T>.takeWhile(predicate: (T) -> Boolean): Sequence<T>`  
 The operation is `_intermediate_ and _stateful_`.  
`Sequence<T>.sorted(): Sequence<T>`  
 The operation is `_intermediate_ and _stateful_`.  
`Sequence<T>.sortedBy(selector: (T) -> R?): Sequence<T>`  
 The operation is `_intermediate_ and _stateful_`.  
`Sequence<T>.sortedByDescending(selector: (T) -> R?): Sequence<T>`  
 The operation is `_intermediate_ and _stateful_`.

that equal elements preserve their order relative to each other after sorting.

```

    * The operation is _intermediate_ and _stateful_.
    * public fun <T : Comparable<T>> Sequence<T>.sortedDescending(): Sequence<T> {
    return sortedWith(reverseOrder())
    * Returns a sequence that yields elements of this sequence sorted according to the specified [comparator].
    * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
    * The operation is _intermediate_ and _stateful_.
    * public fun <T> Sequence<T>.sortedWith(comparator: Comparator<in T>): Sequence<T> {
    return object : Sequence<T> {
    override fun iterator(): Iterator<T> {
    val sortedList = this@sortedWith.toMutableList()
    sortedList.sortWith(comparator)
    return sortedList.iterator()
    }
    }
    * Returns a [Map] containing key-value pairs provided by [transform] function applied to elements of the given sequence.
    * If any of two pairs would have the same key the last one gets added to the map.
    * The returned map preserves the entry iteration order of the original sequence.
    * The operation is _terminal_.
    * @sample samples.collections.Collections.Transformations.associate
    * public inline fun <T, K, V> Sequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {
    return associateTo(LinkedHashMap<K, V>(), transform)
    * Returns a [Map] containing the elements from the given sequence indexed by the key returned from [keySelector] function applied to each element.
    * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
    * The returned map preserves the entry iteration order of the original sequence.
    * The operation is _terminal_.
    * @sample samples.collections.Collections.Transformations.associateBy
    * public inline fun <T, K> Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> {
    return associateByTo(LinkedHashMap<K, T>(), keySelector)
    * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given sequence.
    * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
    * The returned map preserves the entry iteration order of the original sequence.
    * The operation is _terminal_.
    * @sample samples.collections.Collections.Transformations.associateByWithValueTransform
    * public inline fun <T, K, V> Sequence<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {
    return associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform)
    * Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given sequence and value is the element itself.
    * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
    * The operation is _terminal_.
    * @sample samples.collections.Collections.Transformations.associateByTo
    * public inline fun <T, K, M : MutableMap<in K, in T>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
    destination.put(keySelector(element), element)
    }
    return destination
    * Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function and value is provided by the [valueTransform] function applied to elements of the given sequence.
    * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
    * The operation is _terminal_.
    * @sample samples.collections.Collections.Transformations.associateByToWithValueTransform
    * public inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {
    for (element in this) {
    destination.put(keySelector(element), valueTransform(element))
    }
    return destination
    * Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given sequence.
    * If any of two pairs would have the same key the last one gets added to the map.
    * The operation is _terminal_.
    * @sample samples.collections.Collections.Transformations.associateTo
    * public inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {
    for (element in this) {
    destination += transform(element)
    }
    return destination
    * Returns a [Map] where keys are
  
```

elements from the given sequence and values

are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original sequence. The operation is `_terminal_`. @sample

```
samples.collections.Collections.Transformations.associateWith
```

`public inline fun <K, V> Sequence<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {`  
 `val result = LinkedHashMap<K, V>()`  
 `return associateWithTo(result, valueSelector)`  
`}`  
Populates and returns the [destination] mutable map with key-value pairs for each element of the given sequence, where key is the element itself and value is provided by the [valueSelector] function applied to that key. If any two elements are equal, the last one overwrites the former value in the map. The operation is `_terminal_`. @sample

```
samples.collections.Collections.Transformations.associateWithTo
```

`* public inline fun <K, V, M : MutableMap<in K, in V>>`  
`Sequence<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {`  
 `for (element in this) {`  
 `destination.put(element, valueSelector(element))`  
 `}`  
 `return destination`  
`}`  
Appends all elements to the given [destination] collection. The operation is `_terminal_`.  
`public fun <T, C : MutableCollection<in T>> Sequence<T>.toCollection(destination: C): C {`  
 `for (item in this) {`  
 `destination.add(item)`  
 `}`  
 `return destination`  
`}`  
Returns a [HashSet] of all elements. The operation is `_terminal_`.  
`public fun <T> Sequence<T>.toHashSet(): HashSet<T> {`  
 `return`  
`toCollection(HashSet<T>())`  
`}`  
Returns a [List] containing all elements. The operation is `_terminal_`.  
`public fun <T> Sequence<T>.toList(): List<T> {`  
 `return`  
`this.toMutableList().optimizeReadOnlyList()`  
`}`  
Returns a [MutableList] filled with all elements of this sequence. The operation is `_terminal_`.  
`public fun <T>`

```
Sequence<T>.toMutableList(): MutableList<T> {
```

`return toCollection(ArrayList<T>())`  
`}`  
Returns a [Set] of all elements. The returned set preserves the element iteration order of the original sequence. The operation is `_terminal_`.  
`public fun <T> Sequence<T>.toSet(): Set<T> {`  
 `return`  
`toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()`  
`}`  
Returns a single sequence of all elements from results of [transform] function being invoked on each element of original sequence. The operation is `_intermediate_` and `_stateless_`. @sample  
`samples.collections.Collections.Transformations.flatMap`  
`* public fun <T, R> Sequence<T>.flatMap(transform: (T) -> Sequence<R>): Sequence<R> {`  
 `return`  
`FlatteningSequence(this, transform, { it.iterator() })`  
`}`  
Appends all elements yielded from results of [transform] function

being invoked on each element of original sequence, to the given [destination]. The operation is `_terminal_`.  
`public inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C,`  
`transform: (T) -> Sequence<R>): C {`  
 `for (element in this) {`  
 `val list = transform(element)`  
 `destination.addAll(list)`  
 `}`  
 `return destination`  
`}`  
Groups elements of the original sequence by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements. The returned map preserves the entry iteration order of the keys produced from the original sequence. The operation is `_terminal_`. @sample  
`samples.collections.Collections.Transformations.groupBy`  
`* public inline fun <T, K>`

```
Sequence<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {
```

`return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)`  
`}`  
Groups values returned by the [valueTransform] function applied to each element of the original sequence by the key returned by the given [keySelector] function applied to the element and returns a map where each group key is associated with a list of corresponding values. The returned map preserves the entry iteration order of the keys produced from the original sequence. The operation is `_terminal_`. @sample  
`samples.collections.Collections.Transformations.groupByKeysAndValues`  
`* public inline fun <T, K, V>`  
`Sequence<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {`  
 `return`  
`groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)`  
`}`  
Groups elements

of the original sequence by the key returned by the given [keySelector] function\n \* applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n \* \n \* @return The [destination] map.\n \* \n \* The operation is \_terminal\_.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \* \n \* public inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<T>() }\n list.add(element)\n }\n return destination\n}\n \* \n \* Groups values returned by the [valueTransform] function applied to each element of the original sequence\n \* by the key returned by the given [keySelector] function applied to the element\n \* and puts to the [destination] map each group key associated with a list of corresponding values.\n \* \n \* @return The [destination] map.\n \* \n \* The operation is \_terminal\_.\n \* \n \* @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n \* \n \* public inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n \* \n \* Creates a [Grouping] source from a sequence to be used later with one of group-and-fold operations\n \* using the specified [keySelector] function to extract a key from each element.\n \* \n \* The operation is \_intermediate\_ and \_stateless\_.\n \* \n \* @sample samples.collections.Grouping.groupingByEachCount\n \* \n \* @SinceKotlin("1.1")\n \* public inline fun <T, K> Sequence<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n return object : Grouping<T, K> {\n override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n override fun keyOf(element: T): K = keySelector(element)\n }\n}\n \* \n \* Returns a sequence containing the results of applying the given [transform] function\n \* to each element in the original sequence.\n \* \n \* The operation is \_intermediate\_ and \_stateless\_.\n \* \n \* @sample samples.collections.Collections.Transformations.map\n \* \n \* public fun <T, R> Sequence<T>.map(transform: (T) -> R): Sequence<R> {\n return TransformingSequence(this, transform)\n}\n \* \n \* Returns a sequence containing the results of applying the given [transform] function\n \* to each element and its index in the original sequence.\n \* \n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \* \n \* The operation is \_intermediate\_ and \_stateless\_.\n \* \n \* public fun <T, R> Sequence<T>.mapIndexed(transform: (index: Int, T) -> R): Sequence<R> {\n return TransformingIndexedSequence(this, transform)\n}\n \* \n \* Returns a sequence containing only the non-null results of applying the given [transform] function\n \* to each element and its index in the original sequence.\n \* \n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \* \n \* The operation is \_terminal\_.\n \* \n \* public inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n return destination\n}\n \* \n \* Applies the given [transform] function to each element and its index in the original sequence\n \* and appends the results to the given [destination].\n \* \n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \* \n \* The operation is \_terminal\_.\n \* \n \* public inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n

```

var index = 0\n  for (item in this)\n    destination.add(transform(checkIndexOverflow(index++), item))\n  return
destination\n}\n\n/**\n * Returns a sequence containing only the non-null results of applying the given [transform]
function\n * to each element in the original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n *\npublic fun <T, R : Any> Sequence<T>.mapNotNull(transform: (T) -> R?):
Sequence<R> {\n  return TransformingSequence(this, transform).filterNotNull()\n}\n\n/**\n * Applies the given
[transform] function to each element in the original sequence\n * and appends only the non-null results to the given
[destination].\n *\n * The operation is _terminal_.\n *\n *\npublic inline fun <T, R : Any, C : MutableCollection<in
R>> Sequence<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n  forEach { element ->
transform(element)?.let { destination.add(it) } }\n  return destination\n}\n\n/**\n * Applies the given [transform]
function to each element of the original sequence\n * and appends the results to the given [destination].\n *\n * The
operation is _terminal_.\n *\n *\npublic inline fun <T, R, C : MutableCollection<in R>>
Sequence<T>.mapTo(destination: C, transform: (T) -> R): C {\n  for (item in this)\n
destination.add(transform(item))\n  return destination\n}\n\n/**\n * Returns a sequence that wraps each element of
the original sequence\n *
into an [IndexedValue] containing the index of that element and the element itself.\n *\n * The operation is
_intermediate_ and _stateless_.\n *\n *\npublic fun <T> Sequence<T>.withIndex(): Sequence<IndexedValue<T>> {\n
return IndexingSequence(this)\n}\n\n/**\n * Returns a sequence containing only distinct elements from the given
sequence.\n *\n * The elements in the resulting sequence are in the same order as they were in the source
sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n *\n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *\n *\npublic fun <T>
Sequence<T>.distinct(): Sequence<T> {\n  return this.distinctBy { it }\n}\n\n/**\n * Returns a sequence
containing only elements from the given sequence\n * having distinct keys returned by the given [selector]
function.\n *\n * The elements in the resulting sequence are in the same order as they were in the source
sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n *\n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *\n *\npublic fun <T, K>
Sequence<T>.distinctBy(selector: (T) -> K): Sequence<T> {\n  return DistinctSequence(this, selector)\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given sequence.\n *\n * The returned set preserves
the element iteration order of the original sequence.\n *\n * The operation is _terminal_.\n *\n *\npublic fun <T>
Sequence<T>.toMutableSet(): MutableSet<T> {\n  val set = LinkedHashSet<T>()\n  for (item in this)
set.add(item)\n  return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n *\n * The
operation is _terminal_.\n *\n * @sample samples.collections.Collections.Aggregates.all\n *\n *\npublic inline fun
<T> Sequence<T>.all(predicate: (T) -> Boolean): Boolean {\n  for (element in this) if (!predicate(element)) return
false\n  return true\n}\n\n/**\n * Returns `true` if sequence has at least one element.\n *\n *
The operation is _terminal_.\n *\n * @sample samples.collections.Collections.Aggregates.any\n *\n *\npublic fun
<T> Sequence<T>.any(): Boolean {\n  return iterator().hasNext()\n}\n\n/**\n * Returns `true` if at least one
element matches the given [predicate].\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n *\n *\npublic inline fun <T>
Sequence<T>.any(predicate: (T) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return
true\n  return false\n}\n\n/**\n * Returns the number of elements in this sequence.\n *\n * The operation is
_terminal_.\n *\n *\npublic fun <T> Sequence<T>.count(): Int {\n  var count = 0\n  for (element in this)
checkCountOverflow(++count)\n  return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n *\n * The operation is _terminal_.\n *\n *\npublic inline fun <T> Sequence<T>.count(predicate: (T) ->
Boolean): Int {\n  var count = 0\n  for
(element in this) if (predicate(element)) checkCountOverflow(++count)\n  return count\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from left to right to current accumulator value and each
element.\n *\n * The operation is _terminal_.\n *\n *\npublic inline fun <T, R> Sequence<T>.fold(initial: R, operation:
(acc: R, T) -> R): R {\n  var accumulator = initial\n  for (element in this) accumulator = operation(accumulator,
element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying

```



```

iterator.next()\n    if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if
there are no elements.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Aggregates.minBy\n *\npublic inline fun <T, R : Comparable<R>>
Sequence<T>.minBy(selector: (T) -> R): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minElem = iterator.next()\n    if (!iterator.hasNext()) return minElem\n    var minValue = selector(minElem)\n    do {\n        val e = iterator.next()\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    } while (iterator.hasNext())\n    return minElem\n}\n\n/**\n * Returns the first element
having the smallest value according to the provided [comparator] or `null` if there are no elements.\n *\n * The
operation is _terminal_.\n *\npublic fun <T> Sequence<T>.minWith(comparator: Comparator<in T>): T? {\n
    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    while
(iterator.hasNext()) {\n        val e = iterator.next()\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return
min\n}\n\n/**\n * Returns `true` if the sequence has no elements.\n *\n * The operation is _terminal_.\n *\n *
@sample samples.collections.Collections.Aggregates.none\n *\npublic fun <T> Sequence<T>.none(): Boolean {\n
    return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n *\n * The
operation is _terminal_.\n *\n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n
*\npublic inline fun <T> Sequence<T>.none(predicate: (T) -> Boolean): Boolean {\n    for (element in this) if
(predicate(element)) return false\n    return true\n}\n\n/**\n * Returns a sequence which performs the given [action]
on each element of the original sequence as they pass through it.\n *\n * The operation
is _intermediate_ and _stateless_.\n *\n * @SinceKotlin("1.1")\npublic fun <T> Sequence<T>.onEach(action: (T) -
> Unit): Sequence<T> {\n    return map {\n        action(it)\n        it\n    }\n}\n\n/**\n * Accumulates value starting
with the first element and applying [operation] from left to right to current accumulator value and each element.\n
*\n * The operation is _terminal_.\n *\n * @sample samples.collections.Collections.Aggregates.reduce\n *\npublic
inline fun <S, T : S> Sequence<T>.reduce(operation: (acc: S, T) -> S): S {\n    val iterator = this.iterator()\n
    if (!iterator.hasNext()) throw UnsupportedOperationException("Empty sequence can't be reduced.")\n    var
accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator = operation(accumulator,
iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and
applying [operation] from left to right\n * to current accumulator value and each
element with its index in the original sequence.\n *\n * @param [operation] function that takes the index of an element,
current accumulator value\n * and the element itself and calculates the next accumulator value.\n *\n * The
operation is _terminal_.\n *\n * @sample samples.collections.Collections.Aggregates.reduce\n *\npublic inline fun
<S, T : S> Sequence<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n    val iterator = this.iterator()\n
    if (!iterator.hasNext()) throw UnsupportedOperationException("Empty sequence can't be reduced.")\n    var index
= 1\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator =
operation(checkIndexOverflow(index++), accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n *
Accumulates value starting with the first element and applying [operation] from left to right to current accumulator
value and each element. Returns null if the sequence is empty.\n *\n * The operation is
_terminal_.\n *\n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n * @SinceKotlin("1.3")\n * @ExperimentalStdlibApi\npublic inline fun <S, T : S>
Sequence<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n    val iterator = this.iterator()\n    if
(!iterator.hasNext()) return null\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n
        accumulator = operation(accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Returns a sequence
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n *\n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n *\n * The
[initial] value should also be immutable (or should not be mutated)\n * as it may be passed to [operation] function
later because of sequence's lazy

```





```

Sequence<T>.minus(elements: Sequence<T>): Sequence<T> {\n    return object: Sequence<T> {\n        override fun
iterator(): Iterator<T> {\n            val other = elements.toHashSet()\n            if (other.isEmpty())\n                return
this@minus.iterator()\n            else\n                return this@minus.filterNot { it in other }.iterator()\n        }\n    }\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence without the first occurrence of
the given [element].\n *\n * The operation is _intermediate_ and
_stateless_.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minusElement(element: T):
Sequence<T> {\n    return minus(element)\n}\n\n/**\n * Splits the original sequence into pair of lists,\n * where
*first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for
which [predicate] yielded `false`.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T>
Sequence<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n    val first = ArrayList<T>()\n    val
second = ArrayList<T>()\n    for (element in this) {\n        if (predicate(element)) {\n            first.add(element)\n
        } else {\n            second.add(element)\n        }\n    }\n    return Pair(first, second)\n}\n\n/**\n * Returns a sequence
containing all elements of the original sequence and then the given [element].\n *\n * The operation is
_intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(element:
T): Sequence<T> {\n    return sequenceOf(this, sequenceOf(element)).flatten()\n}\n\n/**\n * Returns a sequence
containing all elements of original sequence and then all elements of the given [elements] array.\n *\n * Note that
the source sequence and the array being added are iterated only when an `iterator` is requested from\n * the resulting
sequence. Changing any of them between successive calls to `iterator` may affect the result.\n *\n * The operation is
_intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(elements: Array<out T>):
Sequence<T> {\n    return this.plus(elements.asList())\n}\n\n/**\n * Returns a sequence containing all elements of
original sequence and then all elements of the given [elements] collection.\n *\n * Note that the source sequence
and the collection being added are iterated only when an `iterator` is requested from\n * the resulting sequence.
Changing any of them between successive calls to `iterator` may affect the result.\n *\n * The operation is
_intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(elements:
Iterable<T>): Sequence<T> {\n    return sequenceOf(this, elements.asSequence()).flatten()\n}\n\n/**\n * Returns a
sequence containing all elements of original sequence and then all elements of the given [elements] sequence.\n *\n *
Note that the source sequence and the sequence being added are iterated only when an `iterator` is requested
from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n
*\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(elements:
Sequence<T>): Sequence<T> {\n    return sequenceOf(this, elements).flatten()\n}\n\n/**\n * Returns a sequence
containing all elements of the original sequence and then the given [element].\n *\n * The operation is
_intermediate_ and _stateless_.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Sequence<T>.plusElement(element:
T): Sequence<T> {\n    return plus(element)\n}\n\n/**\n * Returns a sequence of snapshots of the window of the
given [size]\n * sliding along this sequence with the given [step], where each\n * snapshot is a list.\n *\n * Several
last lists may have less elements than the given [size].\n *\n * Both [size] and [step] must be positive and can be
greater than the number of elements in this sequence.\n * @param size the number of elements to take in each
window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n *
@param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false`
which means partial windows won't be preserved\n * \n * @sample
samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin("1.2")\npublic fun <T>
Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<List<T>> {\n    return
windowedSequence(size, step,
    partialWindows, reuseBuffer = false)\n}\n\n/**\n * Returns a sequence of results of applying the given [transform]
function to\n * an each list representing a view over the window of the given [size]\n * sliding along this sequence
with the given [step].\n *\n * Note that the list passed to the [transform] function is ephemeral and is valid only
inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of
it.\n * Several last lists may have less elements than the given [size].\n *\n * Both [size] and [step] must be positive

```

and can be greater than the number of elements in this sequence.

- `@param size` the number of elements to take in each window
- `@param step` the number of elements to move the window forward by on an each step, by default 1
- `@param partialWindows` controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved
- `@sample`

```
samples.collections.Sequences.Transformations.averageWindows
```

```

*^@SinceKotlin("1.2")\npublic fun <T, R> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): Sequence<R> {
    return windowedSequence(size, step, partialWindows, reuseBuffer = true).map(transform)
}

```

Returns a sequence of values built from the elements of `this` sequence and the `[other]` sequence with the same index. The resulting sequence ends as soon as the shortest input sequence ends.

- The operation is `_intermediate_` and `_stateless_`.
- `@sample`

```
samples.collections.Sequences.Transformations.zip
```

```

*^@SinceKotlin("1.2")\npublic infix fun <T, R> Sequence<T>.zip(other: Sequence<R>): Sequence<Pair<T, R>> {
    return MergingSequence(this, other) { t1, t2 -> t1 to t2 }
}

```

Returns a sequence of values built from the elements of `this` sequence and the `[other]` sequence with the same index using the provided `[transform]` function applied to each pair of elements. The resulting sequence ends as soon as the shortest input sequence ends.

- The operation is `_intermediate_` and `_stateless_`.
- `@sample`

```
samples.collections.Sequences.Transformations.zipWithTransform
```

```

*^@SinceKotlin("1.2")\npublic fun <T, R, V> Sequence<T>.zipWithTransform(other: Sequence<R>, transform: (a: T, b: R) -> V): Sequence<V> {
    return MergingSequence(this, other, transform)
}

```

Returns a sequence of pairs of each two adjacent elements in this sequence. The returned sequence is empty if this sequence contains less than two elements.

- The operation is `_intermediate_` and `_stateless_`.
- `@sample`

```
samples.collections.Collections.Transformations.zipWithNext
```

```

*^@SinceKotlin("1.2")\npublic fun <T> Sequence<T>.zipWithNext(): Sequence<Pair<T, T>> {
    return zipWithNext { a, b -> a to b }
}

```

Returns a sequence containing the results of applying the given `[transform]` function to an each pair of two adjacent elements in this sequence.

- The returned sequence is empty if this sequence contains less than two elements.
- The operation is `_intermediate_` and `_stateless_`.
- `@sample`

```
samples.collections.Collections.Transformations.zipWithNextToFindDeltas
```

```

*^@SinceKotlin("1.2")\npublic fun <T, R> Sequence<T>.zipWithNext(transform: (a: T, b: T) -> R): Sequence<R> {
    return sequenceResult {
        val iterator = iterator()
        if (!iterator.hasNext()) return @result
        var current = iterator.next()
        while (iterator.hasNext()) {
            val next = iterator.next()
            yield(transform(current, next))
            current = next
        }
    }
}

```

Appends the string from all the elements separated using `[separator]` and using the given `[prefix]` and `[postfix]` if supplied. If the collection could be huge, you can specify a non-negative value of `[limit]`, in which case only the first `[limit]` elements will be appended, followed by the `[truncated]` string (which defaults to `"..."`).

- The operation is `_terminal_`.
- `@sample`

```
samples.collections.Collections.Transformations.joinTo
```

```

*^@SinceKotlin("1.2")\npublic fun <T, A : Appendable> Sequence<T>.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            buffer.appendElement(element, transform)
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

```

Creates a string from all the elements separated using `[separator]` and using the given `[prefix]` and `[postfix]` if supplied. If the collection could be huge, you can specify a non-negative value of `[limit]`, in which case only the first `[limit]` elements will be appended, followed by the `[truncated]` string (which defaults to `"..."`).

- The operation is `_terminal_`.
- `@sample`

```
samples.collections.Collections.Transformations.joinToString
```

```

*^@SinceKotlin("1.2")\npublic fun <T> Sequence<T>.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform)
}

```

```

Sequence<T>.joinToString(separator: CharSequence = "\", \"", prefix: CharSequence = "\", postfix: CharSequence =
\"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): String {\n    return
joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates an
[Iterable] instance that wraps the original sequence returning its elements when being iterated.\n */\npublic fun <T>
Sequence<T>.asIterable(): Iterable<T> {\n    return Iterable { this.iterator() }\n}\n\n/**\n * Returns this sequence as
a [Sequence].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.asSequence(): Sequence<T>
{\n    return this\n}\n\n/**\n * Returns
an average value of elements in the sequence.\n */\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName(\"averageOfByte\")\npublic fun Sequence<Byte>.average(): Double {\n    var sum:
Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the sequence.\n */\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName(\"averageOfShort\")\npublic fun Sequence<Short>.average(): Double {\n    var sum:
Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the sequence.\n */\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName(\"averageOfInt\")\npublic fun Sequence<Int>.average(): Double {\n    var sum: Double
= 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the sequence.\n */\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName(\"averageOfLong\")\npublic fun Sequence<Long>.average(): Double {\n    var sum:
Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the sequence.\n */\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName(\"averageOfFloat\")\npublic fun Sequence<Float>.average(): Double {\n    var sum:
Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the sequence.\n */\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName(\"averageOfDouble\")\npublic fun Sequence<Double>.average(): Double {\n    var sum:
Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
the sum of all elements in the sequence.\n */\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName(\"sumOfByte\")\npublic fun Sequence<Byte>.sum(): Int {\n    var sum: Int = 0\n    for
(element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the
sequence.\n */\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName(\"sumOfShort\")\npublic fun
Sequence<Short>.sum(): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all elements
in the sequence.\n */\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName(\"sumOfInt\")\npublic fun
Sequence<Int>.sum(): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n */\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName(\"sumOfLong\")\npublic fun Sequence<Long>.sum(): Long {\n    var sum: Long = 0L\n
for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in
the sequence.\n */\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName(\"sumOfFloat\")\npublic fun
Sequence<Float>.sum(): Float {\n    var sum: Float = 0.0f\n    for (element in this) {\n        sum += element\n    }\n
return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n */\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName(\"sumOfDouble\")\npublic fun Sequence<Double>.sum(): Double {\n    var sum:
Double = 0.0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n\", \"*/\n * Copyright 2010-
2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the

```

Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

```
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SetsKt\")\n\npackage
```

```
kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
```

```
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport kotlin.random.*\nimport
```

```
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns a set containing all elements of the original set except the given [element].\n * \n * The returned set preserves the element iteration order of the original set.\n
```

```
*/\npublic operator fun <T> Set<T>.minus(element: T): Set<T> {\n    val result =
```

```
LinkedHashSet<T>(mapCapacity(size))\n    var removed = false\n    return this.filterTo(result)
```

```
{ if (!removed && it == element) { removed = true; false } else true }\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] array.\n * \n * The returned set
```

```
preserves the element iteration order of the original set.\n * \n * The [elements] array may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T>
```

```
Set<T>.minus(elements: Array<out T>): Set<T> {\n    val result = LinkedHashSet<T>(this)\n
```

```
result.removeAll(elements)\n    return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] collection.\n * \n * The returned set preserves the element
```

```
iteration order of the original set.\n * \n * The [elements] collection may be converted to a [HashSet]
```

```
to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of
```

```
`hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T>
```

```
Set<T>.minus(elements: Iterable<T>): Set<T> {\n    val other = elements.convertToSetForSetOperationWith(this)\n
```

```
if (other.isEmpty())\n    return this.toSet()\n    if (other is Set)\n        return
```

```
this.filterNotTo(LinkedHashSet<T>()) { it in other }\n    val result = LinkedHashSet<T>(this)\n
```

```
result.removeAll(other)\n    return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] sequence.\n * \n * The returned set preserves the element
```

```
iteration order of the original set.\n * \n * The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that
```

```
doesn't change between successive
```

```
invocations.\n */\npublic operator fun <T> Set<T>.minus(elements: Sequence<T>): Set<T> {\n    val result =
```

```
LinkedHashSet<T>(this)\n    result.removeAll(elements)\n    return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the given [element].\n * \n * The returned set preserves the element iteration
```

```
order of the original set.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>.minusElement(element: T): Set<T> {\n    return minus(element)\n}\n\n/**\n * Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.\n * \n * The returned set preserves the element iteration order
```

```
of the original set.\n */\npublic operator fun <T> Set<T>.plus(element: T): Set<T> {\n    val result =
```

```
LinkedHashSet<T>(mapCapacity(size + 1))\n    result.addAll(this)\n    result.add(element)\n    return
```

```
result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements] array,\n
```

```
* which aren't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n
```

```
*/\npublic operator fun <T> Set<T>.plus(elements: Array<out T>): Set<T> {\n    val result =
```

```
LinkedHashSet<T>(mapCapacity(this.size + elements.size))\n    result.addAll(this)\n    result.addAll(elements)\n
```

```
return result\n}\n\n/**\n * Returns a set containing all elements\n * of the original set and the given [elements]
```

```
collection,\n * which aren't already in this set.\n * \n * The returned set preserves the element iteration order of the
```

```
original set.\n */\npublic operator fun <T> Set<T>.plus(elements: Iterable<T>): Set<T> {\n    val result =
```

```
LinkedHashSet<T>(mapCapacity(elements.collectionSizeOrNull()?.let { this.size + it } ?: this.size * 2))\n
```

```
result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements] sequence,\n * which aren't already in this set.\n * \n
```

```
* The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T>
```

```
Set<T>.plus(elements: Sequence<T>): Set<T> {\n    val result = LinkedHashSet<T>(mapCapacity(this.size * 2))\n
```

```
result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a set containing all elements of
```

the original set and then the given [element] if it isn't already in this set.\n \* \n \* The returned set preserves the element iteration order of the original set.\n \*  
`@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>.plusElement(element: T): Set<T> {\n return plus(element)\n}\n\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage kotlin.text\n\n// NOTE: THIS FILE IS AUTO-GENERATED  
by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n * Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n *  
\npublic expect fun CharSequence.elementAt(index: Int): Char\n\n * Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n *  
@kotlin.internal.InlineOnly\npublic inline fun CharSequence.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n * Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n *  
@kotlin.internal.InlineOnly\npublic inline fun CharSequence.elementAtOrNull(index: Int): Char? {\n return this.getOrNull(index)\n}\n\n * Returns the first character matching the given [predicate], or `null` if no such character was found.\n\n *  
@kotlin.internal.InlineOnly\npublic inline fun CharSequence.find(predicate: (Char) -> Boolean): Char? {\n return firstOrNull(predicate)\n}\n\n * Returns the last character matching the given [predicate], or `null` if no such character was found.\n\n *  
@kotlin.internal.InlineOnly\npublic inline fun CharSequence.findLast(predicate: (Char) -> Boolean): Char? {\n return lastOrNull(predicate)\n}\n\n * Returns first character.\n * @throws [NoSuchElementException] if the char sequence is empty.\n\n *  
\npublic fun CharSequence.first(): Char {\n if (isEmpty())\n throw NoSuchElementException("Char sequence is empty.")\n return this[0]\n}\n\n * Returns the first character matching the given [predicate].\n * @throws [NoSuchElementException] if no such character is found.\n\n *  
\npublic inline fun CharSequence.first(predicate: (Char) -> Boolean): Char {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException("Char sequence contains no character matching the predicate.")\n}\n\n * Returns the first character, or `null` if the char sequence is empty.\n\n *  
\npublic fun CharSequence.firstOrNull(): Char? {\n return if (isEmpty()) null else this[0]\n}\n\n * Returns the first character matching the given [predicate], or `null` if character was not found.\n\n *  
\npublic inline fun CharSequence.firstOrNull(predicate: (Char) -> Boolean): Char? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n * Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.\n\n *  
@kotlin.internal.InlineOnly\npublic inline fun CharSequence.getOrNull(index: Int, defaultValue: (Int) -> Char): Char {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n * Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.\n\n *  
\npublic fun CharSequence.getOrNull(index: Int): Char? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n * Returns index of the first character matching the given [predicate], or -1 if the char sequence does not contain such character.\n\n *  
\npublic inline fun CharSequence.indexOfFirst(predicate: (Char) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n * Returns index of the last character matching the given [predicate], or -1 if the char sequence does not contain such character.\n\n *  
\npublic inline fun CharSequence.indexOfLast(predicate: (Char) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n * Returns the last character.\n * @throws [NoSuchElementException] if the char sequence is empty.\n\n *  
\npublic fun CharSequence.last(): Char {\n if (isEmpty())\n throw`

```

NoSuchElementException("Char sequence is empty.")\n    return this[lastIndex]\n}\n\n/**\n * Returns the last character matching the given [predicate].\n * @throws [NoSuchElementException] if no such character is found.\n */\npublic inline fun CharSequence.last(predicate: (Char) -> Boolean): Char {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException("Char sequence contains no character matching the predicate.")\n}\n\n/**\n * Returns the last character, or `null` if the char sequence is empty.\n */\npublic fun CharSequence.lastOrNull(): Char? {\n    return if (isEmpty()) null else this[length - 1]\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null` if no such character was found.\n */\npublic inline fun CharSequence.lastOrNull(predicate: (Char) -> Boolean): Char? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns a random character from this char sequence.\n * \n * @throws NoSuchElementException if this char sequence is empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.random(): Char {\n    return random(Random)\n}\n\n/**\n * Returns a random character from this char sequence using the specified source of randomness.\n * \n * @throws NoSuchElementException if this char sequence is empty.\n */\n@SinceKotlin("1.3")\npublic fun CharSequence.random(random: Random): Char {\n    if (isEmpty())\n        throw NoSuchElementException("Char sequence is empty.")\n    return\n    get(random.nextInt(length))\n}\n\n/**\n * Returns a random character from this char sequence, or `null` if this char sequence is empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.randomOrNull(): Char? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random character from this char sequence using the specified source of randomness, or `null` if this char sequence is empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun CharSequence.randomOrNull(random: Random): Char? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(length))\n}\n\n/**\n * Returns the single character, or throws an exception if the char sequence is empty or has more than one character.\n */\npublic fun CharSequence.single(): Char {\n    return when (length) {\n        0 -> throw\n        NoSuchElementException("Char sequence\n        is empty.")\n        1 -> this[0]\n        else -> throw IllegalArgumentException("Char sequence has more than one\n        element.")\n    }\n}\n\n/**\n * Returns the single character matching the given [predicate], or throws exception if there is no or more than one matching character.\n */\npublic inline fun CharSequence.single(predicate: (Char) -> Boolean): Char {\n    var single: Char? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Char sequence contains more than one\n            matching element.")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw\n    NoSuchElementException("Char sequence contains no character matching the predicate.")\n}\n\n@Suppress("UNCHECKED_CAST")\nreturn single as Char\n}\n\n/**\n * Returns single character, or `null` if the char sequence is empty or has more than one character.\n */\npublic fun CharSequence.singleOrNull(): Char? {\n    return if (length == 1) this[0] else null\n}\n\n/**\n * Returns the single character matching the given [predicate], or `null` if character was not found or more than one character was found.\n */\npublic inline fun CharSequence.singleOrNull(predicate: (Char) -> Boolean): Char? {\n    var single: Char? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns a subsequence of this char sequence with the first [n] characters removed.\n * \n * @throws\n    IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun CharSequence.drop(n: Int): CharSequence {\n    require(n >= 0) { "Requested character count $n is less than zero." }\n    return subSequence(n.coerceAtMost(length), length)\n}\n\n/**\n * Returns a string with the first [n] characters removed.\n * \n * @throws\n    IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun String.drop(n: Int): String {\n    require(n >= 0) { "Requested character count $n is less than zero." }\n    return substring(n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence with the last [n] characters removed.\n * \n * @throws\n    IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun CharSequence.dropLast(n: Int):

```

```

CharSequence {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return take((length - n).coerceAtLeast(0))
}

Returns a string with the last [n] characters removed.
@throws IllegalArgumentException if [n] is negative.
@sample samples.text.Strings.dropLast(n)

public fun String.dropLast(n: Int): String {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return take((length - n).coerceAtLeast(0))
}

Returns a subsequence of this char sequence containing all characters except last characters that satisfy the given [predicate].
@sample samples.text.Strings.dropLastWhile(predicate)

public inline fun CharSequence.dropLastWhile(predicate: (Char) -> Boolean): CharSequence {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return subSequence(0, index + 1)
    return ""
}

Returns a string containing all characters except last characters that satisfy the given [predicate].
@sample samples.text.Strings.dropLastWhile(predicate)

public inline fun String.dropLastWhile(predicate: (Char) -> Boolean): String {
    for (index in lastIndex downTo 0)
        if (!predicate(this[index]))
            return substring(0, index + 1)
    return ""
}

Returns a subsequence of this char sequence containing all characters except first characters that satisfy the given [predicate].
@sample samples.text.Strings.dropWhile(predicate)

public inline fun CharSequence.dropWhile(predicate: (Char) -> Boolean): CharSequence {
    for (index in this.indices)
        if (!predicate(this[index]))
            return subSequence(index, length)
    return ""
}

Returns a string containing all characters except first characters that satisfy the given [predicate].
@sample samples.text.Strings.dropWhile(predicate)

public inline fun String.dropWhile(predicate: (Char) -> Boolean): String {
    for (index in this.indices)
        if (!predicate(this[index]))
            return substring(index)
    return ""
}

Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].
public inline fun CharSequence.filter(predicate: (Char) -> Boolean): CharSequence {
    return filterTo(StringBuilder(), predicate)
}

Returns a string containing only those characters from the original string that match the given [predicate].
public inline fun String.filter(predicate: (Char) -> Boolean): String {
    return filterTo(StringBuilder(), predicate).toString()
}

Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].
@param [predicate] function that takes the index of a character and the character itself
and returns the result of predicate evaluation on the character.
public inline fun CharSequence.filterIndexed(predicate: (index: Int, Char) -> Boolean): CharSequence {
    return filterIndexedTo(StringBuilder(), predicate)
}

Returns a string containing only those characters from the original string that match the given [predicate].
@param [predicate] function that takes the index of a character and the character itself
and returns the result of predicate evaluation on the character.
public inline fun String.filterIndexed(predicate: (index: Int, Char) -> Boolean): String {
    return filterIndexedTo(StringBuilder(), predicate).toString()
}

Appends all characters matching the given [predicate] to the given [destination].
@param [predicate] function that takes the index of a character and the character itself
and returns the result of predicate evaluation on the character.
public inline fun <C : Appendable> CharSequence.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element))
            destination.append(element)
    }
    return destination
}

Returns a char sequence containing only those characters from the original char sequence that do not match the given [predicate].
public inline fun CharSequence.filterNot(predicate: (Char) -> Boolean): CharSequence {
    return filterNotTo(StringBuilder(), predicate)
}

Returns a string containing only those characters from the original string that do not match the given [predicate].
public inline fun String.filterNot(predicate: (Char) -> Boolean): String {
    return filterNotTo(StringBuilder(), predicate).toString()
}

Appends all characters not matching the given [predicate] to the given [destination].
public inline fun <C : Appendable> CharSequence.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {
    for (element in this)
        if (!predicate(element))
            destination.append(element)
    return destination
}

Appends all characters matching the given [predicate] to the given [destination].
public inline fun <C : Appendable> CharSequence.filterTo(destination: C, predicate: (Char) -> Boolean): C {
    for (index in 0 until length) {
        val element = get(index)
        if (predicate(element))
            destination.append(element)
    }
    return
}

```

destination\n}\n\n/\*\*\n \* Returns a char sequence containing characters of the original char sequence at the specified range of [indices].\n

```

    *^public fun CharSequence.slice(indices: IntRange): CharSequence {
        if (indices.isEmpty()) return ""
        return subSequence(indices)\n}\n\n/**\n * Returns a string containing characters of the original string at the specified range of [indices].
    *^public fun String.slice(indices: IntRange): String {
        if (indices.isEmpty()) return ""
        return substring(indices)\n}\n\n/**\n * Returns a char sequence containing characters of the original char sequence at specified [indices].
    *^public fun CharSequence.slice(indices: Iterable<Int>): CharSequence {
        val size = indices.collectionSizeOrDefault(10)
        if (size == 0) return ""
        val result = StringBuilder(size)
        for (i in indices) {
            result.append(get(i))
        }
        return result\n}\n\n/**\n * Returns a string containing characters of the original string at specified [indices].
    *^@kotlin.internal.InlineOnly\npublic inline fun String.slice(indices: Iterable<Int>): String {
        return (this as CharSequence).slice(indices).toString()\n}\n\n/**\n * Returns a subsequence of this char sequence containing the first [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.
    * \n * @throws IllegalArgumentException if [n] is negative.
    * \n * @sample samples.text.Strings.take\n *^public fun CharSequence.take(n: Int): CharSequence {
        require(n >= 0) { "Requested character count $n is less than zero." }
        return subSequence(0, n.coerceAtMost(length))\n}\n\n/**\n * Returns a string containing the first [n] characters from this string, or the entire string if this string is shorter.
    * \n * @throws IllegalArgumentException if [n] is negative.
    * \n * @sample samples.text.Strings.take\n *^public fun String.take(n: Int): String {
        require(n >= 0) { "Requested character count $n is less than zero." }
        return substring(0, n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence containing the last [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.
    * \n * @throws IllegalArgumentException if [n] is negative.
    * \n * @sample samples.text.Strings.take\n *^public fun CharSequence.takeLast(n: Int): CharSequence {
        require(n >= 0) { "Requested character count $n is less than zero." }
        val length = length
        return subSequence(length - n.coerceAtMost(length), length)\n}\n\n/**\n * Returns a string containing the last [n] characters from this string, or the entire string if this string is shorter.
    * \n * @throws IllegalArgumentException if [n] is negative.
    * \n * @sample samples.text.Strings.take\n *^public fun String.takeLast(n: Int): String {
        require(n >= 0) { "Requested character count $n is less than zero." }
        val length = length
        return substring(length - n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence containing last characters that satisfy the given [predicate].
    * \n * @sample samples.text.Strings.take\n *^public inline fun CharSequence.takeLastWhile(predicate: (Char) -> Boolean): CharSequence {
        for (index in lastIndex downTo 0) {
            if (!predicate(this[index])) {
                return subSequence(index + 1, length)\n            }
        }
        return subSequence(0, length)\n}\n\n/**\n * Returns a string containing last characters that satisfy the given [predicate].
    * \n * @sample samples.text.Strings.take\n *^public inline fun String.takeLastWhile(predicate: (Char) -> Boolean): String {
        for (index in lastIndex downTo 0) {
            if (!predicate(this[index])) {
                return substring(index + 1)\n            }
        }
        return this\n}\n\n/**\n * Returns a subsequence of this char sequence containing the first characters that satisfy the given [predicate].
    * \n * @sample samples.text.Strings.take\n *^public inline fun CharSequence.takeWhile(predicate: (Char) -> Boolean): CharSequence {
        for (index in 0 until length) {
            if (!predicate(get(index))) {
                return subSequence(0, index)\n            }
        }
        return subSequence(0, length)\n}\n\n/**\n * Returns a string containing the first characters that satisfy the given [predicate].
    * \n * @sample samples.text.Strings.take\n *^public inline fun String.takeWhile(predicate: (Char) -> Boolean): String {
        for (index in 0 until length) {
            if (!predicate(get(index))) {
                return substring(0, index)\n            }
        }
        return this\n}\n\n/**\n * Returns a char sequence with characters in reversed order.
    *^public fun CharSequence.reversed(): CharSequence {
        return StringBuilder(this).reverse()\n}\n\n/**\n * Returns a string with characters in reversed order.
    *^@kotlin.internal.InlineOnly\npublic inline fun String.reversed(): String {
        return (this as CharSequence).reversed().toString()\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function
    * \n * applied to characters of the

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given char sequence.

If any of two pairs would have the same key the last one gets added to the map.

The returned map preserves the entry iteration order of the original char sequence.

@sample

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samples.text.Strings.associate
*/\npublic inline fun <K, V> CharSequence.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n    val capacity = mapCapacity(length).coerceAtLeast(16)\n    return
associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n/n/**\n * Returns a [Map] containing the characters
from the given char sequence indexed by the key\n * returned from [keySelector] function applied to each
character.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added
to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n * \n *
*/\n @sample samples.text.Strings.associateBy
*/\npublic inline fun <K> CharSequence.associateBy(keySelector:
(Char) -> K): Map<K, Char>
{\n    val capacity = mapCapacity(length).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K,
Char>(capacity), keySelector)\n}\n/n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to characters of the given char sequence.\n * \n * If any two
characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original char sequence.\n * \n * @sample
samples.text.Strings.associateByWithValueTransform
*/\npublic inline fun <K, V>
CharSequence.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n    val capacity
= mapCapacity(length).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n/n/**\n * Populates and returns the [destination] mutable map with key-value
pairs,\n * where key is provided by the [keySelector] function applied
to each character of the given char sequence\n * and value is the character itself.\n * \n * If any two characters
would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.text.Strings.associateByTo
*/\npublic inline fun <K, M : MutableMap<in K, in Char>>
CharSequence.associateByTo(destination: M, keySelector: (Char) -> K): M {\n    for (element in this) {\n
destination.put(keySelector(element), element)\n    }\n    return destination\n}\n/n/**\n * Populates and returns the
[destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n *
and value is provided by the [valueTransform] function applied to characters of the given char sequence.\n * \n * If any
two characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
*/\n @sample samples.text.Strings.associateByToWithValueTransform
*/\npublic inline fun <K, V, M :
MutableMap<in K,
in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M
{\n    for (element in this) {\n        destination.put(keySelector(element), valueTransform(element))\n    }\n    return
destination\n}\n/n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by
[transform] function applied to each character of the given char sequence.\n * \n * If any of two pairs would have
the same key the last one gets added to the map.\n * \n * @sample samples.text.Strings.associateTo
*/\npublic
inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateTo(destination: M, transform: (Char) ->
Pair<K, V>): M {\n    for (element in this) {\n        destination += transform(element)\n    }\n    return
destination\n}\n/n/**\n * Returns a [Map] where keys are characters from the given char sequence and values are\n
* produced by the [valueSelector] function applied to each character.\n * \n * If any two characters
are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the
original char sequence.\n * \n * @sample samples.text.Strings.associateWith
*/\n@SinceKotlin("1.3")\npublic
inline fun <V> CharSequence.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n    val result =
LinkedHashMap<Char, V>(mapCapacity(length).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n/n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
character of the given char sequence,\n * where key is the character itself and value is provided by the
[valueSelector] function applied to that key.\n * \n * If any two characters are equal, the last one overwrites the
former value in the map.\n * \n * @sample samples.text.Strings.associateWithTo
*/\n@SinceKotlin("1.3")\npublic inline fun <V, M : MutableMap<in Char, in V>>

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CharSequence.associateWithTo(destination: M, valueSelector: (Char) -> V):
M {\n  for (element in this) {\n    destination.put(element, valueSelector(element))\n  }\n  return
destination\n}\n\n/**\n * Appends all characters to the given [destination] collection.\n */\npublic fun <C :
MutableCollection<in Char>> CharSequence.toCollection(destination: C): C {\n  for (item in this) {\n
destination.add(item)\n  }\n  return destination\n}\n\n/**\n * Returns a [HashSet] of all characters.\n */\npublic
fun CharSequence.toHashSet(): HashSet<Char> {\n  return
toCollection(HashSet<Char>(mapCapacity(length)))\n}\n\n/**\n * Returns a [List] containing all characters.\n
*/\npublic fun CharSequence.toList(): List<Char> {\n  return when (length) {\n    0 -> emptyList()\n    1 ->
listOf(this[0])\n    else -> this.toMutableList()\n  }\n}\n\n/**\n * Returns a [MutableList] filled with all
characters of this char sequence.\n */\npublic fun CharSequence.toMutableList(): MutableList<Char> {\n  return
toCollection(ArrayList<Char>(length))\n}\n\n/**\n * Returns a [Set] of all characters.\n */\n * \n * The returned set preserves the element iteration order of the original char
sequence.\n */\npublic fun CharSequence.toSet(): Set<Char> {\n  return when (length) {\n    0 -> emptySet()\n
1 -> setOf(this[0])\n    else -> toCollection(LinkedHashSet<Char>(mapCapacity(length)))\n  }\n}\n\n/**\n *
Returns a single list of all elements yielded from results of [transform] function being invoked on each character of
original char sequence.\n */\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic
inline fun <R> CharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n  return
flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform]
function being invoked on each character of original char sequence, to the given [destination].\n */\npublic inline
fun <R, C : MutableCollection<in R>> CharSequence.flatMapTo(destination: C, transform:
(Char) -> Iterable<R>): C {\n  for (element in this) {\n    val list = transform(element)\n
destination.addAll(list)\n  }\n  return destination\n}\n\n/**\n * Groups characters of the original char sequence by
the key returned by the given [keySelector] function\n */\n * applied to each character and returns a map where each
group key is associated with a list of corresponding characters.\n */\n * \n * The returned map preserves the entry
iteration order of the keys produced from the original char sequence.\n */\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K>
CharSequence.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each character of the original char sequence\n */\n * by the key returned by the
given [keySelector] function applied to the character\n */\n * and returns a map
where each group key is associated with a list of corresponding values.\n */\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original char sequence.\n */\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V>
CharSequence.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups
characters of the original char sequence by the key returned by the given [keySelector] function\n */\n * applied to each
character and puts to the [destination] map each group key associated with a list of corresponding characters.\n */\n
\n * @return The [destination] map.\n */\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharSequence.groupByTo(destination: M,
keySelector: (Char) -> K): M {\n  for (element
in this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) { ArrayList<Char>() }\n
list.add(element)\n  }\n  return destination\n}\n\n/**\n * Groups values returned by the [valueTransform]
function applied to each character of the original char sequence\n */\n * by the key returned by the given [keySelector]
function applied to the character\n */\n * and puts to the [destination] map each group key associated with a list of
corresponding values.\n */\n * \n * @return The [destination] map.\n */\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K,
valueTransform: (Char) -> V): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =

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destination.getOrPut(key) { ArrayList<V>() }\n    list.add(valueTransform(element))\n } \n return
destination}\n}\n/**\n
 * Creates a [Grouping] source from a char sequence to be used later with one of group-and-fold operations\n *
using the specified [keySelector] function to extract a key from each character.\n * \n * @sample
samples.collections.Grouping.groupingByEachCount\n *^\n@SinceKotlin("1.1")\npublic inline fun <K>
CharSequence.groupingBy(crossinline keySelector: (Char) -> K): Grouping<Char, K> {\n    return object :
Grouping<Char, K> {\n        override fun sourceIterator(): Iterator<Char> = this@groupingBy.iterator()\n
        override fun keyOf(element: Char): K = keySelector(element)\n    }\n}\n}\n/**\n * Returns a list containing the
results of applying the given [transform] function\n * to each character in the original char sequence.\n * \n *
@sample samples.text.Strings.map\n *^\npublic inline fun <R> CharSequence.map(transform: (Char) -> R):
List<R> {\n    return mapTo(ArrayList<R>(length), transform)\n}\n}\n}\n/**\n * Returns a list containing the results of
applying the given [transform]
function\n * to each character and its index in the original char sequence.\n * @param [transform] function that
takes the index of a character and the character itself\n * and returns the result of the transform applied to the
character.\n *^\npublic inline fun <R> CharSequence.mapIndexed(transform: (index: Int, Char) -> R): List<R> {\n
return mapIndexedTo(ArrayList<R>(length), transform)\n}\n}\n}\n/**\n * Returns a list containing only the non-null
results of applying the given [transform] function\n * to each character and its index in the original char sequence.\n
* @param [transform] function that takes the index of a character and the character itself\n * and returns the result
of the transform applied to the character.\n *^\npublic inline fun <R : Any>
CharSequence.mapIndexedNotNull(transform: (index: Int, Char) -> R?): List<R> {\n    return
mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n}\n}\n/**\n * Applies the given [transform] function to each
character and its index
in the original char sequence\n * and appends only the non-null results to the given [destination].\n * @param
[transform] function that takes the index of a character and the character itself\n * and returns the result of the
transform applied to the character.\n *^\npublic inline fun <R : Any, C : MutableCollection<in R>>
CharSequence.mapIndexedNotNullTo(destination: C, transform: (index: Int, Char) -> R?): C {\n    forEachIndexed
{ index, element -> transform(index, element)?.let { destination.add(it) } }\n    return destination}\n}\n}\n/**\n *
Applies the given [transform] function to each character and its index in the original char sequence\n * and appends
the results to the given [destination].\n * @param [transform] function that takes the index of a character and the
character itself\n * and returns the result of the transform applied to the character.\n *^\npublic inline fun <R, C :
MutableCollection<in R>> CharSequence.mapIndexedTo(destination: C, transform: (index: Int, Char)
-> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return
destination}\n}\n}\n/**\n * Returns a list containing only the non-null results of applying the given [transform]
function\n * to each character in the original char sequence.\n *^\npublic inline fun <R : Any>
CharSequence.mapNotNull(transform: (Char) -> R?): List<R> {\n    return mapNotNullTo(ArrayList<R>(),
transform)\n}\n}\n}\n/**\n * Applies the given [transform] function to each character in the original char sequence\n *
and appends only the non-null results to the given [destination].\n *^\npublic inline fun <R : Any, C :
MutableCollection<in R>> CharSequence.mapNotNullTo(destination: C, transform: (Char) -> R?): C {\n    forEach
{ element -> transform(element)?.let { destination.add(it) } }\n    return destination}\n}\n}\n/**\n * Applies the given
[transform] function to each character of the original char sequence\n * and appends the results to the given
[destination].\n
*^\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.mapTo(destination: C, transform: (Char) ->
R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return destination}\n}\n}\n/**\n * Returns a
lazy [Iterable] that wraps each character of the original char sequence\n * into an [IndexedValue] containing the
index of that character and the character itself.\n *^\npublic fun CharSequence.withIndex():
Iterable<IndexedValue<Char>> {\n    return IndexingIterable { iterator() }\n}\n}\n}\n/**\n * Returns `true` if all
characters match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n
*^\npublic inline fun CharSequence.all(predicate: (Char) -> Boolean): Boolean {\n    for (element in this) if

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(!predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if char sequence has at least one
character.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun CharSequence.any():
Boolean
{\n    return isEmpty()\n}\n\n/**\n * Returns `true` if at least one character matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun
CharSequence.any(predicate: (Char) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
true\n    return false\n}\n\n/**\n * Returns the length of this char sequence.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.count(): Int {\n    return length\n}\n\n/**\n *
Returns the number of characters matching the given [predicate].\n */\npublic inline fun
CharSequence.count(predicate: (Char) -> Boolean): Int {\n    var count = 0\n    for (element in this) if
(predicate(element)) ++count\n    return count\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right to current accumulator value and each character.\n */\npublic inline fun <R>
CharSequence.fold(initial: R, operation: (acc: R,
Char) -> R): R {\n    var accumulator = initial\n    for (element in this) accumulator = operation(accumulator,
element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from left to right\n * to current accumulator value and each character with its index in the original char
sequence.\n * @param [operation] function that takes the index of a character, current accumulator value\n * and the
character itself, and calculates the next accumulator value.\n */\npublic inline fun <R>
CharSequence.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n    var index = 0\n    var
accumulator = initial\n    for (element in this) accumulator = operation(index++, accumulator, element)\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left
to each character and current accumulator value.\n */\npublic inline fun <R> CharSequence.foldRight(initial:
R, operation: (Char, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >=
0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each character with
its index in the original char sequence and current accumulator value.\n * @param [operation] function that takes the
index of a character, the character itself\n * and current accumulator value, and calculates the next accumulator
value.\n */\npublic inline fun <R> CharSequence.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) ->
R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator =
operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Performs the
given [action] on each character.\n */\npublic inline fun CharSequence.forEach(action:
(Char) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each
character, providing sequential index with the character.\n * @param [action] function that takes the index of a
character and the character itself\n * and performs the desired action on the character.\n */\npublic inline fun
CharSequence.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {\n    var index = 0\n    for (item in this)
action(index++, item)\n}\n\n/**\n * Returns the largest character or `null` if there are no characters.\n */\npublic fun
CharSequence.max(): Char? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n
        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first character yielding the
largest value of the given function or `null` if there are no characters.\n * \n * @sample
samples.collections.Collections.Aggregates.maxBy\n */\npublic inline
fun <R : Comparable<R>> CharSequence.maxBy(selector: (Char) -> R): Char? {\n    if (isEmpty()) return null\n
    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxVal =
selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxVal < v)
{\n            maxElem = e\n            maxVal = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first
character having the largest value according to the provided [comparator] or `null` if there are no characters.\n */\npublic fun CharSequence.maxWith(comparator: Comparator<in Char>): Char? {\n    if (isEmpty()) return null\n
    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max =
e\n    }\n    return max\n}\n\n/**\n * Returns the smallest character or `null` if there are no characters.\n */\npublic

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fun CharSequence.min(): Char? {\n
    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e)\n            min = e\n    }\n    return min\n}\n\n/**\n * Returns the first character yielding the smallest value of the given\n * function or `null` if there are no characters.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> CharSequence.minBy(selector: (Char) -> R): Char? {\n    if (isEmpty())\n        return null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first character having the smallest value according to the provided [comparator] or `null` if there are no\n * characters.\n */\npublic fun CharSequence.minWith(comparator:\n    Comparator<in Char>): Char? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns `true` if\n * the char sequence has no characters.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic\nfun CharSequence.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if no characters match the\n * given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic\ninline fun CharSequence.none(predicate: (Char) -> Boolean): Boolean {\n    for (element in this) if\n        (predicate(element)) return false\n    return true\n}\n\n/**\n * Performs the given [action] on each character and\n * returns the char sequence itself afterwards.\n * \n * @SinceKotlin("1.1")\n */\npublic inline fun <S : CharSequence>\n    S.onEach(action: (Char) -> Unit): S {\n    return apply { for (element\n        in this) action(element) }\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation]\n * from left to right to current accumulator value and each character.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun CharSequence.reduce(operation: (acc:\n    Char, Char) -> Char): Char {\n    if (isEmpty())\n        throw UnsupportedOperationException("Empty char\n        sequence can't be reduced.")\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator =\n            operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the\n * first character and applying [operation] from left to right\n * to current accumulator value and each character with its\n * index in the original char sequence.\n * \n * @param [operation] function that takes the index of a character, current\n * accumulator value\n * and the character itself and calculates the next accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun CharSequence.reduceIndexed(operation:\n    (index: Int, acc: Char, Char) -> Char): Char {\n    if (isEmpty())\n        throw\n        UnsupportedOperationException("Empty char sequence can't be reduced.")\n    var accumulator = this[0]\n    for\n        (index in 1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    return\n        accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to\n * right to current accumulator value and each character. Returns null if the char sequence is empty.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceOrNull\n */\n\n/**\n * @SinceKotlin("1.3")\n * @ExperimentalStdlibApi\n */\npublic inline fun CharSequence.reduceOrNull(operation:\n    (acc: Char, Char) -> Char): Char? {\n    if (isEmpty())\n        return null\n    var accumulator = this[0]\n    for (index\n        in 1..lastIndex) {\n        accumulator = operation(accumulator,\n            this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last character and applying\n * [operation] from right to left to each character and current accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun\n    CharSequence.reduceRight(operation: (Char, acc: Char) -> Char): Char {\n    var index = lastIndex\n    if (index < 0)\n        throw UnsupportedOperationException("Empty char sequence can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return\n        accumulator\n}\n\n/**\n * Accumulates value starting with last character and applying [operation] from right to\n * left\n * to each character with its index in the original char sequence and current accumulator value.\n * \n * @param\n * [operation] function that takes the index of a character, the character itself\n * and current accumulator value, and\n * calculates the next

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    accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n * \n\npublic inline
fun CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n    var index =
lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty char sequence can't be reduced.")\n
var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index),
accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last
character and applying [operation] from right to left to each character and current accumulator value. Returns null if
the char sequence is empty.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n * \n\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\npublic inline fun
CharSequence.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {\n    var index = lastIndex\n    if
(index < 0) return null\n    var
accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n
}\n    return accumulator\n}\n\n/**\n * Returns a list containing successive accumulation values generated by
applying [operation] from left to right\n * to each character and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and a character, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n * \n\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\npublic
inline fun <R> CharSequence.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {\n    if (isEmpty()) return
listOf(initial)\n    val result = ArrayList<R>(length + 1).apply { add(initial) }\n    var accumulator = initial\n
for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n
return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each character, its index in the original char sequence and current accumulator
value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be
mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that
takes the index of a character, current accumulator value\n * and the character itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n * \n\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\npublic inline fun <R> CharSequence.scanIndexed(initial: R,
operation: (index: Int, acc: R, Char) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val
result = ArrayList<R>(length + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n
accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return
result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from
left to right\n * to each character and current accumulator value that starts with the first character of this char
sequence.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and a character, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scanReduce\n
*\n * \n\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\npublic inline fun CharSequence.scanReduce(operation: (acc:
Char, Char) -> Char): List<Char> {\n    if (isEmpty())
return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Char>(length).apply { add(accumulator)
}\n    for (index in 1 until length) {\n        accumulator = operation(accumulator, this[index])\n
result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each character, its index in the original char
sequence and current accumulator value that starts with the first character of this char sequence.\n * \n * Note that
`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes the index of a character, current accumulator value\n *
and the character itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scanReduce\n
*\n * \n\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\npublic

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inline fun CharSequence.scanReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Char>(length).apply {
        add(accumulator)
    }
    for (index in 1 until length) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.
 */
public inline fun CharSequence.sumBy(selector: (Char) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.
 */
public inline fun CharSequence.sumByDouble(selector: (Char) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Splits this char sequence into a list of strings each not exceeding the given [size].
 * The last string in the resulting list may have less characters than the given [size].
 * @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence.
 * @sample
 */
samples.collections.Collections.Transformations.chunked

/**
 * @SinceKotlin("1.2")
 */
public fun CharSequence.chunked(size: Int): List<String> {
    return windowed(size, size, partialWindows = true)
}

/**
 * Splits this char sequence into several char sequences each not exceeding the given [size] and applies the given [transform] function to an each.
 * @return list of results of the [transform] applied to an each char sequence.
 * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.
 * You should not store it or allow it to escape in some way, unless you made a snapshot of it.
 * The last char sequence may have less characters than the given [size].
 * @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence.
 * @sample
 */
samples.text.Strings.chunkedTransform

/**
 * @SinceKotlin("1.2")
 */
public fun <R> CharSequence.chunked(size: Int, transform: (CharSequence) -> R): List<R> {
    return windowed(size, size, partialWindows = true, transform = transform)
}

/**
 * Splits this char sequence into a sequence of strings each not exceeding the given [size].
 * The last string in the resulting sequence may have less characters than the given [size].
 * @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence.
 * @sample
 */
samples.collections.Collections.Transformations.chunked

/**
 * @SinceKotlin("1.2")
 */
public fun CharSequence.chunkedSequence(size: Int): Sequence<String> {
    return chunkedSequence(size) { it.toString() }
}

/**
 * Splits this char sequence into several char sequences each not exceeding the given [size] and applies the given [transform] function to an each.
 * @return sequence of results of the [transform] applied to an each char sequence.
 * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.
 * You should not store it or allow it to escape in some way, unless you made a snapshot of it.
 * The last char sequence may have less characters than the given [size].
 * @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence.
 * @sample
 */
samples.text.Strings.chunkedTransformToSequence

/**
 * @SinceKotlin("1.2")
 */
public fun <R> CharSequence.chunkedSequence(size: Int, transform: (CharSequence) -> R): Sequence<R> {
    return windowedSequence(size, size, partialWindows = true, transform = transform)
}

/**
 * Splits the original char sequence into pair of char sequences, where
 * *first* char sequence contains characters for which [predicate] yielded `true`, while
 * *second* char sequence contains characters for which [predicate] yielded `false`.
 */
public inline fun CharSequence.partition(predicate: (Char) -> Boolean): Pair<CharSequence, CharSequence> {
    val first = StringBuilder()
    val second = StringBuilder()
    for (element in this) {
        if (predicate(element)) {
            first.append(element)
        } else {
            second.append(element)
        }
    }
    return Pair(first, second)
}

/**
 * Splits the original string into pair of strings, where
 * *first* string contains characters for which [predicate] yielded `true`, while
 * *second* string contains characters for which
 */

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[predicate] yielded `false`.
\n */
\n public inline fun String.partition(predicate: (Char) -> Boolean): Pair<String,
String> {
\n     val first = StringBuilder()
\n     val second = StringBuilder()
\n     for (element in this) {
\n         if (predicate(element)) {
\n             first.append(element)
\n         } else {
\n             second.append(element)
\n         }
\n     }
\n     return Pair(first.toString(), second.toString())
\n }
\n */
\n * Returns a list of snapshots of the window of the
given [size]
\n * sliding along this char sequence with the given [step], where each
\n * snapshot is a string.
\n *
\n * Several last strings may have less characters than the given [size].
\n *
\n * Both [size] and [step] must be positive
and can be greater than the number of elements in this char sequence.
\n *
\n * @param size the number of elements to
take in each window
\n *
\n * @param step the number of elements to move the window forward by on an each step, by
default 1
\n *
\n * @param partialWindows controls whether or not to
keep partial windows in the end if any,
\n * by default `false` which means partial windows won't be preserved
\n *
\n * @sample samples.collections.Sequences.Transformations.takeWindows
\n */
\n @SinceKotlin("1.2")
\n public fun CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<String> {
\n     return
windowed(size, step, partialWindows) { it.toString() }
\n }
\n */
\n * Returns a list of results of applying the given
[transform] function to
\n * an each char sequence representing a view over the window of the given [size]
\n *
sliding along this char sequence with the given [step].
\n *
\n * Note that the char sequence passed to the [transform]
function is ephemeral and is valid only inside that function.
\n *
\n * You should not store it or allow it to escape in some
way, unless you made a snapshot of it.
\n *
\n * Several last char sequences may have less characters than the given
[size].
\n *
\n * Both [size] and [step] must be positive and can be greater than the number
of elements in this char sequence.
\n *
\n * @param size the number of elements to take in each window
\n *
\n * @param step the number of elements to move the window forward by on an each step, by default 1
\n *
\n * @param partialWindows controls whether or not to keep partial windows in the end if any,
\n * by default `false` which
means partial windows won't be preserved
\n *
\n * @sample
samples.collections.Sequences.Transformations.averageWindows
\n */
\n @SinceKotlin("1.2")
\n public fun <R>
CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R):
List<R> {
\n     checkWindowSizeStep(size, step)
\n     val thisSize = this.length
\n     val resultCapacity = thisSize / step
\n     + if (thisSize % step == 0) 0 else 1
\n     val result = ArrayList<R>(resultCapacity)
\n     var index = 0
\n     while (index
in 0 until thisSize) {
\n         val end = index + size
\n         val coercedEnd = if (end < 0 || end > thisSize) {
if
(partialWindows) thisSize else break
\n         } else
end
\n         result.add(transform(subSequence(index, coercedEnd)))
\n         index += step
\n     }
\n     return
result
\n }
\n */
\n * Returns a sequence of snapshots of the window of the given [size]
\n * sliding along this char
sequence with the given [step], where each
\n * snapshot is a string.
\n *
\n * Several last strings may have less
characters than the given [size].
\n *
\n * Both [size] and [step] must be positive and can be greater than the number
of elements in this char sequence.
\n *
\n * @param size the number of elements to take in each window
\n *
\n * @param step the number of elements to move the window forward by on an each step, by default 1
\n *
\n * @param partialWindows
controls whether or not to keep partial windows in the end if any,
\n * by default `false` which means partial
windows won't be preserved
\n *
\n * @sample samples.collections.Sequences.Transformations.takeWindows
\n */
\n @SinceKotlin("1.2")
\n public fun CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows:
Boolean = false): Sequence<String> {
\n     return windowedSequence(size, step, partialWindows) { it.toString()
}
\n }
\n */
\n * Returns a sequence of results of applying the given [transform] function to
\n * an each char
sequence representing a view over the window of the given [size]
\n * sliding along this char sequence with the given
[step].
\n *
\n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside
that function.
\n *
\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.
\n *
\n * Several last char sequences may have less characters than the given [size].
\n *
\n * Both [size] and [step] must be
positive and can be greater than the number of elements in this char sequence.
\n *
\n * @param size the number of
elements to take in each window
\n *
\n * @param step the number of elements to move the window forward by on an
each step, by default 1
\n *
\n * @param partialWindows controls whether or not to keep partial windows
in the end if any,
\n * by default `false` which means partial windows won't be preserved
\n *
\n * @sample
samples.collections.Sequences.Transformations.averageWindows
\n */
\n @SinceKotlin("1.2")
\n public fun <R>

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CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform:
(CharSequence) -> R): Sequence<R> {\n checkWindowSizeStep(size, step)\n val windows = (if
(partialWindows) indices else 0 until length - size + 1) step step\n return windows.asSequence().map { index ->\n
val end = index + size\n val coercedEnd = if (end < 0 || end > length) length else end\n
transform(subSequence(index, coercedEnd))\n }\n}\n\n/**\n * Returns a list of pairs built from the characters of
`this` and the [other] char sequences with the same index\n * The returned list has length of the shortest char
sequence.\n * \n * @sample samples.text.Strings.zip\n */\npublic infix fun CharSequence.zip(other: CharSequence):
List<Pair<Char, Char>>
{\n return zip(other) { c1, c2 -> c1 to c2 }\n}\n\n/**\n * Returns a list of values built from the characters of `this`
and the [other] char sequences with the same index\n * using the provided [transform] function applied to each pair
of characters.\n * The returned list has length of the shortest char sequence.\n * \n * @sample
samples.text.Strings.zipWithTransform\n */\npublic inline fun <V> CharSequence.zip(other: CharSequence,
transform: (a: Char, b: Char) -> V): List<V> {\n val length = minOf(this.length, other.length)\n val list =
ArrayList<V>(length)\n for (i in 0 until length) {\n list.add(transform(this[i], other[i]))\n }\n return
list\n}\n\n/**\n * Returns a list of pairs of each two adjacent characters in this char sequence.\n * \n * The returned
list is empty if this char sequence contains less than two characters.\n * \n * @sample
samples.collections.Collections.Transformations.zipWithNext\n */\n@SinceKotlin("1.2")\npublic fun
CharSequence.zipWithNext():
List<Pair<Char, Char>> {\n return zipWithNext { a, b -> a to b }\n}\n\n/**\n * Returns a list containing the
results of applying the given [transform] function\n * to an each pair of two adjacent characters in this char
sequence.\n * \n * The returned list is empty if this char sequence contains less than two characters.\n * \n *
@sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n
*/\n@SinceKotlin("1.2")\npublic inline fun <R> CharSequence.zipWithNext(transform: (a: Char, b: Char) -> R):
List<R> {\n val size = length - 1\n if (size < 1) return emptyList()\n val result = ArrayList<R>(size)\n for
(index in 0 until size) {\n result.add(transform(this[index], this[index + 1]))\n }\n return result\n}\n\n/**\n *
Creates an [Iterable] instance that wraps the original char sequence returning its characters when being iterated.\n
*/\npublic fun CharSequence.asIterable(): Iterable<Char> {\n if (this is String && isEmpty())
return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the
original char sequence returning its characters when being iterated.\n */\npublic fun CharSequence.asSequence():
Sequence<Char> {\n if (this is String && isEmpty()) return emptySequence()\n return Sequence { this.iterator()
}\n}\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage
kotlin.text\nimport kotlin.contracts.contract\n\n/**\n * Returns a sub sequence of this char sequence having
leading and trailing characters matching the [predicate] removed.\n */\npublic inline fun
CharSequence.trim(predicate: (Char) -> Boolean): CharSequence {\n var startIndex = 0\n var endIndex = length
- 1\n var startFound
= false\n\n while (startIndex <= endIndex) {\n val index = if (!startFound) startIndex else endIndex\n val
match = predicate(this[index])\n if (!startFound) {\n if (!match)\n startFound = true\n
else\n startIndex += 1\n } else {\n if (!match)\n break\n else\n
endIndex -= 1\n }\n }\n return subSequence(startIndex, endIndex + 1)\n}\n\n/**\n * Returns a string
having leading and trailing characters matching the [predicate] removed.\n */\npublic inline fun
String.trim(predicate: (Char) -> Boolean): String =\n (this as CharSequence).trim(predicate).toString()\n\n/**\n *
Returns a sub sequence of this char sequence having leading characters matching the [predicate] removed.\n
*/\npublic inline fun CharSequence.trimStart(predicate: (Char) -> Boolean): CharSequence {\n for (index in
this.indices)\n if (!predicate(this[index]))\n
return subSequence(index, length)\n return ""\n}\n\n/**\n * Returns a string having leading characters
matching the [predicate] removed.\n */\npublic inline fun String.trimStart(predicate: (Char) -> Boolean): String =\n

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(this as CharSequence).trimStart(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence
having trailing characters matching the [predicate] removed.\n */\npublic inline fun
CharSequence.trimEnd(predicate: (Char) -> Boolean): CharSequence {\n    for (index in this.indices.reversed())\n        if (!predicate(this[index]))\n            return subSequence(0, index + 1)\n    return ""\n}\n\n/**\n * Returns a string
having trailing characters matching the [predicate] removed.\n */\npublic inline fun String.trimEnd(predicate: (Char)
-> Boolean): String =\n    (this as CharSequence).trimEnd(predicate).toString()\n\n/**\n * Returns a sub sequence of
this char sequence having leading and trailing characters from the [chars] array removed.\n
*/\npublic fun CharSequence.trim(vararg chars: Char): CharSequence = trim { it in chars }\n\n/**\n * Returns a
string having leading and trailing characters from the [chars] array removed.\n */\npublic fun String.trim(vararg
chars: Char): String = trim { it in chars }\n\n/**\n * Returns a sub sequence of this char sequence having leading
characters from the [chars] array removed.\n */\npublic fun CharSequence.trimStart(vararg chars: Char):
CharSequence = trimStart { it in chars }\n\n/**\n * Returns a string having leading characters from the [chars] array
removed.\n */\npublic fun String.trimStart(vararg chars: Char): String = trimStart { it in chars }\n\n/**\n * Returns a
sub sequence of this char sequence having trailing characters from the [chars] array removed.\n */\npublic fun
CharSequence.trimEnd(vararg chars: Char): CharSequence = trimEnd { it in chars }\n\n/**\n * Returns a string
having trailing characters from the [chars] array removed.\n */\npublic fun String.trimEnd(vararg
chars: Char): String = trimEnd { it in chars }\n\n/**\n * Returns a sub sequence of this char sequence having
leading and trailing whitespace removed.\n */\npublic fun CharSequence.trim(): CharSequence =
trim(Char::isWhitespace)\n\n/**\n * Returns a string having leading and trailing whitespace removed.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun String.trim(): String = (this as
CharSequence).trim().toString()\n\n/**\n * Returns a sub sequence of this char sequence having leading whitespace
removed.\n */\npublic fun CharSequence.trimStart(): CharSequence = trimStart(Char::isWhitespace)\n\n/**\n *
Returns a string having leading whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
String.trimStart(): String = (this as CharSequence).trimStart().toString()\n\n/**\n * Returns a sub sequence of this
char sequence having trailing whitespace removed.\n */\npublic fun CharSequence.trimEnd(): CharSequence =
trimEnd(Char::isWhitespace)\n\n/**\n * Returns a
string having trailing whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.trimEnd():
String = (this as CharSequence).trimEnd().toString()\n\n/**\n * Returns a char sequence with content of this char
sequence padded at the beginning\n * to the specified [length] with the specified character or space.\n * @param
length the desired string length.\n * @param padChar the character to pad string with, if it has length less than the
[length] specified. Space is used by default.\n * @return Returns a char sequence of length at least [length]
consisting of `this` char sequence prepended with [padChar] as many times\n * as are necessary to reach that
length.\n * @sample samples.text.Strings.padStart\n */\npublic fun CharSequence.padStart(length: Int, padChar:
Char = ' '): CharSequence {\n    if (length < 0)\n        throw IllegalArgumentException("Desired length $length is
less than zero.")\n    if (length <= this.length)\n        return this.subSequence(0, this.length)\n    val sb =
StringBuilder(length)\n    for (i in 1..(length - this.length))\n        sb.append(padChar)\n    sb.append(this)\n    return sb\n}\n\n/**\n * Pads the string to the specified [length] at the beginning with the
specified character or space.\n * @param length the desired string length.\n * @param padChar the character to
pad string with, if it has length less than the [length] specified. Space is used by default.\n * @return Returns a
string of length at least [length] consisting of `this` string prepended with [padChar] as many times\n * as are
necessary to reach that length.\n * @sample samples.text.Strings.padStart\n */\npublic fun String.padStart(length:
Int, padChar: Char = ' '): String =\n    (this as CharSequence).padStart(length, padChar).toString()\n\n/**\n * Returns
a char sequence with content of this char sequence padded at the end\n * to the specified [length] with the specified
character or space.\n * @param length the desired string length.\n
*/\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by
default.\n * @return Returns a char sequence of length at least [length] consisting of `this` char sequence appended
with [padChar] as many times\n * as are necessary to reach that length.\n * @sample samples.text.Strings.padEnd\n
*/\npublic fun CharSequence.padEnd(length: Int, padChar: Char = ' '): CharSequence {\n    if (length < 0)\n

```

```

throw IllegalArgumentException("Desired length $length is less than zero.") if (length <= this.length)
return this.subSequence(0, this.length)
val sb = StringBuilder(length)
sb.append(this)
for (i in 1..(length - this.length))
    sb.append(padChar)
return sb
}

Pads the string to the specified [length] at the end with the specified character or space.
@param length the desired string length.
@param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.
@return Returns a string of length at least [length] consisting of `this` string appended with [padChar] as many times as are necessary to reach that length.
@sample samples.text.Strings.padEnd
public fun String.padEnd(length: Int, padChar: Char = ' '): String = (this as CharSequence).padEnd(length, padChar).toString()

Returns `true` if this nullable char sequence is either `null` or empty.
@sample samples.text.Strings.stringIsNullOrEmpty
public inline fun CharSequence?.isNullOrEmpty(): Boolean {
    contract {
        returns(false) implies (this@isNullOrEmpty != null)
    }
    return this == null || this.length == 0
}

Returns `true` if this char sequence is empty (contains no characters).
@sample samples.text.Strings.stringIsEmpty
public inline fun CharSequence.isEmpty(): Boolean = length == 0

Returns `true` if this char sequence is not empty.
@sample samples.text.Strings.stringIsNotEmpty
public inline fun CharSequence.isNotEmpty(): Boolean = length > 0

implemented differently in JVM and JS
public fun String.isBlank(): Boolean = length() == 0 || all { it.isWhitespace() }

Returns `true` if this char sequence is not empty and contains some characters except of whitespace characters.
@sample samples.text.Strings.stringIsNotBlank
public inline fun CharSequence.isNotBlank(): Boolean = !isBlank()

Returns `true` if this nullable char sequence is either `null` or empty or consists solely of whitespace characters.
@sample samples.text.Strings.stringOrNullOrBlank
public inline fun CharSequence?.isNullOrBlank(): Boolean {
    contract {
        returns(false) implies (this@isNullOrBlank != null)
    }
    return this == null || this.isBlank()
}

Iterator for characters of the given char sequence.
public operator fun CharSequence.iterator(): CharIterator = object : CharIterator() {
    private var index = 0
    public override fun nextChar(): Char = get(index++)
    public override fun hasNext(): Boolean = index < length
}

Returns the string if it is not `null`, or the empty string otherwise.
@kotlin.internal.InlineOnly
public inline fun String?.orEmpty(): String = this ?: ""

Returns this char sequence if it's not empty or the result of calling [defaultValue] function if the char sequence is empty.
@sample samples.text.Strings.stringIfEmpty
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : CharSequence, C : R = if (isEmpty()) defaultValue() else this

Returns this char sequence if it is not empty and doesn't consist solely of whitespace characters, or the result of calling [defaultValue] function otherwise.
@sample samples.text.Strings.stringIfBlank
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <C, R> C.ifBlank(defaultValue: () -> R): R where C : CharSequence, C : R = if (isBlank()) defaultValue() else this

Returns the range of valid character indices for this char sequence.
public val CharSequence.indices: IntRange
    get() = 0..length - 1

Returns the index of the last character in the char sequence or -1 if it is empty.
public val CharSequence.lastIndex: Int
    get() = this.length - 1

Returns `true` if this CharSequence has Unicode surrogate pair at the specified [index].
public fun CharSequence.hasSurrogatePairAt(index: Int): Boolean {
    return index in 0..length - 2 && this[index].isHighSurrogate() && this[index + 1].isLowSurrogate()
}

Returns a substring specified by the given [range] of indices.
public fun String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)

Returns a subsequence of this char sequence specified by the given [range] of indices.
public fun CharSequence.subSequence(range: IntRange): CharSequence = subSequence(range.start,

```

`range.endInclusive + 1)` Returns a subsequence of this char sequence. This extension is chosen only for invocation with old-named parameters. Replace parameter names with the same as those of `[CharSequence.subSequence]`.

```

*^@kotlin.internal.InlineOnly@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false
warning@Deprecated("Use parameters named startIndex and endIndex.", ReplaceWith("subSequence(startIndex = start, endIndex = end)"))
public inline fun CharSequence.subSequence(start: Int, end: Int): CharSequence =
  subSequence(start, end)
  Returns a substring of chars from a range of this char sequence starting at the
  [startIndex]
  and ending right before the [endIndex].
  @param startIndex the start index (inclusive).
  @param endIndex the end index (exclusive). If not specified, the length of the char sequence is used.
  ^@kotlin.internal.InlineOnly
  public inline fun CharSequence.substring(startIndex: Int, endIndex: Int = length):
  String = subSequence(startIndex, endIndex).toString()
  Returns a substring of chars at indices from the
  specified [range] of this char sequence.
  ^public fun CharSequence.substring(range: IntRange): String =
  subSequence(range.start, range.endInclusive + 1).toString()
  Returns a substring before the first
  occurrence of [delimiter].
  If the string does not contain the delimiter, returns [missingDelimiterValue] which
  defaults to the original string.
  ^public fun String.substringBefore(delimiter: Char, missingDelimiterValue:
  String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else
    substring(0,
    index)
  Returns a substring before the first occurrence of [delimiter].
  If the string does not contain
  the delimiter, returns [missingDelimiterValue] which defaults to the original string.
  ^public fun
  String.substringBefore(delimiter: String, missingDelimiterValue: String = this): String {
    val index =
    indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(0, index)
  Returns
  a substring after the first occurrence of [delimiter].
  If the string does not contain the delimiter, returns
  [missingDelimiterValue] which defaults to the original string.
  ^public fun String.substringAfter(delimiter:
  Char, missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1)
    missingDelimiterValue else substring(index + 1, length)
  Returns a substring after the first occurrence
  of [delimiter].
  If the string does not contain the delimiter, returns [missingDelimiterValue]
  which defaults to the original string.
  ^public fun String.substringAfter(delimiter: String,
  missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1)
    missingDelimiterValue else substring(index + delimiter.length, length)
  Returns a substring before the
  last occurrence of [delimiter].
  If the string does not contain the delimiter, returns [missingDelimiterValue] which
  defaults to the original string.
  ^public fun String.substringBeforeLast(delimiter: Char, missingDelimiterValue:
  String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else
    substring(0, index)
  Returns a substring before the last occurrence of [delimiter].
  If the string does
  not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.
  ^public fun
  String.substringBeforeLast(delimiter: String, missingDelimiterValue:
  String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else
    substring(0, index)
  Returns a substring after the last occurrence of [delimiter].
  If the string does
  not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.
  ^public fun
  String.substringAfterLast(delimiter: Char, missingDelimiterValue: String = this): String {
    val index =
    lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(index + 1,
    length)
  Returns a substring after the last occurrence of [delimiter].
  If the string does not contain
  the delimiter, returns [missingDelimiterValue] which defaults to the original string.
  ^public fun
  String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this): String {
    val index =
    lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(index + delimiter.length,
    length)
  Returns a char sequence with content of this char sequence where its part at the given range
  * is replaced with the [replacement] char sequence.
  @param startIndex the index of the first character to be
  replaced.
  @param endIndex the index of the first character after the replacement to keep in the string.
  
```

```

*\/n@UseExperimental(ExperimentalStdlibApi::class)\npublic fun CharSequence.replaceRange(startIndex: Int,
endIndex: Int, replacement: CharSequence): CharSequence {\n if (endIndex < startIndex)\n throw
IndexOutOfBoundsException("End index ($endIndex) is less than start index ($startIndex).")\n val sb =
StringBuilder()\n sb.appendRange(this, 0, startIndex)\n sb.append(replacement)\n sb.appendRange(this,
endIndex, length)\n return sb\n}\n\n*/n*/n * Replaces the part of the string at the given range with the
[replacement] char sequence.\n * @param startIndex the index of the first character to be replaced.\n * @param
endIndex the index of the first character after the replacement to keep in the string.\n
*\/n@kotlin.internal.InlineOnly\npublic inline fun String.replaceRange(startIndex: Int, endIndex: Int, replacement:
CharSequence): String =\n (this as CharSequence).replaceRange(startIndex, endIndex,
replacement).toString()\n\n*/n*/n * Returns a char sequence with content of this char sequence where its part at the
given [range]\n * is replaced with the [replacement] char sequence.\n * \n * The end index of the [range] is included
in the part to be replaced.\n *\/n\npublic fun CharSequence.replaceRange(range: IntRange, replacement:
CharSequence): CharSequence =\n replaceRange(range.start, range.endInclusive + 1, replacement)\n\n*/n*/n *
Replace the part of string at the given [range] with the [replacement] string.\n * \n * The end index of the [range] is
included in the part to be replaced.\n *\/n\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceRange(range:
IntRange, replacement: CharSequence):
String =\n (this as CharSequence).replaceRange(range, replacement).toString()\n\n*/n*/n * Returns a char
sequence with content of this char sequence where its part at the given range is removed.\n * \n * @param startIndex
the index of the first character to be removed.\n * @param endIndex the index of the first character after the
removed part to keep in the string.\n * \n * [endIndex] is not included in the removed part.\n
*\/n\n@UseExperimental(ExperimentalStdlibApi::class)\npublic fun CharSequence.removeRange(startIndex: Int,
endIndex: Int): CharSequence {\n if (endIndex < startIndex)\n throw IndexOutOfBoundsException("End
index ($endIndex) is less than start index ($startIndex).")\n\n if (endIndex == startIndex)\n return
this.subSequence(0, length)\n\n val sb = StringBuilder(length - (endIndex - startIndex))\n sb.appendRange(this,
0, startIndex)\n sb.appendRange(this, endIndex, length)\n return sb\n}\n\n*/n*/n * Removes the part of a string
at a given range.\n * @param startIndex the index of the first character to be removed.\n * @param endIndex the
index of the first character after the removed part to keep in the string.\n * \n * [endIndex] is not included in the
removed part.\n *\/n\n@kotlin.internal.InlineOnly\npublic inline fun String.removeRange(startIndex: Int, endIndex:
Int): String =\n (this as CharSequence).removeRange(startIndex, endIndex).toString()\n\n*/n*/n * Returns a char
sequence with content of this char sequence where its part at the given [range] is removed.\n * \n * The end index of
the [range] is included in the removed part.\n *\/n\npublic fun CharSequence.removeRange(range: IntRange):
CharSequence = removeRange(range.start, range.endInclusive + 1)\n\n*/n*/n * Removes the part of a string at the
given [range].\n * \n * The end index of the [range] is included in the removed part.\n
*\/n\n@kotlin.internal.InlineOnly\npublic inline fun String.removeRange(range: IntRange): String =\n (this as
CharSequence).removeRange(range).toString()\n\n*/n*/n
* If this char sequence starts with the given [prefix], returns a new char sequence\n * with the prefix removed.
Otherwise, returns a new char sequence with the same characters.\n *\/n\npublic fun
CharSequence.removePrefix(prefix: CharSequence): CharSequence {\n if (startsWith(prefix)) {\n return
subSequence(prefix.length, length)\n }\n return subSequence(0, length)\n}\n\n*/n*/n * If this string starts with the
given [prefix], returns a copy of this string\n * with the prefix removed. Otherwise, returns this string.\n *\/n\npublic
fun String.removePrefix(prefix: CharSequence): String {\n if (startsWith(prefix)) {\n return
substring(prefix.length)\n }\n return this\n}\n\n*/n*/n * If this char sequence ends with the given [suffix], returns
a new char sequence\n * with the suffix removed. Otherwise, returns a new char sequence with the same
characters.\n *\/n\npublic fun CharSequence.removeSuffix(suffix: CharSequence): CharSequence
{\n if (endsWith(suffix)) {\n return subSequence(0, length - suffix.length)\n }\n return subSequence(0,
length)\n}\n\n*/n*/n * If this string ends with the given [suffix], returns a copy of this string\n * with the suffix
removed. Otherwise, returns this string.\n *\/n\npublic fun String.removeSuffix(suffix: CharSequence): String {\n if
(endsWith(suffix)) {\n return substring(0, length - suffix.length)\n }\n return this\n}\n\n*/n*/n * When this

```

char sequence starts with the given [prefix] and ends with the given [suffix],\n \* returns a new char sequence having both the given [prefix] and [suffix] removed.\n \* Otherwise returns a new char sequence with the same characters.\n\n \*/\npublic fun CharSequence.removeSurrounding(prefix: CharSequence, suffix: CharSequence): CharSequence {\n if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {\n return subSequence(prefix.length, length - suffix.length)\n } \n

return subSequence(0, length)\n }\n\n \*/\n \* Removes from a string both the given [prefix] and [suffix] if and only if\n \* it starts with the [prefix] and ends with the [suffix].\n \* Otherwise returns this string unchanged.\n\n \*/\npublic fun String.removeSurrounding(prefix: CharSequence, suffix: CharSequence): String {\n if ((length >=

prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {\n return substring(prefix.length, length - suffix.length)\n } \n return this\n }\n\n \*/\n \* When this char sequence starts with and ends with the given [delimiter],\n \* returns a new char sequence having this [delimiter] removed both from the start and end.\n \* Otherwise returns a new char sequence with the same characters.\n\n \*/\npublic fun

CharSequence.removeSurrounding(delimiter: CharSequence): CharSequence = removeSurrounding(delimiter, delimiter)\n }\n\n \*/\n \* Removes the given [delimiter] string from both the start and the end of this string\n \* if and only if it

starts with and ends with the [delimiter].\n \* Otherwise returns this string unchanged.\n\n \*/\npublic fun

String.removeSurrounding(delimiter: CharSequence): String = removeSurrounding(delimiter, delimiter)\n }\n\n \*/\n \* Replace part of string before the first occurrence of given delimiter with the [replacement] string.\n \* If the string

does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n\n \*/\npublic fun String.replaceBefore(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index,

replacement)\n }\n\n \*/\n \* Replace part of string before the first occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n\n \*/\npublic fun String.replaceBefore(delimiter: String, replacement: String,

missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n }\n\n \*/\n \* Replace part of string after the first occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n\n \*/\npublic fun String.replaceAfter(delimiter: Char,

replacement: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\n }\n\n \*/\n \* Replace part of string after the first occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n\n \*/\npublic fun

String.replaceAfter(delimiter: String, replacement: String, missingDelimiterValue:

String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)\n }\n\n \*/\n \* Replace part of string after the last occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n\n \*/\npublic fun String.replaceAfterLast(delimiter:

String, replacement: String, missingDelimiterValue: String = this): String {\n val index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length,

replacement)\n }\n\n \*/\n \* Replace part of string after the last occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n\n \*/\npublic fun String.replaceAfterLast(delimiter: Char, replacement:

String, missingDelimiterValue: String = this): String {\n val index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\n }\n\n \*/\n \* Replace part of string before the last occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n\n \*/\npublic fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n val index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index,

replacement)\n }\n\n \*/\n \* Replace part of string before the last occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n\n \*/\npublic fun

String.replaceBeforeLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n val index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index,

replacement)\n }\n\n \*/\n \* Replace part of string before the last occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n\n \*/\npublic fun

String.replaceBeforeLast(delimiter: CharSequence): String = removeSurrounding(delimiter, delimiter)\n }\n\n \*/\n \* Removes the given [delimiter] string from both the start and the end of this string\n \* if and only if it

starts with and ends with the [delimiter].\n \* Otherwise returns this string unchanged.\n\n \*/\npublic fun

String.removeSurrounding(delimiter: CharSequence): String = removeSurrounding(delimiter, delimiter)\n }\n\n \*/\n \* Replace part of string before the first occurrence of given delimiter with the [replacement] string.\n \* If the string

does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n\n \*/\npublic fun String.replaceBefore(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index,

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replacement)\n\n/**\n * Replace part of string before the last occurrence of given delimiter with the
[replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults
to the original string.\n */\npublic fun String.replaceBeforeLast(delimiter: String,
replacement: String, missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n// public fun
String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean): String // JVM- and JS-specific\n// public fun
String.replace(oldValue: String, newValue: String, ignoreCase: Boolean): String // JVM- and JS-specific\n\n/**\n * Returns a new string obtained by replacing each substring of this char sequence that matches the given regular
expression\n * with the given [replacement].\n * The [replacement] can consist of any combination of literal text
and $-substitutions. To treat the replacement string\n * literally escape it with the
[kotlin.text.Regex.Companion.escapeReplacement] method.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.replace(regex: Regex, replacement: String): String = regex.replace(this, replacement)\n\n/**\n * Returns a new string
obtained by replacing each substring of this char sequence that matches the given regular expression\n * with the
result of the given function [transform] that takes [MatchResult] and returns a string to be used as a\n * replacement
for that match.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex: Regex, noinline
transform: (MatchResult) -> CharSequence): String =\n    regex.replace(this, transform)\n\n/**\n * Replaces the first
occurrence of the given regular expression [regex] in this char sequence with specified [replacement] expression.\n
*\n * @param replacement A replacement expression that can include substitutions. See [Regex.replaceFirst] for
details.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replaceFirst(regex: Regex, replacement:
String): String = regex.replaceFirst(this, replacement)\n\n/**\n * Returns `true` if this char sequence matches the
given regular expression.\n */\n@kotlin.internal.InlineOnly\npublic inline
infix fun CharSequence.matches(regex: Regex): Boolean = regex.matches(this)\n\n/**\n * Implementation of
[regionMatches] for CharSequences.\n * Invoked when it's already known that arguments are not Strings, so that no
additional type checks are performed.\n */\ninternal fun CharSequence.regionMatchesImpl(thisOffset: Int, other:
CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean): Boolean {\n    if ((otherOffset < 0) || (thisOffset <
0) || (thisOffset > this.length - length) || (otherOffset > other.length - length)) {\n        return false\n    }\n    for
(index in 0 until length) {\n        if (!this[thisOffset + index].equals(other[otherOffset + index], ignoreCase))\n    return false\n    }\n    return true\n}\n\n/**\n * Returns `true` if this char sequence starts with the specified
character.\n */\npublic fun CharSequence.startsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n    this.length > 0 && this[0].equals(char, ignoreCase)\n\n/**\n * Returns
`true` if this char sequence ends with the specified character.\n */\npublic fun CharSequence.endsWith(char: Char,
ignoreCase: Boolean = false): Boolean =\n    this.length > 0 && this[lastIndex].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence starts with the specified prefix.\n */\npublic fun CharSequence.startsWith(prefix:
CharSequence, ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase && this is String && prefix is String)\n        return this.startsWith(prefix)\n    else\n        return regionMatchesImpl(0, prefix, 0, prefix.length,
ignoreCase)\n}\n\n/**\n * Returns `true` if a substring of this char sequence starting at the specified offset
[startIndex] starts with the specified prefix.\n */\npublic fun CharSequence.startsWith(prefix: CharSequence,
startIndex: Int, ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase && this is String && prefix is String)\n        return this.startsWith(prefix, startIndex)\n    else\n        return regionMatchesImpl(startIndex,
prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if this char sequence ends with the specified
suffix.\n */\npublic fun CharSequence.endsWith(suffix: CharSequence, ignoreCase: Boolean = false): Boolean {\n    if
(!ignoreCase && this is String && suffix is String)\n        return this.endsWith(suffix)\n    else\n        return
regionMatchesImpl(length - suffix.length, suffix, 0, suffix.length, ignoreCase)\n}\n\n// common prefix and
suffix\n\n/**\n * Returns the longest string `prefix` such that this char sequence and [other] char sequence both start
with this prefix,\n * taking care not to split surrogate pairs.\n * If this and [other] have no common prefix, returns
the empty string.\n * @param ignoreCase `true` to ignore character case when matching a character. By default
`false`.\n * @sample samples.text.Strings.commonPrefixWith\n */\npublic fun

```

```

CharSequence.commonPrefixWith(other: CharSequence, ignoreCase: Boolean = false): String {
    val shortestLength = minOf(this.length, other.length)
    var i = 0
    while (i < shortestLength && this[i].equals(other[i], ignoreCase = ignoreCase)) {
        i++
    }
    if (this.hasSurrogatePairAt(i - 1) || other.hasSurrogatePairAt(i - 1)) {
        i--
    }
    return subSequence(0, i).toString()
}

/** Returns the longest string `suffix` such that this char sequence and [other] char sequence both end with this suffix, taking care not to split surrogate pairs.
 * If this and [other] have no common suffix, returns the empty string.
 * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.
 * @sample samples.text.Strings.commonSuffixWith
 */
public fun CharSequence.commonSuffixWith(other: CharSequence, ignoreCase: Boolean = false): String {
    val thisLength = this.length
    val otherLength = other.length
    val shortestLength = minOf(thisLength, otherLength)
    var i = 0
    while (i < shortestLength && this[thisLength - i - 1].equals(other[otherLength - i - 1], ignoreCase = ignoreCase)) {
        i++
    }
    if (this.hasSurrogatePairAt(thisLength - i - 1) || other.hasSurrogatePairAt(otherLength - i - 1)) {
        i--
    }
    return subSequence(thisLength - i, thisLength).toString()
}

/** Finds the index of the first occurrence of any of the specified [chars] in this char sequence, starting from the specified [startIndex] and optionally ignoring the case.
 * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.
 * @return An index of the first occurrence of matched character from [chars] or -1 if none of [chars] are found.
 */
public fun CharSequence.indexOfAny(chars: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false): Int {
    if (!ignoreCase && chars.size == 1 && this is String) {
        val char = chars.single()
        return nativeIndexOf(char, startIndex)
    }
    for (index in startIndex.coerceAtLeast(0)..lastIndex) {
        val charAtIndex = get(index)
        if (chars.any { it.equals(charAtIndex, ignoreCase) }) {
            return index
        }
    }
    return -1
}

/** Finds the index of the last occurrence of any of the specified [chars] in this char sequence, starting from the specified [startIndex] and optionally ignoring the case.
 * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.
 * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.
 * @return An index of the last occurrence of matched character from [chars] or -1 if none of [chars] are found.
 */
public fun CharSequence.lastIndexOfAny(chars: CharArray, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {
    if (!ignoreCase && chars.size == 1 && this is String) {
        val char = chars.single()
        return nativeLastIndexOf(char, startIndex)
    }
    for (index in startIndex.coerceAtMost(lastIndex) downTo 0) {
        val charAtIndex = get(index)
        if (chars.any { it.equals(charAtIndex, ignoreCase) }) {
            return index
        }
    }
    return -1
}

private fun CharSequence.indexOf(other: CharSequence, startIndex: Int, endIndex: Int, ignoreCase: Boolean, last: Boolean = false): Int {
    val indices = if (!last) {
        startIndex.coerceAtLeast(0)..endIndex.coerceAtMost(length)
    } else {
        startIndex.coerceAtMost(lastIndex) downTo endIndex.coerceAtLeast(0)
    }
    if (this is String && other is String) { // smart cast
        for (index in indices) {
            if (other.regionMatches(0, this, index, other.length, ignoreCase)) {
                return index
            }
        }
    } else {
        for (index in indices) {
            if (other.regionMatchesImpl(0, this, index, other.length, ignoreCase)) {
                return index
            }
        }
    }
    return -1
}

private fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int, ignoreCase: Boolean, last: Boolean): Pair<Int, String>? {
    if (!ignoreCase && strings.size == 1) {
        val string = strings.single()
        val index = if (!last) indexOf(string, startIndex) else lastIndexOf(string, startIndex)
        return if (index < 0) null else index to string
    }
    val indices = if (!last) {
        startIndex.coerceAtLeast(0)..length
    } else {
        startIndex.coerceAtMost(lastIndex) downTo 0
    }
    if (this is String) {
        for (index in indices) {
            val matchingString = strings.firstOrNull { it.regionMatches(0, this, index, it.length, ignoreCase) }
            if (matchingString != null) {
                return index to matchingString
            }
        }
    } else {
        for (index in indices) {
            val matchingString = strings.firstOrNull { it.regionMatchesImpl(0, this, index, it.length, ignoreCase) }
            if (matchingString != null) {
                return index to matchingString
            }
        }
    }
    return null
}

/** Finds the first occurrence of any of the specified [strings] in this char sequence, starting from the specified [startIndex] and optionally

```

ignoring the case.  
`ignoreCase`true`` to ignore character case when matching a string. By default `false``.  
`@return` A pair of an index of the first occurrence of matched string from [strings] and the string matched  
or `null`` if none of [strings] are found.  
To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from the beginning to the end of this string, and finds at each position the first element in [strings] that matches this string at that position.  
`public fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Pair<Int, String>?`  
`findAnyOf(strings, startIndex, ignoreCase, last = false)`  
Finds the last occurrence of any of the specified [strings] in this char sequence, starting from the specified [startIndex] and optionally ignoring the case.  
`@param startIndex` The index of character to start searching at. The search proceeds backward toward the beginning of the string.  
`@param ignoreCase`true`` to ignore character case when matching a string. By default `false``.  
`@return` A pair of an index of the last occurrence of matched string from [strings] and the string matched or `null`` if none of [strings] are found.  
To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from the end toward the beginning of this string, and finds at each position the first element in [strings] that matches this string at that position.  
`public fun CharSequence.findLastAnyOf(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Pair<Int, String>?`  
`findAnyOf(strings, startIndex, ignoreCase, last = true)`  
Finds the index of the first occurrence of any of the specified [strings] in this char sequence, starting from the specified [startIndex] and optionally ignoring the case.  
`@param ignoreCase`true`` to ignore character case when matching a string. By default `false``.  
`@return` An index of the first occurrence of matched string from [strings] or -1 if none of [strings] are found.  
To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from the beginning to the end of this string, and finds at each position the first element in [strings] that matches this string at that position.  
`public fun CharSequence.indexOfAny(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Int`  
`findAnyOf(strings, startIndex, ignoreCase, last = false)?.first ?: -1`  
Finds the index of the last occurrence of any of the specified [strings] in this char sequence, starting from the specified [startIndex] and optionally ignoring the case.  
`@param startIndex` The index of character to start searching at. The search proceeds backward toward the beginning of the string.  
`@param ignoreCase`true`` to ignore character case when matching a string. By default `false``.  
`@return` An index of the last occurrence of matched string from [strings] or -1 if none of [strings] are found.  
To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from the end toward the beginning of this string, and finds at each position the first element in [strings] that matches this string at that position.  
`public fun CharSequence.lastIndexOfAny(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int`  
`findAnyOf(strings, startIndex, ignoreCase, last = true)?.first ?: -1`  
Returns the index within this string of the first occurrence of the specified character, starting from the specified [startIndex].  
`@param ignoreCase`true`` to ignore character case when matching a character. By default `false``.  
`@return` An index of the first occurrence of [char] or -1 if none is found.  
`public fun CharSequence.indexOf(char: Char, startIndex: Int = 0, ignoreCase: Boolean = false): Int`  
`return if (ignoreCase || this`is` String) indexOfAny(charArrayOf(char), startIndex, ignoreCase)`  
`else nativeIndexOf(char, startIndex)`  
Returns the index within this char sequence of the first occurrence of the specified [string], starting from the specified [startIndex].  
`@param ignoreCase`true`` to ignore character case when matching a string. By default `false``.  
`@return` An index of the first occurrence of [string] or -1 if none is found.  
`@sample samples.text.Strings.indexOf`  
`public fun CharSequence.indexOf(string: String, startIndex: Int = 0, ignoreCase: Boolean = false): Int`  
`return if (ignoreCase || this`is` String) indexOf(string, startIndex, length, ignoreCase)`  
`else nativeIndexOf(string, startIndex)`  
Returns the index within this char sequence of the last occurrence of the specified character, starting from the specified [startIndex].  
`@param startIndex` The index of character to start searching at. The search proceeds backward toward the beginning of the string.  
`@param ignoreCase`true`` to ignore character case when matching a character. By default `false``.  
`@return` An

```

index of the last occurrence of [char] or -1 if none is found.\n */\npublic fun CharSequence.lastIndexOf(char: Char,
startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n    return if (ignoreCase || this !is String)\n        lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)\n    else\n        nativeLastIndexOf(char,
startIndex)\n}\n\n/**\n * Returns the index within this char sequence of the
last occurrence of the specified [string],\n * starting from the specified [startIndex].\n * @param startIndex The
index of character to start searching at. The search proceeds backward toward the beginning of the string.\n *
@param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return An index
of the last occurrence of [string] or -1 if none is found.\n */\npublic fun CharSequence.lastIndexOf(string: String,
startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n    return if (ignoreCase || this !is String)\n        index
Of(string, startIndex, 0, ignoreCase, last = true)\n    else\n        nativeLastIndexOf(string,
startIndex)\n}\n\n/**\n * Returns `true` if this char sequence contains the specified [other] sequence of characters as
a substring.\n * @param ignoreCase `true` to ignore character case when comparing strings. By default `false`.\n */\n
*@Suppress("INAPPLICABLE_OPERATOR_MODIFIER")\npublic operator fun
CharSequence.contains(other:
CharSequence, ignoreCase: Boolean = false): Boolean =\n    if (other is String)\n        indexof(other, ignoreCase =
ignoreCase) >= 0\n    else\n        indexof(other, 0, length, ignoreCase) >= 0\n}\n\n/**\n * Returns `true` if this char
sequence contains the specified character [char].\n * @param ignoreCase `true` to ignore character case when
comparing characters. By default `false`.\n */\n*@Suppress("INAPPLICABLE_OPERATOR_MODIFIER")\npublic operator fun
CharSequence.contains(char:
Char, ignoreCase: Boolean = false): Boolean =\n    indexof(char, ignoreCase = ignoreCase) >= 0\n}\n\n/**\n * Returns
`true` if this char sequence contains at least one match of the specified regular expression [regex].\n */\n
*@kotlin.internal.InlineOnly\npublic inline operator fun CharSequence.contains(regex: Regex): Boolean =
regex.containsMatchIn(this)\n\n// rangesDelimitedBy\n\nprivate class DelimitedRangesSequence(\n    private
val input: CharSequence,\n    private val startIndex:
Int,\n    private val limit: Int,\n    private val getNextMatch: CharSequence.(currentIndex: Int) -> Pair<Int, Int>?) :
Sequence<IntRange> {\n    override fun iterator(): Iterator<IntRange> = object : Iterator<IntRange> {\n        var
nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n        var currentStartIndex: Int =
startIndex.coerceIn(0, input.length)\n        var nextSearchIndex: Int = currentStartIndex\n        var nextItem:
IntRange? = null\n        var counter: Int = 0\n        private fun calcNext() {\n            if (nextSearchIndex < 0) {\n
                nextState = 0\n                nextItem = null\n            } else {\n                if (limit > 0 && ++counter >= limit ||
nextSearchIndex > input.length) {\n                    nextItem = currentStartIndex..input.lastIndex\n
                    nextSearchIndex = -1\n                } else {\n                    val match = input.getNextMatch(nextSearchIndex)\n
                    if (match ==
null) {\n                        nextItem = currentStartIndex..input.lastIndex\n                        nextSearchIndex = -1\n
                    } else {\n                        val (index, length) = match\n                        nextItem = currentStartIndex until index\n
                        currentStartIndex = index + length\n                        nextSearchIndex = currentStartIndex + if (length ==
0) 1 else 0\n                    }\n                }\n                nextState = 1\n            }\n        }\n        override fun next():
IntRange {\n            if (nextState == -1)\n                calcNext()\n            if (nextState == 0)\n                throw
NoSuchElementException()\n            val result = nextItem as IntRange\n            // Clean next to avoid keeping
reference on yielded instance\n            nextItem = null\n            nextState = -1\n            return result\n        }\n        override fun hasNext(): Boolean {\n            if (nextState ==
-1)\n                calcNext()\n            return nextState == 1\n        }\n    }\n}\n\n/**\n * Returns a sequence of index
ranges of substrings in this char sequence around occurrences of the specified [delimiters].\n * @param
delimiters One or more characters to be used as delimiters.\n * @param startIndex The index to start searching
delimiters from.\n * No range having its start value less than [startIndex] is returned.\n * [startIndex] is coerced to
be non-negative and not greater than length of this string.\n * @param ignoreCase `true` to ignore character case
when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return. Zero
by default means no limit is set.\n */\nprivate fun CharSequence.rangesDelimitedBy(delimiters: CharArray,

```

```

startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {
    require(limit >= 0, {
        "\nLimit must be non-negative, but was $limit."
    })
    return DelimitedRangesSequence(this,
        startIndex, limit, {
            currentIndex ->
                indexOfAny(delimiters, currentIndex, ignoreCase = ignoreCase).let {
                    if (it < 0) null else it to 1
                }
        })
}

CharSequence.rangesDelimitedBy(delimiters: Array<out String>, startIndex: Int = 0, ignoreCase: Boolean = false,
    limit: Int = 0): Sequence<IntRange> {
    require(limit >= 0, {
        "\nLimit must be non-negative, but was $limit."
    })
    val delimitersList = delimiters.asList()
    return DelimitedRangesSequence(this, startIndex, limit, {
        currentIndex ->
            findAnyOf(delimitersList, currentIndex, ignoreCase = ignoreCase, last = false)?.let {
                it.first to it.second.length
            }
    })
}

CharSequence.split(delimiters: Array<out String>, ignoreCase: Boolean = false, limit: Int = 0): List<String> {
    require(limit >= 0, {
        "\nLimit must be non-negative, but was $limit."
    })
    return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map {
        substring(it)
    }
}

CharSequence.splitToSequence(delimiters: Array<out String>, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> {
    require(limit >= 0, {
        "\nLimit must be non-negative, but was $limit."
    })
    return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map {
        substring(it)
    }
}

CharSequence.splitToSequence(delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): List<String> {
    require(limit >= 0, {
        "\nLimit must be non-negative, but was $limit."
    })
    return split(delimiters.toString(), ignoreCase, limit)
}

CharSequence.splitToSequence(delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> {
    require(limit >= 0, {
        "\nLimit must be non-negative, but was $limit."
    })
    return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map {
        substring(it)
    }
}

CharSequence.split(delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): List<String> {
    require(limit >= 0, {
        "\nLimit must be non-negative, but was $limit."
    })
    return split(delimiters.toString(), ignoreCase, limit)
}

CharSequence.splitToSequence(delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> {
    require(limit >= 0, {
        "\nLimit must be non-negative, but was $limit."
    })
    return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map {
        substring(it)
    }
}

```

of split which receives single non-empty delimiter and offers better performance

```

    * @param delimiter String used as delimiter
    * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
    * @param limit The maximum number of substrings to return.
    */
private fun CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {
    require(limit >= 0, {
        "Limit must be non-negative, but was $limit."
    })
    var currentOffset = 0
    var nextIndex = indexOf(delimiter, currentOffset, ignoreCase)
    if (nextIndex == -1 || limit == 1) {
        return listOf(this.toString())
    }
    val isLimited = limit > 0
    val result = ArrayList<String>(if (isLimited) limit.coerceAtMost(10) else 10)
    do {
        result.add(substring(currentOffset, nextIndex))
        currentOffset = nextIndex + delimiter.length
        // Do not search for next occurrence if we're reaching limit
        if (isLimited && result.size == limit - 1) break
        nextIndex = indexOf(delimiter, currentOffset, ignoreCase)
    } while (nextIndex != -1)
    result.add(substring(currentOffset, length))
    return result
}

```

Splits this char sequence around matches of the given regular expression.

```

    * @param limit Non-negative value specifying the maximum number of substrings to return. Zero by default means no limit is set.
    */
@kotlin.internal.InlineOnly
public inline fun CharSequence.split(regex: Regex, limit: Int = 0): List<String> = regex.split(this, limit)

```

Splits this char sequence to a sequence of lines delimited by any of the following character sequences: CRLF, LF or CR.

```

    * The lines returned do not include terminating line separators.
    */
public fun CharSequence.lineSequence(): Sequence<String> = splitToSequence("\\r\\n", "\\n", "\\r")

```

Splits this char sequence to a list of lines delimited by any of the following character sequences: CRLF, LF or CR.

```

    * The lines returned do not include terminating line separators.
    */
public fun CharSequence.lines(): List<String> = lineSequence().toList()

```

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```

package kotlin.text
import kotlin.js.RegExp

    * Converts the characters in the specified array to a string.
    */
@SinceKotlin("1.2")
public actual fun String(chars: CharArray): String {
    var result = ""
    for (char in chars) {
        result += char
    }
    return result
}

```

Converts the characters from a portion of the specified array to a string.

```

    * @throws IndexOutOfBoundsException if either [offset] or [length] are less than zero or `offset + length` is out of [chars] array bounds.
    */
@SinceKotlin("1.2")
public actual fun String(chars: CharArray, offset: Int, length: Int): String {
    if (offset < 0 || length < 0 || chars.size - offset < length)
        throw IndexOutOfBoundsException("size: ${chars.size}; offset: $offset; length: $length")
    var result = ""
    for (index in offset until offset + length) {
        result += chars[index]
    }
    return result
}

```

Concatenates characters in this [CharArray] into a String.

```

    */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun CharArray.concatToString(): String {
    var result = ""
    for (char in this) {
        result += char
    }
    return result
}

```

Concatenates characters in this [CharArray] or its subrange into a String.

```

    * @param startIndex the beginning (inclusive) of the subrange of characters, 0 by default.
    * @param endIndex the end (exclusive) of the subrange of characters, size of this array by default.
    * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.
    * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].
    */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
@ExperimentalStdlibApi
public actual fun CharArray.concatToString(startIndex: Int = 0, endIndex: Int = this.size): String {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)
    var result = ""
    for (index in startIndex until endIndex) {
        result += this[index]
    }
    return result
}

```

Returns a [CharArray] containing characters of this string.

```

    */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun String.toCharArray(): CharArray {
    return CharArray(length) { get(it) }
}

```

Returns a [CharArray] containing characters of this string or its substring.

```

    * @param startIndex the beginning (inclusive) of the substring, 0 by default.
    * @param endIndex the end (exclusive) of the substring, length of this string by default.
    */

```

```

@throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of
this string.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n
*/\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n@ExperimentalStdlibApi\npublic actual fun String.toCharArray(startIndex: Int = 0, endIndex: Int = this.length): CharArray
{\n    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n    return CharArray(endIndex - startIndex) {
get(startIndex + it) }\n}\n\n/**\n * Decodes a string from the bytes in UTF-8 encoding in this array.\n *\n * Malformed byte sequences are replaced by the replacement char '\uFFFD'.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun ByteArray.decodeToString(): String {\n
return decodeUtf8(this, 0, size, false)\n}\n\n/**\n * Decodes a string from the bytes in UTF-8 encoding in this array
or its subrange.\n *\n * @param startIndex the beginning (inclusive)
of the subrange to decode, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to decode, size of
this array by default.\n * @param throwOnInvalidSequence specifies whether to throw an exception on malformed
byte sequence or replace it by the replacement char '\uFFFD'.\n *\n * @throws IndexOutOfBoundsException if
[startIndex] is less than zero or [endIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [startIndex] is greater than [endIndex].\n * @throws CharacterCodingException if the
byte array contains malformed UTF-8 byte sequence and [throwOnInvalidSequence] is true.\n
*/\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n@ExperimentalStdlibApi\npublic actual fun ByteArray.decodeToString(\n    startIndex: Int = 0,\n    endIndex: Int =
this.size,\n    throwOnInvalidSequence: Boolean = false\n): String {\n
AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n    return decodeUtf8(this,
startIndex, endIndex, throwOnInvalidSequence)\n}\n\n/**\n * Encodes this string to an array of bytes in UTF-8
encoding.\n *\n * Any malformed char sequence is replaced by the replacement byte sequence.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun String.encodeToByteArray(): ByteArray
{\n    return encodeUtf8(this, 0, length, false)\n}\n\n/**\n * Encodes this string or its substring to an array of bytes in
UTF-8 encoding.\n *\n * @param startIndex the beginning (inclusive) of the substring to encode, 0 by default.\n *
@param endIndex the end (exclusive) of the substring to encode, length of this string by default.\n * @param
throwOnInvalidSequence specifies whether to throw an exception on malformed char sequence or replace.\n *\n *
@throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of
this string.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n * @throws
CharacterCodingException
if this string contains malformed char sequence and [throwOnInvalidSequence] is true.\n
*/\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n@ExperimentalStdlibApi\npublic actual fun String.encodeToByteArray(\n    startIndex: Int = 0,\n    endIndex: Int =
this.length,\n    throwOnInvalidSequence: Boolean = false\n): ByteArray {\n
AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n    return encodeUtf8(this, startIndex, endIndex,
throwOnInvalidSequence)\n}\n\n/**\n * Returns a copy of this string converted to upper case using the rules of the
default locale.\n *\n * @sample samples.text.Strings.toUpperCase\n */\n@kotlin.internal.InlineOnly\npublic actual
inline fun String.toUpperCase(): String = asDynamic().toUpperCase()\n\n/**\n * Returns a copy of this string
converted to lower case using the rules of the default locale.\n *\n * @sample samples.text.Strings.toLowerCase\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline
fun String.toLowerCase(): String = asDynamic().toLowerCase()\n\n@kotlin.internal.InlineOnly\ninternal actual
inline fun String.nativeIndexOf(str: String, fromIndex: Int): Int = asDynamic().indexOf(str,
fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeLastIndexOf(str: String,
fromIndex: Int): Int = asDynamic().lastIndexOf(str, fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal inline fun
String.nativeStartsWith(s: String, position: Int): Boolean = asDynamic().startsWith(s,
position)\n\n@kotlin.internal.InlineOnly\ninternal inline fun String.nativeEndsWith(s: String): Boolean =
asDynamic().endsWith(s)\n\n@kotlin.internal.InlineOnly\npublic actual inline fun String.substring(startIndex: Int):
String = asDynamic().substring(startIndex)\n\n@kotlin.internal.InlineOnly\npublic actual inline fun

```

```

String.substring(startIndex: Int, endIndex: Int): String = asDynamic().substring(startIndex,
endIndex)\n\n@kotlin.internal.InlineOnly\npublic inline fun String.concat(str:
String): String = asDynamic().concat(str)\n\n@kotlin.internal.InlineOnly\npublic inline fun String.match(regex:
String): Array<String>? = asDynamic().match(regex)\n\n//native public fun String.trim(): String\n//TODO:
String.replace to implement effective trimLeading and trimTrailing\n\n@kotlin.internal.InlineOnly\ninternal inline
fun String.nativeReplace(pattern: RegExp, replacement: String): String = asDynamic().replace(pattern,
replacement)\n\n@SinceKotlin("1.2")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS
")\npublic actual fun String.compareTo(other: String, ignoreCase: Boolean = false): Int {\n    if (ignoreCase) {\n
val n1 = this.length\n        val n2 = other.length\n        val min = minOf(n1, n2)\n        if (min == 0) return n1 - n2\n
        var start = 0\n        while (true) {\n            val end = minOf(start + 16, min)\n            var s1 = this.substring(start,
end)\n            var s2 = other.substring(start, end)\n            if (s1 != s2) {\n
                s1 = s1.toUpperCase()\n                s2 = s2.toUpperCase()\n                if (s1 != s2) {\n                    s1 =
s1.toLowerCase()\n                    s2 = s2.toLowerCase()\n                    if (s1 != s2) {\n                        return
s1.compareTo(s2)\n                    }\n                }\n            }\n            if (end == min) break\n            start = end\n
        }\n        return n1 - n2\n    } else {\n        return compareTo(other)\n    }\n}\n\nprivate val
STRING_CASE_INSENSITIVE_ORDER = Comparator<String> { a, b -> a.compareTo(b, ignoreCase = true)
}\n\n@SinceKotlin("1.2")\npublic actual val String.Companion.CASE_INSENSITIVE_ORDER:
Comparator<String>\n    get() = STRING_CASE_INSENSITIVE_ORDER\n"/*\n * Copyright 2010-2019
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT
EDIT!\n\npackage kotlin\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class
UByteArray\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@Published
Api\ninternal constructor(@PublishedApi internal val storage: ByteArray) : Collection<UByte> {\n\n    /** Creates
a new array of the specified [size], with all elements initialized to zero. */\n    public constructor(size: Int) :
this(ByteArray(size))\n\n    /**\n     * Returns the array element at the given [index]. This method can be called
using the index operator.\n     *\n     * If the [index] is out of bounds of this array, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n     * where the behavior is unspecified.\n     *\n     public
operator fun get(index: Int): UByte = storage[index].toUByte()\n\n     /**\n     * Sets the element at the given [index]
to the given [value]. This method can be called using the index operator.\n     *\n     * If the [index] is out of bounds
of this array, throws
an [IndexOutOfBoundsException] except in Kotlin/JS\n     * where the behavior is unspecified.\n     *\n     public
operator fun set(index: Int, value: UByte) {\n        storage[index] = value.toByte()\n    }\n\n     /** Returns the
number of elements in the array. */\n     public override val size: Int get() = storage.size\n\n     /** Creates an iterator
over the elements of the array. */\n     public override operator fun iterator(): UByteIterator = Iterator(storage)\n\n
private class Iterator(private val array: ByteArray) : UByteIterator() {\n        private var index = 0\n        override fun
hasNext() = index < array.size\n        override fun nextUByte() = if (index < array.size) array[index++].toUByte()
else throw NoSuchElementException(index.toString())\n    }\n\n     override fun contains(element: UByte): Boolean
{\n        // TODO: Eliminate this check after KT-30016 gets fixed.\n        // Currently JS BE does not generate
special bridge method for this method.\n        if
((element as Any?) !is UByte) return false\n        return storage.contains(element.toByte())\n    }\n\n     override
fun containsAll(elements: Collection<UByte>): Boolean {\n        return (elements as Collection<*>).all { it is UByte
&& storage.contains(it.toByte()) }\n    }\n\n     override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n
 * Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init]
function.\n * *\n * The function [init] is called for each array element sequentially starting from the first one.\n * It
should return the value for an array element given its index.\n\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray(size: Int, init: (Int) -> UByte): UByteArray {\n    return UByteArray(ByteArray(size) { index ->
init(index).toByte()

```

```

})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ubyteArrayOf(vararg
elements: UByte): UByteArray = elements\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class
UIntArray\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: IntArray) : Collection<UInt> {\n\n /** Creates a new
array of the specified [size], with all elements initialized to zero. *\n public constructor(size: Int) :
this(IntArray(size))\n\n /**\n * Returns the array element at the given [index]. This method can be called using
the index operator.\n *\n * If the [index] is out of bounds of this array, throws an
[IndexOutOfBoundsExcepion] except in Kotlin/JS\n * where the behavior
[IndexOutOfBoundsExcepion] except in Kotlin/JS\n * where the behavior
is unspecified.\n *\n public operator fun get(index: Int): UInt = storage[index].toInt()\n\n /**\n * Sets the
element at the given [index] to the given [value]. This method can be called using the index operator.\n *\n * If
the [index] is out of bounds of this array, throws an [IndexOutOfBoundsExcepion] except in Kotlin/JS\n * where
the behavior is unspecified.\n *\n public operator fun set(index: Int, value: UInt) {\n storage[index] =
value.toInt()\n }\n\n /** Returns the number of elements in the array. *\n public override val size: Int get() =
storage.size\n\n /** Creates an iterator over the elements of the array. *\n public override operator fun iterator():
UIntIterator = Iterator(storage)\n\n private class Iterator(private val array: IntArray) : UIntIterator() {\n private
var index = 0\n override fun hasNext() = index < array.size\n override fun nextUInt() = if (index <
array.size) array[index++].toInt()
else throw NoSuchElementException(index.toString())\n }\n\n override fun contains(element: UInt): Boolean
{\n // TODO: Eliminate this check after KT-30016 gets fixed.\n // Currently JS BE does not generate
special bridge method for this method.\n if ((element as Any?) !is UInt) return false\n\n return
storage.contains(element.toInt())\n }\n\n override fun containsAll(elements: Collection<UInt>): Boolean {\n
return (elements as Collection<*>).all { it is UInt && storage.contains(it.toInt()) }\n }\n\n override fun
isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n * Creates a new array of the specified [size], where each
element is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is called for each array
element sequentially starting from the first one.\n * It should return the value for an array element given its index.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray(size: Int, init: (Int) -> UInt): UIntArray {\n return UIntArray(IntArray(size) { index ->
init(index).toInt()
})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
uintArrayOf(vararg elements: UInt): UIntArray = elements\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n *\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class
ULongArray\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: LongArray) : Collection<ULong> {\n\n /** Creates
a new array of the specified [size], with all elements initialized to zero. *\n public constructor(size: Int) :
this(LongArray(size))\n\n /**\n * Returns the array element at the given [index]. This method can be called using
the index operator.\n *\n * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsExcepion]
except in Kotlin/JS\n * where the behavior is unspecified.\n *\n public operator fun get(index: Int): ULong =
storage[index].toULong()\n\n /**\n * Sets the element at the given [index] to the given [value]. This method can
be called using the index operator.\n *\n * If the [index] is out of bounds of this array, throws an
[IndexOutOfBoundsExcepion] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n public
operator fun set(index: Int, value: ULong) {\n storage[index] = value.toLong()\n }\n\n /** Returns the

```

```

number of elements in the array. */
public override val size: Int get() = storage.size
/** Creates an iterator
over the elements of the array. */
public override operator
fun iterator(): ULongIterator = Iterator(storage)
private class Iterator(private val array: LongArray) :
ULongIterator() {
private var index = 0
override fun hasNext() = index < array.size
override fun
nextULong() = if (index < array.size) array[index++].toULong() else throw
NoSuchElementException(index.toString())
}
override fun contains(element: ULong): Boolean {
//
TODO: Eliminate this check after KT-30016 gets fixed.
// Currently JS BE does not generate special bridge
method for this method.
if ((element as Any?) !is ULong) return false
return
storage.contains(element.toLong())
}
override fun containsAll(elements: Collection<ULong>): Boolean
{
return (elements as Collection<*>).all { it is ULong && storage.contains(it.toLong()) }
}
override
fun isEmpty(): Boolean = this.storage.size == 0
}
/** Creates a new array of the specified [size], where each
element is
calculated by calling the specified [init] function.
*/
*/ The function [init] is called for each array element
sequentially starting from the first one.
*/ It should return the value for an array element given its index.
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray(size: Int, init: (Int) -> ULong): ULongArray {
return ULongArray(LongArray(size) { index ->
init(index).toLong()
})
}
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ulongArrayOf(vararg elements: ULong): ULongArray = elements
}
/* Copyright 2010-2019 JetBrains s.r.o.
and Kotlin Programming Language contributors.
*/ Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.
*/
package
kotlin
import
kotlin.experimental.*
@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public
inline class ULong @PublishedApi internal constructor(@PublishedApi internal val data: Long) :
Comparable<ULong> {
companion object {
/**
* A constant holding the minimum value an
instance of ULong can have.
*/
public const val MIN_VALUE: ULong = ULong(0)
/**
* A constant holding the maximum value an instance of ULong can have.
*/
public const val
MAX_VALUE: ULong = ULong(-1)
/**
* The number of bytes used to represent an instance of
ULong in a binary form.
*/
public const val SIZE_BYTES: Int = 8
/**
* The number of
bits used to represent an instance of ULong in a binary form.
*/
public const val SIZE_BITS: Int = 64
}
/**
* Compares this value with the specified value for order.
*/ Returns zero if this value is equal to
the specified other value,
a negative number if it's less than other,
*/ or a positive number if it's greater than other.
*/
@kotlin.internal.InlineOnly
public inline operator fun compareTo(other: UByte): Int =
this.compareTo(other.toULong())
/**
* Compares this value with the specified value for order.
*/
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
*/ or a
positive number if it's greater than other.
*/
@kotlin.internal.InlineOnly
public inline operator fun
compareTo(other: UShort): Int = this.compareTo(other.toULong())
/**
* Compares this value with the
specified value for order.
*/ Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,
*/ or a positive number if it's greater than other.
*/
@kotlin.internal.InlineOnly
public inline operator fun compareTo(other: UInt): Int = this.compareTo(other.toULong())
/**
* Compares this value with the specified value for order.
*/ Returns zero if this value is equal to the
specified other value, a negative number if it's less than other,
*/ or a positive number if it's greater than other.
*/
@kotlin.internal.InlineOnly
@Suppress("OVERRIDE_BY_INLINE")
public override inline
operator fun compareTo(other: ULong): Int = ulongCompare(this.data, other.data)
/** Adds the other value to
this value.
*/
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UByte): ULong =
this.plus(other.toULong())
/** Adds the other value to this value.
*/
@kotlin.internal.InlineOnly
public

```

```

inline operator fun plus(other: UShort): ULong = this.plus(other.toULong())\n  /** Adds the other value to this
value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun plus(other: UInt): ULong =
this.plus(other.toULong())\n  /** Adds the other value to this value.
*/\n  @kotlin.internal.InlineOnly\n  public inline operator fun plus(other: ULong): ULong =
ULong(this.data.plus(other.data))\n\n  /** Subtracts the other value from this value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun minus(other: UByte): ULong =
this.minus(other.toULong())\n  /** Subtracts the other value from this value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun minus(other: UShort): ULong = this.minus(other.toULong())\n  /** Subtracts the other
value from this value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun minus(other: UInt): ULong =
this.minus(other.toULong())\n  /** Subtracts the other value from this value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun minus(other: ULong): ULong = ULong(this.data.minus(other.data))\n\n  /** Multiplies
this value by the other value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun times(other: UByte):
ULong =
this.times(other.toULong())\n  /** Multiplies this value by the other value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun times(other: UShort): ULong = this.times(other.toULong())\n  /** Multiplies this value
by the other value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun times(other: UInt): ULong =
this.times(other.toULong())\n  /** Multiplies this value by the other value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun times(other: ULong): ULong = ULong(this.data.times(other.data))\n\n  /** Divides this
value by the other value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun div(other: UByte): ULong
= this.div(other.toULong())\n  /** Divides this value by the other value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun div(other: UShort): ULong = this.div(other.toULong())\n  /** Divides this value by the
other value. */\n  @kotlin.internal.InlineOnly\n  public
inline operator fun div(other: UInt): ULong = this.div(other.toULong())\n  /** Divides this value by the other
value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun div(other: ULong): ULong =
ulongDivide(this, other)\n\n  /** Calculates the remainder of dividing this value by the other value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun rem(other: UByte): ULong = this.rem(other.toULong())\n\n  /** Calculates the remainder of dividing this value by the other value. */\n  @kotlin.internal.InlineOnly\n  public
inline operator fun rem(other: UShort): ULong = this.rem(other.toULong())\n  /** Calculates the remainder of
dividing this value by the other value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun rem(other:
UInt): ULong = this.rem(other.toULong())\n  /** Calculates the remainder of dividing this value by the other
value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun rem(other: ULong):
ULong = ulongRemainder(this, other)\n\n  /** Increments this value. */\n  @kotlin.internal.InlineOnly\n  public
inline operator fun inc(): ULong = ULong(data.inc())\n\n  /** Decrements this value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun dec(): ULong = ULong(data.dec())\n\n  /** Creates a
range from this value to the specified [other] value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun
rangeTo(other: ULong): ULongRange = ULongRange(this, other)\n\n  /** Shifts this value left by the [bitCount]
number of bits. */\n  @kotlin.internal.InlineOnly\n  public inline infix fun shl(bitCount: Int): ULong =
ULong(data shl bitCount)\n\n  /** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits
with zeros. */\n  @kotlin.internal.InlineOnly\n  public inline infix fun shr(bitCount: Int): ULong = ULong(data
ushr bitCount)\n\n  /** Performs a bitwise AND operation between the two values. */\n  @kotlin.internal.InlineOnly\n
public inline infix fun and(other: ULong): ULong = ULong(this.data and other.data)\n\n  /** Performs a bitwise
OR operation between the two values. */\n  @kotlin.internal.InlineOnly\n  public inline infix fun or(other:
ULong): ULong = ULong(this.data or other.data)\n\n  /** Performs a bitwise XOR operation between the two
values. */\n  @kotlin.internal.InlineOnly\n  public inline infix fun xor(other: ULong): ULong = ULong(this.data
xor other.data)\n\n  /** Inverts the bits in this value. */\n  @kotlin.internal.InlineOnly\n  public inline fun inv():
ULong = ULong(data.inv())\n\n  /**\n   * Converts this [ULong] value to [Byte].\n   * If this value is less
than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n   * the same numerical value as this

```

```

`ULong`.n * The resulting `Byte` value is represented by the least significant 8 bits of this `ULong`
value.n * Note that the resulting `Byte` value may
be negative.n */n @kotlin.internal.InlineOnly\n public inline fun toByte(): Byte = data.toByte()\n /**\n
* Converts this [ULong] value to [Short].n */n * If this value is less than or equals to [Short.MAX_VALUE],
the resulting `Short` value represents\n * the same numerical value as this `ULong`.n */n * The resulting
`Short` value is represented by the least significant 16 bits of this `ULong` value.n * Note that the resulting
`Short` value may be negative.n */n @kotlin.internal.InlineOnly\n public inline fun toShort(): Short =
data.toShort()\n /**\n * Converts this [ULong] value to [Int].n */n * If this value is less than or equals to
[Int.MAX_VALUE], the resulting `Int` value represents\n * the same numerical value as this `ULong`.n */n
* The resulting `Int` value is represented by the least significant 32 bits of this `ULong` value.n * Note that the
resulting `Int` value may be negative.n
*/n @kotlin.internal.InlineOnly\n public inline fun toInt(): Int = data.toInt()\n /**\n * Converts this
[ULong] value to [Long].n */n * If this value is less than or equals to [Long.MAX_VALUE], the resulting
`Long` value represents\n * the same numerical value as this `ULong`. Otherwise the result is negative.n */n
* The resulting `Long` value has the same binary representation as this `ULong` value.n */n
@kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data\n\n /**\n * Converts this [ULong] value
to [UByte].n */n * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value
represents\n * the same numerical value as this `ULong`.n */n * The resulting `UByte` value is represented
by the least significant 8 bits of this `ULong` value.n */n @kotlin.internal.InlineOnly\n public inline fun
toUByte(): UByte = data.toUByte()\n /**\n * Converts this [ULong]
value to [UShort].n */n * If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort`
value represents\n * the same numerical value as this `ULong`.n */n * The resulting `UShort` value is
represented by the least significant 16 bits of this `ULong` value.n */n @kotlin.internal.InlineOnly\n public
inline fun toUShort(): UShort = data.toUShort()\n /**\n * Converts this [ULong] value to [UInt].n */n * If
this value is less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents\n * the same
numerical value as this `ULong`.n */n * The resulting `UInt` value is represented by the least significant 32
bits of this `ULong` value.n */n @kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt =
data.toUInt()\n /** Returns this value. */n @kotlin.internal.InlineOnly\n public inline fun toULong(): ULong
= this\n\n /**\n * Converts this [ULong] value to [Float].n
*/n * The resulting value is the closest `Float` to this `ULong` value.n * In case when this `ULong` value is
exactly between two `Float`s,\n * the one with zero at least significant bit of mantissa is selected.n */n
@kotlin.internal.InlineOnly\n public inline fun toFloat(): Float = this.toDouble().toFloat()\n /**\n * Converts
this [ULong] value to [Double].n */n * The resulting value is the closest `Double` to this `ULong` value.n *
In case when this `ULong` value is exactly between two `Double`s,\n * the one with zero at least significant bit of
mantissa is selected.n */n @kotlin.internal.InlineOnly\n public inline fun toDouble(): Double =
ulongToDouble(data)\n\n public override fun toString(): String = ulongToString(data)\n\n\n /**\n * Converts
this [Byte] value to [ULong].n */n * If this value is positive, the resulting `ULong` value represents the same
numerical value as this `Byte`.n */n * The least
significant 8 bits of the resulting `ULong` value are the same as the bits of this `Byte` value,\n * whereas the most
significant 56 bits are filled with the sign bit of this value.n
*/n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
Byte.toULong(): ULong = ULong(this.toLong())\n\n /**\n * Converts this [Short] value to [ULong].n */n * If this
value is positive, the resulting `ULong` value represents the same numerical value as this `Short`.n */n * The least
significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short` value,\n * whereas the most
significant 48 bits are filled with the sign bit of this value.n
*/n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
Short.toULong(): ULong = ULong(this.toLong())\n\n /**\n * Converts this [Int] value to [ULong].n */n * If this value
is positive, the resulting `ULong` value represents the same numerical value as this

```

```

`Int`.n * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `Int`
value.n * whereas the most significant 32 bits are filled with the sign bit of this value.n
*/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
Int.toULong(): ULong = ULong(this.toLong())n/**n * Converts this [Long] value to [ULong].n *n * If this value
is positive, the resulting `ULong` value represents the same numerical value as this `Long`.n *n * The resulting
`ULong` value has the same binary representation as this `Long` value.n
*/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
Long.toULong(): ULong = ULong(this)n/**n * Converts this [Float] value to [ULong].n *n * The fractional
part, if any, is rounded down towards zero.n * Returns zero if this `Float` value is negative or `NaN`,
[ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.n
*/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic
inline fun Float.toULong(): ULong = doubleToULong(this.toDouble())n/**n * Converts this [Double] value to
[ULong].n *n * The fractional part, if any, is rounded down towards zero.n * Returns zero if this `Double` value is
negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.n
*/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
Double.toULong(): ULong = doubleToULong(this)n",/*n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.n */n// Auto-generated file. DO NOT EDIT!n\npackage
kotlin\n\n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesnpublic inline class
UShortArray\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")n@Published
Api\ninternal constructor(@PublishedApi
internal val storage: ShortArray) : Collection<UShort> {n\n /** Creates a new array of the specified [size], with
all elements initialized to zero. */n public constructor(size: Int) : this(ShortArray(size))n /**n * Returns
the array element at the given [index]. This method can be called using the index operator.n *n * If the [index]
is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JSn * where the
behavior is unspecified.n */n public operator fun get(index: Int): UShort = storage[index].toUShort()n\n
/**n * Sets the element at the given [index] to the given [value]. This method can be called using the index
operator.n *n * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except
in Kotlin/JSn * where the behavior is unspecified.n */n public operator fun set(index: Int, value: UShort)
{n\n storage[index] = value.toShort()n
}n\n /** Returns the number of elements in the array. */n public override val size: Int get() = storage.size\n\n
/** Creates an iterator over the elements of the array. */n public override operator fun iterator(): UShortIterator =
Iterator(storage)n\n private class Iterator(private val array: ShortArray) : UShortIterator() {n private var
index = 0n override fun hasNext() = index < array.size\n override fun nextUShort() = if (index <
array.size) array[index++].toUShort() else throw NoSuchElementException(index.toString())n }n\n override
fun contains(element: UShort): Boolean {n // TODO: Eliminate this check after KT-30016 gets fixed.n //
Currently JS BE does not generate special bridge method for this method.n if ((element as Any?) !is UShort)
return false\n\n return storage.contains(element.toShort())n }n\n override fun containsAll(elements:
Collection<UShort>): Boolean {n return elements
as Collection<*>.all { it is UShort && storage.contains(it.toShort()) }n }n\n override fun isEmpty(): Boolean
= this.storage.size == 0n}\n\n/**n * Creates a new array of the specified [size], where each element is calculated
by calling the specifiedn * [init] function.n *n * The function [init] is called for each array element sequentially
starting from the first one.n * It should return the value for an array element given its index.n
*/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UShortArray(size: Int, init: (Int) -> UShort): UShortArray {n return UShortArray(ShortArray(size) { index ->
init(index).toShort()
})n}\n\n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
ushortArrayOf(vararg elements: UShort): UShortArray = elementsn",/*n * Copyright 2010-2019 JetBrains s.r.o.

```

and Kotlin Programming Language contributors.\n \* Use of this source code is governed by

the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

```
*\n\n@file:kotlin.jvm.JvmMultifileClass\n\n@file:kotlin.jvm.JvmName("UArraysKt")\n\n@file:kotlin.jvm.JvmPackageName("kotlin.collections.unsigned")\n\n\npackage kotlin.collections\n\n\n/\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n\n// See:
```

```
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n\nimport kotlin.random.*\nimport
```

```
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline operator fun UIntArray.component1(): UInt {\n *     return get(0)\n * }\n * \n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */
```

```
*\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline operator fun ULongArray.component1(): ULong {\n *     return get(0)\n * }\n * \n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */
```

```
*\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline operator fun UByteArray.component1(): UByte {\n *     return get(0)\n * }\n * \n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */
```

```
*\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline operator fun UShortArray.component1(): UShort {\n *     return get(0)\n * }\n * \n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */
```

```
*\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline operator fun UIntArray.component2(): UInt {\n *     return get(1)\n * }\n * \n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */
```

```
*\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline operator fun ULongArray.component2(): ULong {\n *     return get(1)\n * }\n * \n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */
```

```
*\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline operator fun UByteArray.component2():
```

```
UByte {\n *     return get(1)\n * }\n * \n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */
```

```
*\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline operator fun UShortArray.component2(): UShort {\n *     return get(1)\n * }\n * \n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */
```

```
*\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline operator fun UIntArray.component3(): UInt {\n *     return get(2)\n * }\n * \n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */
```

```
*\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline operator fun ULongArray.component3(): ULong {\n *     return get(2)\n * }\n * \n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */
```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component3(): UByte {\n    return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n *
If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component3(): UShort {\n    return get(2)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n *
If the size of this array is less than 4, throws an [IndexOutOfBoundsException]
except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.component4(): UInt {\n    return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n *
If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior
is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline operator fun ULongArray.component4(): ULong {\n    return get(3)\n}\n\n/**\n * Returns 4th *element* from
the array.\n * \n *
If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in
Kotlin/JS\n * where the behavior is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component4(): UByte {\n    return get(3)\n}\n\n/**\n * Returns 4th *element*
from the array.\n * \n *
If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in
Kotlin/JS\n * where the behavior is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component4(): UShort {\n    return get(3)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n *
If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.component5(): UInt {\n    return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n *
If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior
is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline operator
fun ULongArray.component5(): ULong {\n    return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n *
If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where
the behavior is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component5(): UByte {\n    return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n *
If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component5(): UShort {\n    return get(4)\n}\n\n/**\n * Returns an element at the given [index] or
throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n *
@sample samples.collections.Collections.Elements.elementAt\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.elementAt(index: Int):
UInt\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n *
@sample samples.collections.Collections.Elements.elementAt\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.elementAt(index: Int):
ULong\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index]
is out of bounds of this array.\n * \n *
@sample samples.collections.Collections.Elements.elementAt\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.elementAt(index: Int):
UByte\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index]
is out of bounds of this array.\n * \n *
@sample samples.collections.Collections.Elements.elementAt\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
    expect fun UShortArray.elementAt(index: Int): UShort\n\n/**\n * Returns an element at the given [index] or the
    result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
    samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
    UIntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n    return if (index >= 0 && index <=
    lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
    calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
    samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
    ULongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n    return if (index
    >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given
    [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n *
    @sample samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
    UByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n    return if (index >= 0 && index
    <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result
    of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
    samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
    UShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n    return if (index
    >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given
    [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
    samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
    UIntArray.elementAtOrNull(index: Int): UInt? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an element
    at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
    samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
    ULongArray.elementAtOrNull(index: Int): ULong? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an
    element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
    samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
    inline fun UByteArray.elementAtOrNull(index: Int): UByte? {\n    return this.getOrNull(index)\n}\n\n/**\n *
    Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
    samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
    UShortArray.elementAtOrNull(index: Int): UShort? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns the
    first element matching the given [predicate], or `null` if no such element was found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
    UIntArray.find(predicate: (UInt) -> Boolean): UInt? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the
    first element matching the given [predicate], or `null` if no such element was found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
    inline fun ULongArray.find(predicate: (ULong) -> Boolean): ULong? {\n    return
    firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such
    element was found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
    UByteArray.find(predicate: (UByte) -> Boolean): UByte? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns
  
```

the first element matching the given [predicate], or `null` if no such element was found.\n

```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UShortArray.find(predicate: (UShort) -> Boolean): UShort? {^n return firstOrNull(predicate)^n}^n/^n/**^n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UIntArray.findLast(predicate: (UInt) -> Boolean): UInt? {^n return lastOrNull(predicate)^n}^n/^n/**^n * Returns
the last element matching the given [predicate], or `null` if no such element was found.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
ULongArray.findLast(predicate: (ULong) -> Boolean): ULong? {^n return lastOrNull(predicate)^n}^n/^n/**^n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UByteArray.findLast(predicate: (UByte) -> Boolean): UByte? {^n return lastOrNull(predicate)^n}^n/^n/**^n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UShortArray.findLast(predicate: (UShort) -> Boolean): UShort? {^n return
lastOrNull(predicate)^n}^n/^n/**^n * Returns first element.\n * @throws [NoSuchElementException] if the array is
empty.\n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline
fun UIntArray.first(): UInt {^n return storage.first().toUInt()^n}^n/^n/**^n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
ULongArray.first(): ULong {^n return storage.first().toULong()^n}^n/^n/**^n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UByteArray.first(): UByte {^n return storage.first().toUByte()^n}^n/^n/**^n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public
inline fun UShortArray.first(): UShort {^n return storage.first().toUShort()^n}^n/^n/**^n * Returns the first element
matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UIntArray.first(predicate: (UInt) -> Boolean): UInt {^n for (element in this) if (predicate(element)) return
element\n throw NoSuchElementException("Array contains no element matching the predicate.")^n}^n/^n/**^n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
ULongArray.first(predicate: (ULong) -> Boolean): ULong {^n for (element in this) if (predicate(element)) return
element\n throw NoSuchElementException("Array contains no element matching the predicate.")^n}^n/^n/**^n
* Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UByteArray.first(predicate: (UByte) -> Boolean): UByte {^n for (element in this) if (predicate(element)) return
element\n throw NoSuchElementException("Array contains no element matching the predicate.")^n}^n/^n/**^n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UShortArray.first(predicate: (UShort) -> Boolean): UShort {^n for (element in this) if (predicate(element)) return
element\n throw NoSuchElementException("Array contains no element matching the predicate.")^n}^n/^n/**^n *
Returns the first element, or `null` if the array is empty.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public

```

```

fun UIntArray.firstOrNull(): UInt? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first
element, or `null` if the array is empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.firstOrNull(): ULong? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first
element, or `null` if the array is empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.firstOrNull(): UByte? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first
element, or `null` if the array is empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.firstOrNull(): UShort? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if element was not found.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UIntArray.firstOrNull(predicate: (UInt) -> Boolean): UInt? {\n    for (element in this) if (predicate(element))
return element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.firstOrNull(predicate: (ULong) -> Boolean): ULong? {\n    for (element in this) if (predicate(element))
return element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.firstOrNull(predicate: (UByte) -> Boolean): UByte? {\n    for (element in this) if (predicate(element))
return element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.firstOrNull(predicate: (UShort) -> Boolean): UShort? {\n    for (element in this) if
(predicate(element)) return element\n    return null\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.getOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.getOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n    return if (index >=
0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index]
or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.getOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.getOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this
array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.getOrNull(index: Int):
UInt? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.getOrNull(index: Int):
ULong? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.getOrNull(index: Int): UByte?
{\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the

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given [index] or `null` if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.getOrNull(index: Int):\nUShort? {\n
    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element],\n or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUIntArray.indexOf(element: UInt): Int {\n    return storage.indexOf(element.toInt())\n}\n\n/**\n * Returns first\n index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray.indexOf(element: ULong): Int {\n    return storage.indexOf(element.toLong())\n}\n\n/**\n * Returns\n first index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.indexOf(element: UByte): Int {\n    return storage.indexOf(element.toByte())\n}\n\n/**\n * Returns\n first index of [element], or -1 if the array does not contain\n element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline\n fun UShortArray.indexOf(element: UShort): Int {\n    return storage.indexOf(element.toShort())\n}\n\n/**\n * Returns\n index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UIntArray.indexOfFirst(predicate: (UInt) -> Boolean): Int {\n    return storage.indexOfFirst { predicate(it.toUInt())\n }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain\n such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\n inline fun ULongArray.indexOfFirst(predicate: (ULong) -> Boolean): Int {\n    return storage.indexOfFirst {\n predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate],\n or -1 if the array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {\n    return storage.indexOfFirst {\n predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the\n array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {\n    return storage.indexOfFirst {\n predicate(it.toUShort()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the\n array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {\n    return storage.indexOfLast { predicate(it.toUInt())\n }\n}\n\n/**\n * Returns\n index of the last element matching the given [predicate], or -1 if the array does not contain such\n element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline\n fun ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {\n    return storage.indexOfLast {\n predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the\n array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {\n    return storage.indexOfLast {\n predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the\n array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UShortArray.indexOfLast(predicate: (UShort) -> Boolean): Int {\n\n    return storage.indexOfLast { predicate(it.toUShort()) }\n}\n\n/**\n * Returns the last element.\n * @throws\n [NoSuchElementException] if the array is empty.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.last(): UInt {\n    return storage.last().toUInt()\n}\n\n/**\n * Returns the last element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.last(): ULong {\n    return storage.last().toULong()\n}\n\n/**\n * Returns the last element.\n *
@throws [NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.last(): UByte {\n    return storage.last().toUByte()\n}\n\n/**\n * Returns the last element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.last(): UShort {\n    return storage.last().toUShort()\n}\n\n/**\n * Returns the last element
matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.last(predicate: (UInt) -> Boolean): UInt {\n    for (index in this.indices.reversed()) {\n        val element =
this[index]\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains
no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n *
@throws [NoSuchElementException] if no such element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.last(predicate: (ULong) -> Boolean): ULong {\n    for (index in this.indices.reversed()) {\n
        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.last(predicate: (UByte) -> Boolean): UByte {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.last(predicate: (UShort) -> Boolean): UShort {\n
    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return
element\n    }\n    throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.lastIndexOf(element: UInt): Int {\n    return storage.lastIndexOf(element.toInt())\n}\n\n/**\n * Returns
last index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.lastIndexOf(element: ULong): Int {\n    return storage.lastIndexOf(element.toLong())\n}\n\n/**\n *
Returns last index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.lastIndexOf(element:
UByte): Int {\n    return storage.lastIndexOf(element.toByte())\n}\n\n/**\n * Returns last index of [element], or -1 if
the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.lastIndexOf(element: UShort): Int {\n    return storage.lastIndexOf(element.toShort())\n}\n\n/**\n *
Returns the last element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.lastOrNull(): UInt? {\n    return
if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.lastOrNull(): ULong? {\n

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return if (isEmpty()) null else this[size - 1]\n\n/**\n * Returns the last element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.lastOrNull():
UByte? {\n    return if (isEmpty()) null else this[size - 1]\n\n/**\n * Returns the last element, or `null` if the array
is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.lastOrNull():
UShort? {\n    return if (isEmpty()) null else this[size - 1]\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.lastOrNull(predicate: (UInt) -> Boolean): UInt? {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.lastOrNull(predicate: (ULong) -> Boolean): ULong?
{\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return
element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no
such element was found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.lastOrNull(predicate: (UByte) -> Boolean): UByte? {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.lastOrNull(predicate: (UShort) -> Boolean): UShort? {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns a random element from this array.\n
*\n * @throws
NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.random(): UInt {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n
*\n * @throws
NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.random(): ULong {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this
array.\n
*\n * @throws
NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.random(): UByte {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this
array.\n
*\n * @throws
NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.random(): UShort {\n    return random(Random)\n}\n\n/**\n * Returns a random element
from this array using the specified source of randomness.\n
*\n * @throws
NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.random(random:
Random): UInt {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n
*\n * @throws
NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.random(random: Random):
ULong {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n
*\n * @throws
NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.random(random: Random):
UByte {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n
*\n * @throws
NoSuchElementException if this array is empty.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.random(random: Random):
UShort {\n if (isEmpty())\n     throw NoSuchElementException("Array is empty.")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UIntArray.randomOrNull(): UInt? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns
a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun ULongArray.randomOrNull(): ULong? {\n return randomOrNull(Random)\n}\n\n/**\n *
Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UByteArray.randomOrNull(): UByte? {\n return randomOrNull(Random)\n}\n\n/**\n *
Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UShortArray.randomOrNull(): UShort? {\n return randomOrNull(Random)\n}\n\n/**\n *
Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\npublic
fun UIntArray.randomOrNull(random: Random): UInt? {\n if (isEmpty())\n     return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.randomOrNull(random: Random): ULong? {\n if (isEmpty())\n     return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.randomOrNull(random: Random): UByte? {\n if (isEmpty())\n     return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null`
if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.randomOrNull(random: Random): UShort? {\n if (isEmpty())\n     return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or
has more than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.single(): UInt {\n return storage.single().toUInt()\n}\n\n/**\n * Returns the single element, or throws an
exception if the array is empty or has more than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.single(): ULong {\n return storage.single().toULong()\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.single(): UByte {\n return storage.single().toUByte()\n}\n\n/**\n * Returns the single
element, or throws an exception if the array is empty or has more than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.single(): UShort {\n return storage.single().toUShort()\n}\n\n/**\n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.single(predicate: (UInt) -> Boolean): UInt {\n var single: UInt? = null\n var found = false\n for
(element in this) {\n     if (predicate(element)) {\n         if (found) throw IllegalArgumentException("Array
contains more than one matching element.")\n         single = element\n         found = true\n

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fun UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {\n  var single: UByte? = null\n  var found = false\n  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null\n      single = element\n      found = true\n    }\n  }\n  if (!found) return null\n  return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one\n * element was found.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {\n  var single: UShort? = null\n  var found\n= false\n  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null\n      single =\n  element\n      found = true\n    }\n  }\n  if (!found) return null\n  return single\n}\n\n/**\n * Returns a list\n * containing all elements except first [n] elements.\n * @throws IllegalArgumentException if [n] is negative.\n * @sample samples.collections.Collections.Transformations.drop\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.drop(n: Int): List<UInt> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -\n  n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * @throws\n * IllegalArgumentException if [n] is negative.\n * @sample\n * samples.collections.Collections.Transformations.drop\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.drop(n: Int): List<ULong> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -\n  n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * @throws\n * IllegalArgumentException if [n] is negative.\n * @sample\n * samples.collections.Collections.Transformations.drop\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.drop(n:\n  Int): List<UByte> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return\n  takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * @throws\n * IllegalArgumentException if [n] is negative.\n * @sample\n * samples.collections.Collections.Transformations.drop\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.drop(n: Int): List<UShort> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -\n  n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * @throws\n * IllegalArgumentException if [n] is negative.\n * @sample\n * samples.collections.Collections.Transformations.drop\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.dropLast(n: Int): List<UInt> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n]\n * elements.\n * @throws\n * IllegalArgumentException if [n] is negative.\n * @sample\n * samples.collections.Collections.Transformations.drop\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.dropLast(n: Int):\n  List<ULong> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return take((size -\n  n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * @throws\n * IllegalArgumentException if [n] is negative.\n * @sample\n * samples.collections.Collections.Transformations.drop\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.dropLast(n: Int): List<UByte>\n  {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return take((size -\n  n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last\n * [n] elements.\n * @throws\n * IllegalArgumentException if [n] is negative.\n * @sample\n * samples.collections.Collections.Transformations.drop\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.dropLast(n: Int):\n  List<UShort> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return take((size -

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n).coerceAtLeast(0))\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.dropLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n  for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n      return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n *
Returns a list containing all elements except last elements that satisfy the given [predicate].\n
* \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n  for (index in lastIndex downTo 0)
{\n  if (!predicate(this[index])) {\n      return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n
* Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n  for (index in lastIndex downTo 0)
{\n  if (!predicate(this[index])) {\n      return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n
* Returns a list containing all elements except last elements that satisfy
the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n  for (index in lastIndex downTo
0) {\n  if (!predicate(this[index])) {\n      return take(index + 1)\n    }\n  }\n  return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.dropWhile(predicate: (UInt) -> Boolean): List<UInt> {\n  var yielding = false\n  val list =
ArrayList<UInt>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n
list.add(item)\n    }\n  yielding = true\n  }\n  return list\n}\n\n/**\n * Returns a list containing all elements except first elements that
satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong> {\n  var yielding = false\n  val list =
ArrayList<ULong>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item))
{\n      list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte>
{\n  var yielding = false\n  val list = ArrayList<UByte>()\n  for (item in this)\n    if (yielding)\n
list.add(item)\n    else if (!predicate(item)) {\n      list.add(item)\n      yielding = true\n    }\n  return
list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n
* @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort> {\n  var yielding = false\n  val list =
ArrayList<UShort>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item))
{\n      list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing only
elements matching the given [predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {\n  return filterTo(ArrayList<UInt>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {\n    return filterTo(ArrayList<ULong>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte> {\n    return filterTo(ArrayList<UByte>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.filter(predicate:
(UShort) -> Boolean): List<UShort> {\n    return filterTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Returns a
list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of
an element and the element itself\n * and returns the result of predicate evaluation on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.filterIndexed(predicate: (index: Int, UInt) -> Boolean): List<UInt> {\n    return
filterIndexedTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n *
and returns the result of predicate evaluation on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filterIndexed(predicate: (index: Int, ULong) -> Boolean):
List<ULong> {\n    return filterIndexedTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing
only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element
and the element itself\n * and returns the result of predicate evaluation on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filterIndexed(predicate: (index: Int, UByte) -> Boolean): List<UByte> {\n    return
filterIndexedTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n *
and returns the result of predicate evaluation on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.filterIndexed(predicate: (index: Int, UShort) -> Boolean): List<UShort> {\n
    return filterIndexedTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterIndexedTo(destination: C, predicate: (index: Int, UInt) -> Boolean): C
{\n    forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n
return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <C : MutableCollection<in ULong>> ULongArray.filterIndexedTo(destination: C, predicate: (index: Int,
ULong) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element))
destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterIndexedTo(destination: C, predicate: (index: Int, UByte) ->
Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element))
destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n

```

\* @param [predicate] function that takes the index of an element and the element itself and returns the result of predicate evaluation on the element.

```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <C :
MutableCollection<in UShort>> UShortArray.filterIndexedTo(destination: C, predicate: (index: Int, UShort) ->
Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element))
            destination.add(element)
    }
    return destination
}

```

\* Returns a list containing all elements not matching the given [predicate].

```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UIntArray.filterNot(predicate: (UInt) -> Boolean): List<UInt> {
    return filterNotTo(ArrayList<UInt>(),
        predicate)
}

```

\* Returns a list containing all elements not matching the given [predicate].

```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public
inline fun ULongArray.filterNot(predicate: (ULong) -> Boolean): List<ULong> {
    return
        filterNotTo(ArrayList<ULong>(), predicate)
}

```

\* Returns a list containing all elements not matching the given [predicate].

```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UByteArray.filterNot(predicate: (UByte) -> Boolean): List<UByte> {
    return filterNotTo(ArrayList<UByte>(),
        predicate)
}

```

\* Returns a list containing all elements not matching the given [predicate].

```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UShortArray.filterNot(predicate: (UShort) -> Boolean): List<UShort> {
    return
        filterNotTo(ArrayList<UShort>(), predicate)
}

```

\* Appends all elements not matching the given [predicate] to the given [destination].

```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <C :
MutableCollection<in
    UInt>> UIntArray.filterNotTo(destination: C, predicate: (UInt) -> Boolean): C {
    for (element in this) if
        (!predicate(element)) destination.add(element)
    return destination
}

```

\* Appends all elements not matching the given [predicate] to the given [destination].

```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <C :
MutableCollection<in ULong>> ULongArray.filterNotTo(destination: C, predicate: (ULong) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

```

\* Appends all elements not matching the given [predicate] to the given [destination].

```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <C :
MutableCollection<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (UByte) -> Boolean): C {
    for
        (element in this) if (!predicate(element)) destination.add(element)
    return
        destination
}

```

\* Appends all elements not matching the given [predicate] to the given [destination].

```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <C :
MutableCollection<in UShort>> UShortArray.filterNotTo(destination: C, predicate: (UShort) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

```

\* Appends all elements matching the given [predicate] to the given [destination].

```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <C :
MutableCollection<in UInt>> UIntArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C {
    for (element
        in this) if (predicate(element)) destination.add(element)
    return destination
}

```

\* Appends all elements matching the given [predicate] to the given [destination].

```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public
inline fun <C : MutableCollection<in ULong>> ULongArray.filterTo(destination: C, predicate: (ULong) ->
Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return
        destination
}

```

\* Appends all elements matching the given [predicate] to the given [destination].

```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <C :
MutableCollection<in UByte>> UByteArray.filterTo(destination: C, predicate: (UByte) -> Boolean): C {
    for

```

```

(element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterTo(destination: C, predicate: (UShort) -> Boolean): C {\n for
(element in this) if (predicate(element))
destination.add(element)\n return destination\n}\n\n/**\n * Returns a list containing elements at indices in the
specified [indices] range.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.slice(indices: IntRange): List<UInt> {\n if (indices.isEmpty()) return listOf()\n return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at
indices in the specified [indices] range.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.slice(indices: IntRange): List<ULong> {\n if (indices.isEmpty()) return listOf()\n return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at
indices in the specified [indices] range.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.slice(indices: IntRange): List<UByte> {\n if (indices.isEmpty()) return listOf()\n return
copyOfRange(indices.start,
indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified
[indices] range.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.slice(indices: IntRange): List<UShort> {\n if (indices.isEmpty()) return listOf()\n return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at
specified [indices].\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.slice(indices: Iterable<Int>): List<UInt> {\n val size = indices.collectionSizeOrDefault(10)\n if (size
== 0) return emptyList()\n val list = ArrayList<UInt>(size)\n for (index in indices) {\n list.add(get(index))\n
}\n return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: Iterable<Int>):
List<ULong> {\n val size = indices.collectionSizeOrDefault(10)\n
if (size == 0) return emptyList()\n val list = ArrayList<ULong>(size)\n for (index in indices) {\n
list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: Iterable<Int>):
List<UByte> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<UByte>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: Iterable<Int>):
List<UShort> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<UShort>(size)\n for (index in indices) {\n list.add(get(index))\n }\n
return list\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices:
Collection<Int>): UIntArray {\n return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array
containing elements of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sliceArray(indices:
Collection<Int>): ULongArray {\n return ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array
containing elements of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sliceArray(indices:
Collection<Int>): UByteArray {\n return UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array
containing elements of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sliceArray(indices:
Collection<Int>): UShortArray {\n return UShortArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an
array containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices: IntRange):

```

```

UIntArray {
    return UIntArray(storage.sliceArray(indices))
}
/**
 * Returns an array containing elements at
indices in the specified [indices] range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
UByteArray.sliceArray(indices: IntRange): UByteArray {
    return
UByteArray(storage.sliceArray(indices))
}
/**
 * Returns an array containing elements at indices in the
specified [indices]
range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
UShortArray.sliceArray(indices:
IntRange): UShortArray {
    return UShortArray(storage.sliceArray(indices))
}
/**
 * Returns a list
containing first [n] elements.
 */
@throws IllegalArgumentException if [n] is negative.
 */
@sample
samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.take(n: Int): List<UInt> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >=
size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<UInt>(n)
    for
(item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}
/**
 * Returns
a list containing first [n] elements.
 */
@throws IllegalArgumentException if [n] is negative.
 */
@sample
samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.take(n: Int): List<ULong> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >=
size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<ULong>(n)
    for
(item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}
/**
 * Returns
a list containing first [n] elements.
 */
@throws IllegalArgumentException if [n] is negative.
 */
@sample
samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.take(n: Int): List<UByte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >=
size) return toList()
    if (n == 1) return listOf(this[0])
    var count
= 0
    val list = ArrayList<UByte>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}
/**
 * Returns a list containing first [n] elements.
 */
@throws
IllegalArgumentException if [n] is negative.
 */
@sample
samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.take(n: Int): List<UShort> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >=
size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<UShort>(n)
    for
(item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}
/**
 * Returns
a list containing last [n] elements.
 */
@throws IllegalArgumentException if [n] is negative.
 */
@sample
samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.takeLast(n: Int): List<UInt> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size =
size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<UInt>(n)
    for
(index in size - n until size)
        list.add(this[index])
    return list
}
/**
 * Returns a list containing last
[n] elements.
 */
@throws IllegalArgumentException if [n] is negative.
 */
@sample
samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.takeLast(n: Int): List<ULong> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size =
size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list =
ArrayList<ULong>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}
/**
 * Returns a list containing last [n] elements.
 */
@throws
IllegalArgumentException if [n] is negative.
 */
@sample
samples.collections.Collections.Transformations.take

```

```

@sample samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.takeLast(n: Int): List<UByte>
{\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val
size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list =
ArrayList<UByte>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UShortArray.takeLast(n: Int): List<UShort> {\n    require(n >= 0) { \"Requested element count $n is less than
zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return
listOf(this[size - 1])\n    val list = ArrayList<UShort>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    for (index in lastIndex downTo 0) {\n
if (!predicate(this[index]))\n        return drop(index + 1)\n    }\n    return toList()\n}\n\n/**\n * Returns a
list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    for (index in lastIndex downTo 0)
{\n    if (!predicate(this[index])) {\n        return drop(index + 1)\n    }\n    }\n    return toList()\n}\n\n/**\n *
Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n    for (index in lastIndex downTo 0)
{\n    if (!predicate(this[index])) {\n        return drop(index + 1)\n    }\n    }\n    return toList()\n}\n\n/**\n *
Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n    for (index in lastIndex downTo 0)
{\n    if (!predicate(this[index])) {\n        return drop(index + 1)\n    }\n    }\n    return toList()\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.takeWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    val list = ArrayList<UInt>()\n    for (item in
this) {\n    if (!predicate(item))\n        break\n    list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list
containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    val list =
ArrayList<ULong>()\n    for (item in this) {\n    if (!predicate(item))\n        break\n    list.add(item)\n    }\n
return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.takeWhile(predicate: (UByte) -> Boolean): List<UByte> {\n    val list = ArrayList<UByte>()\n    for
(item in this) {\n    if (!predicate(item))\n        break\n    list.add(item)\n    }\n    return list\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n

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*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^@public
inline fun UShortArray.takeWhile(predicate: (UShort) -> Boolean): List<UShort> {^n val list =
ArrayList<UShort>()^n for (item in this) {^n if (!predicate(item))^n break^n list.add(item)^n }^n
return list^}^n/n/**^n * Reverses elements in the array in-place.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^@public inline fun
UIntArray.reverse(): Unit {^n storage.reverse()^}^n/n/**^n * Reverses elements in the array in-place.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^@public inline fun
ULongArray.reverse(): Unit {^n storage.reverse()^}^n/n/**^n * Reverses elements in the array in-place.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^@public inline fun
UByteArray.reverse(): Unit {^n storage.reverse()^}^n/n/**^n * Reverses elements in the array in-place.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^@public
inline fun UShortArray.reverse(): Unit {^n storage.reverse()^}^n/n/**^n * Returns a list with elements in reversed
order.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@public fun UIntArray.reversed(): List<UInt>
{^n if (isEmpty()) return emptyList()^n val list = toMutableList()^n list.reverse()^n return list^}^n/n/**^n *
Returns a list with elements in reversed order.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@public
fun ULongArray.reversed(): List<ULong> {^n if (isEmpty()) return emptyList()^n val list = toMutableList()^n
list.reverse()^n return list^}^n/n/**^n * Returns a list with elements in reversed order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@public fun UByteArray.reversed(): List<UByte> {^n
if (isEmpty()) return emptyList()^n val list = toMutableList()^n list.reverse()^n return list^}^n/n/**^n * Returns
a list
with elements in reversed order.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@public fun
UShortArray.reversed(): List<UShort> {^n if (isEmpty()) return emptyList()^n val list = toMutableList()^n
list.reverse()^n return list^}^n/n/**^n * Returns an array with elements of this array in reversed order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^@public inline fun
UIntArray.reversedArray(): UIntArray {^n return UIntArray(storage.reversedArray())^}^n/n/**^n * Returns an
array with elements of this array in reversed order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^@public inline fun
ULongArray.reversedArray(): ULongArray {^n return ULongArray(storage.reversedArray())^}^n/n/**^n *
Returns an array with elements of this array in reversed order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^@public inline fun
UByteArray.reversedArray(): UByteArray
{^n return UByteArray(storage.reversedArray())^}^n/n/**^n * Returns an array with elements of this array in
reversed order.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^@public
inline fun UShortArray.reversedArray(): UShortArray {^n return
UShortArray(storage.reversedArray())^}^n/n/**^n * Sorts elements in the array in-place descending according to
their natural sort order.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@public fun
UIntArray.sortDescending(): Unit {^n if (size > 1) {^n sort()^n reverse()^n }^}^n/n/**^n * Sorts elements
in the array in-place descending according to their natural sort order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@public fun ULongArray.sortDescending(): Unit {^n if
(size > 1) {^n sort()^n reverse()^n }^}^n/n/**^n * Sorts elements in the array in-place descending
according to their natural sort order.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@public
fun UByteArray.sortDescending(): Unit {^n if (size > 1) {^n sort()^n reverse()^n }^}^n/n/**^n * Sorts
elements in the array in-place descending according to their natural sort order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@public fun UShortArray.sortDescending(): Unit {^n
if (size > 1) {^n sort()^n reverse()^n }^}^n/n/**^n * Returns a list of all elements sorted according to their
natural sort order.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@public fun UIntArray.sorted():
List<UInt> {^n return copyOf().apply { sort() }.asList()^}^n/n/**^n * Returns a list of all elements sorted
according to their natural sort order.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@public fun

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ULongArray.sorted(): List<ULong> {\n  return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all
elements sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UByteArray.sorted(): List<UByte> {\n  return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of
all elements sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sorted(): List<UShort> {\n
return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns an array with all elements of this array sorted
according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.sortedArray(): UIntArray {\n  if (isEmpty()) return this\n  return this.copyOf().apply { sort()
}\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArray(): ULongArray
{\n  if (isEmpty()) return this\n  return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all
elements of
this array sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArray(): UByteArray {\n
if (isEmpty()) return this\n  return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements
of this array sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArray(): UShortArray
{\n  if (isEmpty()) return this\n  return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all
elements of this array sorted descending according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArrayDescending():
UIntArray {\n  if (isEmpty()) return this\n  return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns
an array with all elements of this array sorted descending according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun ULongArray.sortedArrayDescending(): ULongArray {\n  if (isEmpty()) return this\n  return
this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted
descending according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArrayDescending():
UByteArray {\n  if (isEmpty()) return this\n  return this.copyOf().apply { sortDescending() }\n}\n\n/**\n *
Returns an array with all elements of this array sorted descending according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArrayDescending():
UShortArray {\n  if (isEmpty()) return this\n  return this.copyOf().apply { sortDescending() }\n}\n\n/**\n *
Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It
means that equal elements preserve their order
relative to each other after sorting.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.sortedDescending(): List<UInt> {\n  return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a
list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that
equal elements preserve their order relative to each other after sorting.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedDescending():
List<ULong> {\n  return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted
descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve
their order relative to each other after sorting.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UByteArray.sortedDescending(): List<UByte> {\n  return copyOf().apply { sort() }.reversed()\n}\n\n/**\n *
Returns a list of
all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal
elements preserve their order relative to each other after sorting.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedDescending():
List<UShort> {\n  return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns an array of type [ByteArray],

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which is a view of this array where each element is a signed reinterpretation of the corresponding element of this array.

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*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.asByteArray(): ByteArray {n    return storage\n}\n\n**\n * Returns an array of type [IntArray], which
is a view of this array where each element is a signed reinterpretation of the corresponding element of this
array.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.asIntArray(): IntArray
{n    return storage\n}\n\n**\n * Returns a [List] that wraps the original array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic expect fun UIntArray.asList():
List<UInt>\n\n**\n * Returns a [List] that wraps the original array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic expect fun ULongArray.asList():
List<ULong>\n\n**\n * Returns a [List] that wraps the original array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic expect fun UByteArray.asList():
List<UByte>\n\n**\n * Returns a [List] that wraps the original array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic expect fun UShortArray.asList():
List<UShort>\n\n**\n * Returns an array of type [LongArray], which is a view of this array where each element is
a signed reinterpretation of the corresponding element of this array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.asLongArray():
LongArray {n    return storage\n}\n\n**\n * Returns an array of type [ShortArray], which is a view of this array
where each element is a signed reinterpretation of the corresponding element of this array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.asShortArray(): ShortArray {n    return storage\n}\n\n**\n * Returns an array of type [UByteArray],
which is a view of this array where each element is an unsigned reinterpretation of the corresponding element of
this array.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline
fun ByteArray.asUByteArray(): UByteArray {n    return UByteArray(this)\n}\n\n**\n * Returns an array of type
[UIntArray], which is a view of this array where each element is an unsigned reinterpretation of the
corresponding element of this array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic
inline fun IntArray.asUIntArray(): UIntArray {n    return UIntArray(this)\n}\n\n**\n * Returns an array of type
[ULongArray], which is a view of this array where each element is an unsigned reinterpretation of the
corresponding element of this array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
LongArray.asULongArray(): ULongArray {n    return ULongArray(this)\n}\n\n**\n * Returns an array of type
[UShortArray], which is a view of this array where each element is an unsigned reinterpretation of the
corresponding element of this array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.asUShortArray(): UShortArray {n    return UShortArray(this)\n}\n\n**\n * Returns `true` if the two
specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the
same order.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic
infix fun UIntArray.contentEquals(other: UIntArray): Boolean {n    return
storage.contentEquals(other.storage)\n}\n\n**\n * Returns `true` if the two specified arrays are *structurally* equal
to one another,\n * i.e. contain the same number of the same elements in the same order.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic infix fun ULongArray.contentEquals(other:
ULongArray): Boolean {n    return storage.contentEquals(other.storage)\n}\n\n**\n * Returns `true` if the two
specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the
same order.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic infix fun
UByteArray.contentEquals(other: UByteArray): Boolean {n    return
storage.contentEquals(other.storage)\n}\n\n**\n * Returns `true` if the two specified arrays are *structurally* equal

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to one another, \n \* i.e. contain the same number of the same elements in the same order. \n \* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n public infix fun UShortArray.contentEquals(other: UShortArray): Boolean { \n return storage.contentEquals(other.storage) \n } \n \n /\*\* \n \* Returns a hash code based on the contents of this array as if it is [List]. \n \* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n public fun UIntArray.contentHashCode(): Int { \n return storage.contentHashCode() \n } \n \n /\*\* \n \* Returns a hash code based on the contents of this array as if it is [List]. \n \* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n public fun ULongArray.contentHashCode(): Int { \n return storage.contentHashCode() \n } \n \n /\*\* \n \* Returns a hash code based on the contents of this array as if it is [List]. \n \* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n public fun UByteArray.contentHashCode(): Int { \n return storage.contentHashCode() \n } \n \n /\*\* \n \* Returns a hash code based on the contents of this array as if it is [List]. \n \* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n public fun UShortArray.contentHashCode(): Int { \n return storage.contentHashCode() \n } \n \n /\*\* \n \* Returns a string representation of the contents of the specified array as if it is [List]. \n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString \n \* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n public fun UIntArray.contentToString(): String { \n return joinToString(", ", "[", "]") \n } \n \n /\*\* \n \* Returns a string representation of the contents of the specified array as if it is [List]. \n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString \n \* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n public fun ULongArray.contentToString(): String { \n return joinToString(", ", "[", "]") \n } \n \n /\*\* \n \* Returns a string representation of the contents of the specified array as if it is [List]. \n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString \n \* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n public fun UByteArray.contentToString(): String { \n return joinToString(", ", "[", "]") \n } \n \n /\*\* \n \* Returns a string representation of the contents of the specified array as if it is [List]. \n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString \n \* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n public fun UShortArray.contentToString(): String { \n return joinToString(", ", "[", "]") \n } \n \n /\*\* \n \* Copies this array or its subrange into the [destination] array and returns that array. \n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. \n \* \n \* @param destination the array to copy to. \n \* \n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default. \n \* \n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default. \n \* \n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. \n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n \* \n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n \* \n \* or when that index is out of the [destination] array indices range. \n \* \n \* @return the [destination] array. \n \* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public inline fun UIntArray.copyInto(destination: UIntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UIntArray { \n storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex) \n return destination \n } \n \n /\*\* \n \* Copies this array or its subrange into the [destination] array and returns that array. \n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. \n \* \n \* @param destination the array to copy to. \n \* \n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default. \n \* \n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default. \n \* \n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. \n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n \* \n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array

starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \*  
 \n \* @return the [destination] array.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyInto(destination: ULongArray, destinationOffset: Int = 0, startIndex:
Int = 0, endIndex: Int = size): ULongArray {
    storage.copyInto(destination.storage, destinationOffset, startIndex,
endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and
returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so
that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param
destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the
beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the
subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination]
array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices
range.\n * \n * @return the [destination] array.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UByteArray {
    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n    return
destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n *
It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the
destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the
[destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy,
0 by default.\n * @param
endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this
array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange
doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the
[destination] array indices range.\n * \n * @return the [destination] array.\n
```

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyInto(destination: UShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int =
size): UShortArray {
    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n    return
destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n
```

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyOf(): UIntArray {
    return UIntArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is
a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n
```

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyOf(): ULongArray {
    return ULongArray(storage.copyOf())\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n
```

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyOf(): UByteArray {
    return UByteArray(storage.copyOf())\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n
```

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.copyOf(): UShortArray {
    return UShortArray(storage.copyOf())\n}\n\n/**\n * Returns
new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or
padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the
copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra
elements in the copy array are filled with zero values.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyOf(newSize: Int): UIntArray {\n    return UIntArray(storage.copyOf(newSize))\n}\n\n/**\n *
Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either
truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size
of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the
original array, the extra elements in the copy array are filled with zero values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyOf(newSize: Int): ULongArray {\n    return ULongArray(storage.copyOf(newSize))\n}\n\n/**\n *
Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either
truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the
original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original
array, the extra elements in the copy array are filled with zero values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyOf(newSize: Int): UByteArray {\n    return
    UByteArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array,
resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n
*\n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If
[newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero
values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UShortArray.copyOf(newSize: Int): UShortArray {\n    return
    UShortArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of
the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n *
@param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.copyOfRange(fromIndex: Int, toIndex: Int): UIntArray {\n    return
    UIntArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the
specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in
`0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyOfRange(fromIndex: Int, toIndex: Int): ULongArray {\n    return
    ULongArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the
specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in
`0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.copyOfRange(fromIndex: Int, toIndex: Int): UByteArray {\n    return
    UByteArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the
specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in
`0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyOfRange(fromIndex: Int, toIndex: Int): UShortArray {\n    return
    UShortArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the
specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param
toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex]
is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.fill(element: UInt, fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toInt(),
fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n *

```

@param fromIndex the start of the range (inclusive), 0 by default.\n \* @param toIndex the end of the range (exclusive), size of this array by default.\n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*  
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.fill(element: ULong, fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toLong(), fromIndex, toIndex)\n}\n\n\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* @param fromIndex the start of the range (inclusive), 0 by default.\n \* @param toIndex the end of the range (exclusive), size of this array by default.\n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*  
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.fill(element: UByte, fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toByte(), fromIndex, toIndex)\n}\n\n\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* @param fromIndex the start of the range (inclusive), 0 by default.\n \* @param toIndex the end of the range (exclusive), size of this array by default.\n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*  
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.fill(element: UShort, fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toShort(), fromIndex, toIndex)\n}\n\n\*\*\n \* Returns the range of valid indices for the array.\n \*  
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.indices: IntRange\n get() = storage.indices\n\n\*\*\n \* Returns the range of valid indices for the array.\n \*  
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.indices: IntRange\n get() = storage.indices\n\n\*\*\n \* Returns the range of valid indices for the array.\n \*  
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.indices: IntRange\n get() = storage.indices\n\n\*\*\n \* Returns the range of valid indices for the array.\n \*  
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.indices: IntRange\n get() = storage.indices\n\n\*\*\n \* Returns the last valid index for the array.\n \*  
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.lastIndex: Int\n get() = storage.lastIndex\n\n\*\*\n \* Returns the last valid index for the array.\n \*  
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.lastIndex: Int\n get() = storage.lastIndex\n\n\*\*\n \* Returns the last valid index for the array.\n \*  
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.lastIndex: Int\n get() = storage.lastIndex\n\n\*\*\n \* Returns the last valid index for the array.\n \*  
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.lastIndex: Int\n get() = storage.lastIndex\n\n\*\*\n \* Returns an array containing all elements of the original array and then the given [element].\n \*  
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.plus(element: UInt): UIntArray {\n return UIntArray(storage + element.toInt())\n}\n\n\*\*\n \* Returns an array containing all elements of the original array and then the given [element].\n \*  
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.plus(element: ULong): ULongArray {\n return ULongArray(storage + element.toLong())\n}\n\n\*\*\n \* Returns an array containing all elements of the original array and then the given [element].\n \*  
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.plus(element: UByte): UByteArray {\n return UByteArray(storage + element.toByte())\n}\n\n\*\*\n \* Returns an array containing all elements of the original array and then the given [element].\n \*  
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.plus(element: UShort): UShortArray {\n return UShortArray(storage + element.toShort())\n}\n\n\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*  
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator

```

fun UIntArray.plus(elements: Collection<UInt>): UIntArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toInt()
    return UIntArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all elements
 * of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator fun
ULongArray.plus(elements: Collection<ULong>): ULongArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toLong()
    return ULongArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements]
 * collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator fun
UByteArray.plus(elements: Collection<UByte>): UByteArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toByte()
    return UByteArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all elements
 * of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator fun
UShortArray.plus(elements: Collection<UShort>): UShortArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toShort()
    return UShortArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all
 * elements
 * of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun
UIntArray.plus(elements: UIntArray): UIntArray {
    return UIntArray(storage + elements.storage)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun
ULongArray.plus(elements: ULongArray): ULongArray {
    return ULongArray(storage +
elements.storage)
}

/**
 * Returns an array containing all elements of the original
 * of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun
UByteArray.plus(elements: UByteArray): UByteArray {
    return UByteArray(storage +
elements.storage)
}

/**
 * Returns an array containing all elements of the original
 * array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun
UShortArray.plus(elements: UShortArray): UShortArray {
    return UShortArray(storage +
elements.storage)
}

/**
 * Sorts the array in-place.
 */
@sample
samples.collections.Arrays.Sorting.sortArray
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public
fun UIntArray.sort(): Unit {
    if (size > 1) sortArray(this)
}

/**
 * Sorts the array in-place.
 */
@sample
samples.collections.Arrays.Sorting.sortArray
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public
fun ULongArray.sort(): Unit {
    if (size > 1) sortArray(this)
}

/**
 * Sorts the array in-place.
 */
@sample
samples.collections.Arrays.Sorting.sortArray
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sort(): Unit {
    if (size > 1)
sortArray(this)
}

/**
 * Sorts the
 * array in-place.
 */
@sample
samples.collections.Arrays.Sorting.sortArray
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sort(): Unit {
    if (size > 1)
sortArray(this)
}

/**
 * Returns an array of type [ByteArray], which is a copy of this array where each element
 * is a signed reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.toByteArray(): ByteArray {
    return storage.copyOf()
}

/**
 * Returns an array of type
 * [IntArray], which is a copy of this array where each element is a signed reinterpretation
 * of the corresponding
 * element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

```

```

UIntArray.toIntArray(): IntArray {
    return storage.copyOf()
}

/**
 * Returns an array of type [LongArray],
 which is a copy of this array where each element
 is a signed reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.toLongArray(): LongArray {
    return storage.copyOf()
}

/**
 * Returns an array of type
 [ShortArray], which is a copy of this array where each element is a signed reinterpretation
 * of the corresponding
 element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.toShortArray(): ShortArray {
    return storage.copyOf()
}

/**
 * Returns a *typed* object array
 containing all of the elements of this primitive array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.toTypedArray(): Array<UInt>
{
    return Array(size) { index -> this[index] }
}

/**
 * Returns a *typed* object array containing all of the
 elements of this primitive array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public
fun ULongArray.toTypedArray(): Array<ULong> {
    return Array(size) { index -> this[index] }
}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.toTypedArray():
Array<UByte> {
    return Array(size) { index -> this[index] }
}

/**
 * Returns a *typed* object array
 containing all of the elements of this primitive array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.toTypedArray():
Array<UShort> {
    return Array(size) { index -> this[index] }
}

/**
 * Returns an array of UByte containing
 all of the elements of this generic array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
Array<out UByte>.toUByteArray(): UByteArray {
    return UByteArray(size) { index -> this[index] }
}

/**
 * Returns an array of type [UByteArray], which is a copy of this array where each
 element is an unsigned reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ByteArray.toUByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of
 UInt containing all of the elements of this generic array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Array<out UInt>.toUIntArray(): UIntArray
{
    return UIntArray(size) { index -> this[index] }
}

/**
 * Returns an array of type [UIntArray], which is a
 copy of this array where each element is an unsigned reinterpretation
 * of the corresponding element of this
 array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
IntArray.toUIntArray(): UIntArray {
    return UIntArray(this.copyOf())
}

/**
 * Returns an array of ULong
 containing all of the elements of this generic array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public
fun Array<out ULong>.toULongArray(): ULongArray {
    return ULongArray(size) { index -> this[index]
}
}

/**
 * Returns an array of type [ULongArray], which is a copy of this array where each element is an
 unsigned reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
LongArray.toULongArray(): ULongArray {
    return ULongArray(this.copyOf())
}

/**
 * Returns an array
 of UShort containing all of the elements of this generic array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Array<out UShort>.toUShortArray():
UShortArray {
    return UShortArray(size) { index -> this[index] }
}

/**
 * Returns an array of type
 [UShortArray], which is a copy of this array where each element is an unsigned reinterpretation
 * of the
 corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun ShortArray.toUShortArray(): UShortArray {
    return UShortArray(this.copyOf())
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of
 original array.
 */
@sample samples.collections.Collections.Transformations.flatMap

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.flatMap(transform: (UInt) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.flatMap(transform: (ULong) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.flatMap(transform: (UByte) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.flatMap(transform: (UShort) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked
on each element of original array, to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.flatMapTo(destination: C, transform: (UInt) -> Iterable<R>): C {\n    for
(element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.flatMapTo(destination: C, transform: (ULong) -> Iterable<R>): C {\n    for
(element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being
invoked on each element of original array, to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.flatMapTo(destination: C, transform: (UByte) -> Iterable<R>): C {\n    for
(element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.flatMapTo(destination: C, transform: (UShort) -> Iterable<R>): C {\n    for
(element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Groups elements of the original array by the key returned by
the given [keySelector] function\n * applied to each element and returns a map where each group key is associated
with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>
UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> {\n    return groupByTo(LinkedHashMap<K,
MutableList<UInt>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the
given [keySelector] function\n * applied to each element and returns a map where each group key is associated with
a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced
from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

```

```

inline fun <K> ULongArray.groupBy(keySelector: (ULong) -> K): Map<K, List<ULong>> {
    return groupByTo(LinkedHashMap<K, MutableList<ULong>>(), keySelector)
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and returns a map where each group key is associated with a list of corresponding elements.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 * @sample samples.collections.Collections.Transformations.groupBy
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K> UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> {
    return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector)
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector]
 * function
 * applied to each element and returns a map where each group key is associated with a list of
 * corresponding elements.
 * The returned map preserves the entry iteration order of the keys produced from the
 * original array.
 * @sample samples.collections.Collections.Transformations.groupBy
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K> UShortArray.groupBy(keySelector: (UShort) -> K): Map<K, List<UShort>> {
    return groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector)
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array
 * by the key returned by the given [keySelector] function applied to the element
 * and returns a map where each group key is associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the
 * original array.
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V> UIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original array
 * by the key returned by the given [keySelector] function applied to the element
 * and returns a map where each group key is associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys
 * produced from the original array.
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V> ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of
 * the original array
 * by the key returned by the given [keySelector] function applied to the element
 * and returns
 * a map where each group key is associated with a list of corresponding values.
 * The returned map preserves
 * the entry iteration order of the keys produced from the original array.
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V> UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * Groups values returned by the [valueTransform] function applied to each element
 * of the original array
 * by the key returned by the given [keySelector] function applied to the element
 * and
 * returns a map where each group key is associated with a list of corresponding values.
 * The returned map
 * preserves the entry iteration order of the keys produced from the original array.
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V> UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and puts to

```

the [destination] map each group key associated with a list of corresponding elements.\n \* \n \* @return The [destination] map.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \* \n \* @SinceKotlin("1.3")\n \* @ExperimentalUnsignedTypes\n \* @kotlin.internal.InlineOnly\n \* public inline fun <K, M : MutableMap<in K, MutableList<UInt>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K): M {\n \* for (element in this) {\n \* val key = keySelector(element)\n \* val list = destination.getOrPut(key) { ArrayList<UInt>() }\n \* list.add(element)\n \* }\n \* return destination\n \* }\n \* \n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n \* \n \* @return The [destination] map.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \* \n \* @SinceKotlin("1.3")\n \* @ExperimentalUnsignedTypes\n \* @kotlin.internal.InlineOnly\n \* public inline fun <K, M : MutableMap<in K, MutableList<ULong>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K): M {\n \* for (element in this) {\n \* val key = keySelector(element)\n \* val list = destination.getOrPut(key) { ArrayList<ULong>() }\n \* list.add(element)\n \* }\n \* return destination\n \* }\n \* \n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n \* \n \* @return The [destination] map.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \* \n \* @SinceKotlin("1.3")\n \* @ExperimentalUnsignedTypes\n \* @kotlin.internal.InlineOnly\n \* public inline fun <K, M : MutableMap<in K, MutableList<UByte>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K): M {\n \* for (element in this) {\n \* val key = keySelector(element)\n \* val list = destination.getOrPut(key) { ArrayList<UByte>() }\n \* list.add(element)\n \* }\n \* return destination\n \* }\n \* \n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n \* \n \* @return The [destination] map.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \* \n \* @SinceKotlin("1.3")\n \* @ExperimentalUnsignedTypes\n \* @kotlin.internal.InlineOnly\n \* public inline fun <K, M : MutableMap<in K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K): M {\n \* for (element in this) {\n \* val key = keySelector(element)\n \* val list = destination.getOrPut(key) { ArrayList<UShort>() }\n \* list.add(element)\n \* }\n \* return destination\n \* }\n \* \n \* Groups values returned by the [valueTransform] function applied to each element of the original array\n \* by the key returned by the given [keySelector] function applied to the element\n \* and puts to the [destination] map each group key associated with a list of corresponding values.\n \* \n \* @return The [destination] map.\n \* \n \* @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n \* \n \* @SinceKotlin("1.3")\n \* @ExperimentalUnsignedTypes\n \* @kotlin.internal.InlineOnly\n \* public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K, valueTransform: (UInt) -> V): M {\n \* for (element in this) {\n \* val key = keySelector(element)\n \* val list = destination.getOrPut(key) { ArrayList<V>() }\n \* list.add(valueTransform(element))\n \* }\n \* return destination\n \* }\n \* \n \* Groups values returned by the [valueTransform] function applied to each element of the original array\n \* by the key returned by the given [keySelector] function applied to the element\n \* and puts to the [destination] map each group key associated with a list of corresponding values.\n \* \n \* @return The [destination] map.\n \* \n \* @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n \* \n \* @SinceKotlin("1.3")\n \* @ExperimentalUnsignedTypes\n \* @kotlin.internal.InlineOnly\n \* public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K, valueTransform: (ULong) -> V): M {\n \* for (element in this) {\n \* val key = keySelector(element)\n \* val list = destination.getOrPut(key) { ArrayList<V>() }\n \* list.add(valueTransform(element))\n \* }\n \* return destination\n \* }\n \* \n \* Groups values returned by the [valueTransform] function applied to each element of the original array\n \* by the key returned by the given [keySelector] function applied to the element\n \* and puts to the [destination] map each group key associated with a list of corresponding values.\n \* \n \* @return The [destination] map.\n \* \n \* @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n \* \n \* @SinceKotlin("1.3")\n \* @ExperimentalUnsignedTypes\n \* @kotlin.internal.InlineOnly\n \* public

```

inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UByteArray.groupByTo(destination: M, keySelector:
(UByte) -> K, valueTransform: (UByte) -> V): M {\n  for (element in this) {\n    val key =
keySelector(element)\n    val list = destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n  }\n  return destination\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a
list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> UShortArray.groupByTo(destination: M, keySelector:
(UShort) -> K, valueTransform: (UShort) -> V): M {\n  for (element in this) {\n    val key =
keySelector(element)\n    val list = destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n  }\n  return destination\n}\n\n/**\n * Returns a list containing the results of
applying the given [transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.map(transform: (UInt) -> R): List<R> {\n  return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original
array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.map(transform: (UInt) -> R): List<R> {\n  return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing
the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> {\n  return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> {\n  return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> ULongArray.mapIndexed(transform: (index: Int, ULong) -> R): List<R> {\n  return
mapIndexedTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element and its index in the original array.\n * @param [transform] function that takes the index of an element and
the element itself\n * and returns the result of the transform applied to the element.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.mapIndexed(transform: (index: Int, UByte) -> R): List<R> {\n  return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function

```

that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.mapIndexed(transform: (index: Int, UShort) -> R): List<R> {\n    return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.mapIndexedTo(destination: C, transform: (index: Int, UByte) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array and appends the results to the given [destination].\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UIntArray.mapTo(destination: C, transform: (UInt) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array and appends the results to the given [destination].\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.mapTo(destination: C, transform: (ULong) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array and appends the results to the given [destination].\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.mapTo(destination: C, transform: (UByte) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array and appends the results to the given [destination].\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.mapTo(destination: C, transform: (UShort) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps

```

each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UIntArray.withIndex():
Iterable<IndexedValue<UInt>> {
    return IndexingIterable { iterator() }
}

```

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun ULongArray.withIndex(): Iterable<IndexedValue<ULong>> {
    return IndexingIterable { iterator() }
}

```

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UByteArray.withIndex():
Iterable<IndexedValue<UByte>> {
    return IndexingIterable { iterator() }
}

```

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UShortArray.withIndex():
Iterable<IndexedValue<UShort>> {
    return IndexingIterable { iterator() }
}

```

Returns true if all elements match the given [predicate].

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UIntArray.all(predicate: (UInt) -> Boolean): Boolean {
    for (element in this) if (!predicate(element))
        return false
    return true
}

```

Returns true if all elements match the given [predicate].

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun ULongArray.all(predicate: (ULong) -> Boolean): Boolean {
    for (element in this) if (!predicate(element))
        return false
    return true
}

```

Returns true if all elements match the given [predicate].

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UByteArray.all(predicate: (UByte) -> Boolean): Boolean {
    for (element in this) if (!predicate(element))
        return false
    return true
}

```

Returns true if all elements match the given [predicate].

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UShortArray.all(predicate: (UShort) -> Boolean): Boolean {
    for (element in this) if (!predicate(element))
        return false
    return true
}

```

Returns true if array has at least one element.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UIntArray.any(): Boolean {
    return storage.any()
}

```

Returns true if array has at least one element.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun ULongArray.any(): Boolean {
    return storage.any()
}

```

Returns true if array has at least one element.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UByteArray.any(): Boolean {
    return storage.any()
}

```

Returns true if array has at least one element.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UShortArray.any(): Boolean {
    return storage.any()
}

```

Returns true if at least one element matches the given [predicate].

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UIntArray.any(predicate: (UInt) -> Boolean): Boolean {
    for (element in this) if (predicate(element))
        return true
    return false
}

```

Returns true if at least one element matches the given [predicate].

```

* \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.any(predicate: (ULong) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return
true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.any(predicate: (UByte) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return
true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.any(predicate:
(UShort) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return
false\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.count(predicate: (UInt) -> Boolean): Int {\n var count = 0\n for (element in this) if
(predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.count(predicate: (ULong) -> Boolean): Int {\n var count = 0\n for (element in this) if
(predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.count(predicate: (UByte)
-> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return
count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.count(predicate: (UShort) -> Boolean): Int {\n var count = 0\n for (element in this) if
(predicate(element)) ++count\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right to current accumulator value and each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.fold(initial: R, operation: (acc: R, UInt) -> R): R {\n var accumulator = initial\n for (element in this)
accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left
to right to current accumulator value and each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.fold(initial: R, operation: (acc: R, ULong) -> R): R {\n var accumulator = initial\n for (element in
this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right to current accumulator value and each
element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {\n var accumulator = initial\n for
(element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from left to right to current accumulator value and each
element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R> UShortArray.fold(initial: R, operation: (acc: R, UShort) -> R): R {\n var accumulator = initial\n
for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator
value and each element with its index in the original array.\n * @param [operation] function that takes the index of
an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): R {\n var index = 0\n var

```

```

accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates
  value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and
  each element with its index in the original array.\n * @param [operation] function that takes the index of an element,
  current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
  ULongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): R {\n  var index = 0\n  var
  accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
  accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
  right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]
  function that takes the index of an element, current accumulator value\n * and the element itself,
  and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
  UByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): R {\n  var index = 0\n  var
  accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
  accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
  right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]
  function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
  next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
  UShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): R {\n  var index = 0\n  var
  accumulator = initial\n
  for (element in this) accumulator = operation(index++, accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and
  current accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
  UIntArray.foldRight(initial: R, operation: (UInt, acc: R) -> R): R {\n  var index = lastIndex\n  var accumulator =
  initial\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
  accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left
  to each element and current accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
  ULongArray.foldRight(initial: R, operation: (ULong, acc: R) -> R): R {\n  var index = lastIndex\n  var
  accumulator = initial\n
  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
  accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left
  to each element and current accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
  UByteArray.foldRight(initial: R, operation: (UByte, acc: R) -> R): R {\n  var index = lastIndex\n  var
  accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n
  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right
  to left to each element and current accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
  UShortArray.foldRight(initial: R, operation: (UShort, acc: R) -> R): R {\n  var index = lastIndex\n  var
  accumulator
  = initial\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
  accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
  left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation]
  function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the

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next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.foldRightIndexed(initial: R, operation: (index: Int, UInt, acc: R) -> R): R {\n  var index = lastIndex\n
var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n
--index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from right to left\n * to each
element with its index in the original array and current accumulator value.\n * @param [operation] function that
takes the index of an element, the element itself\n * and current accumulator value, and calculates the next
accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.foldRightIndexed(initial: R, operation: (index: Int, ULong, acc: R) -> R): R {\n  var index =
lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index, get(index),
accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]
value and applying [operation] from right to left\n * to each element with its index in the original array and current
accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and
current accumulator value, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.foldRightIndexed(initial: R, operation: (index: Int, UByte, acc: R) -> R): R {\n  var index =
lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index, get(index),
accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]
value and applying [operation] from right to left\n * to each element with its index in the original array and current
accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and
current accumulator value, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.foldRightIndexed(initial: R, operation: (index: Int, UShort, acc: R) -> R): R {\n  var index =
lastIndex\n  var accumulator
= initial\n  while (index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n
}\n  return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.forEach(action: (UInt) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n * Performs
the given [action] on each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.forEach(action: (ULong) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.forEach(action: (UByte) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.forEach(action: (UShort) -> Unit): Unit {\n  for (element in this)
action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the
element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the
desired action on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.forEachIndexed(action: (index: Int, UInt) -> Unit): Unit {\n  var index = 0\n  for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the desired action on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline

```

```

fun ULongArray.forEachIndexed(action: (index: Int, ULong) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

/** Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the desired action on the element.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UByteArray.forEachIndexed(action: (index: Int, UByte) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

/** Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the desired action on the element.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UShortArray.forEachIndexed(action: (index: Int, UShort) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

/** Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UIntArray.max(): UInt? {
    if (isEmpty())
        return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/** Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun ULongArray.max(): ULong? {
    if (isEmpty())
        return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/** Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UByteArray.max(): UByte? {
    if (isEmpty())
        return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/** Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UShortArray.max(): UShort? {
    if (isEmpty())
        return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/** Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 * @sample samples.collections.Collections.Aggregates.maxBy
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt? {
    if (isEmpty())
        return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0)
        return maxElem
    var maxElem = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxElem < v)
            maxElem = e
    }
    return maxElem
}

/** Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 * @sample samples.collections.Collections.Aggregates.maxBy
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> ULongArray.maxBy(selector: (ULong) -> R): ULong? {
    if (isEmpty())
        return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0)
        return maxElem
    var maxElem = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxElem < v)
            maxElem = e
    }
    return maxElem
}

/** Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 * @sample samples.collections.Collections.Aggregates.maxBy
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UByteArray.maxBy(selector: (UByte) -> R): UByte? {
    if (isEmpty())
        return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0)
        return maxElem
    var maxElem = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxElem < v)
            maxElem = e
    }
    return maxElem
}

/** Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 * @sample samples.collections.Collections.Aggregates.maxBy
 */

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element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.maxBy(selector:
(UShort) -> R): UShort? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex =
this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in
1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n
maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element having the largest value
according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.maxWith(comparator:
Comparator<in UInt>): UInt? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the
first element having the largest value according to the provided [comparator] or `null` if
there are no elements.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.maxWith(comparator: Comparator<in ULong>): ULong? {\n if (isEmpty()) return null\n var max =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n
return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator]
or `null` if there are no elements.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.maxWith(comparator: Comparator<in UByte>): UByte? {\n if (isEmpty()) return null\n var max =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n
return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator]
or `null` if there are no elements.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UShortArray.maxWith(comparator: Comparator<in UShort>): UShort? {\n if (isEmpty()) return null\n var
max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n
}\n return max\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.min(): UInt? {\n if (isEmpty())
return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n
return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.min(): ULong? {\n if
(isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min =
e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are
no elements.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.min(): UByte?
{\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min >
e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.min(): UShort? {\n if
(isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min =
e\n }\n return min\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.\n
*\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.minBy(selector: (UInt) -> R): UInt? {\n if (isEmpty()) return
null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var
minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if
(minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n
*\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.minBy(selector: (ULong) -> R): ULong? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =

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selector(minElem)\n for (i in 1..lastIndex) {\n     val e = this[i]\n     val v = selector(e)\n     if (minValue > v) {\n         minElem = e\n         minValue = v\n     }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.minBy(selector: (UByte) -> R): UByte? {\n    if (isEmpty()) return null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.minBy(selector: (UShort) -> R): UShort? {\n    if (isEmpty()) return null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minWith(comparator: Comparator<in UInt>): UInt? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minWith(comparator: Comparator<in ULong>): ULong? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minWith(comparator: Comparator<in UByte>): UByte? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minWith(comparator: Comparator<in UShort>): UShort? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
```

```

UIntArray.none(predicate: (UInt) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

Returns `true` if no elements match the given [predicate].

@sample samples.collections.Collections.Aggregates.noneWithPredicate

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
ULongArray.none(predicate: (ULong) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

Returns `true` if no elements match the given [predicate].

@sample samples.collections.Collections.Aggregates.noneWithPredicate

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UByteArray.none(predicate: (UByte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

Returns `true` if no elements match the given [predicate].

@sample samples.collections.Collections.Aggregates.noneWithPredicate

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UShortArray.none(predicate:
    (UShort) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.

@sample samples.collections.Collections.Aggregates.reduce

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UIntArray.reduce(operation: (acc: UInt, UInt) -> UInt): UInt {
    if (isEmpty()) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.

@sample samples.collections.Collections.Aggregates.reduce

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
inline fun ULongArray.reduce(operation: (acc: ULong, ULong) -> ULong): ULong {
    if (isEmpty()) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.

@sample samples.collections.Collections.Aggregates.reduce

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UByteArray.reduce(operation: (acc: UByte, UByte) -> UByte): UByte {
    if (isEmpty()) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator,
            this[index])
    }
    return accumulator
}

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.

@sample samples.collections.Collections.Aggregates.reduce

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UShortArray.reduce(operation: (acc: UShort, UShort) -> UShort): UShort {
    if (isEmpty()) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

@param [operation] function that takes the index of an element, current accumulator value

* and the element itself and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduce

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UIntArray.reduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt {
    if (isEmpty()) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in

```

```

1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n } \n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong {\n    if (isEmpty())\n    throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = this[0]\n    for
(index in 1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte {\n    if (isEmpty())\n    throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = this[0]\n    for
(index in 1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort): UShort {\n    if (isEmpty())\n    throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = this[0]\n    for
(index in 1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right to current accumulator value and each element. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UIntArray.reduceOrNull(operation: (acc: UInt, UInt) -> UInt): UInt? {\n    if (isEmpty())\n    return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator =
operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the
first element and applying [operation] from left to right
to current accumulator value and each element. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun ULongArray.reduceOrNull(operation: (acc: ULong, ULong) -> ULong): ULong? {\n    if
(isEmpty())\n    return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator =
operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the
first element and applying [operation] from left to right to current accumulator value and each element. Returns null
if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UByteArray.reduceOrNull(operation: (acc: UByte,
UByte) -> UByte): UByte? {\n    if (isEmpty())\n    return null\n    var accumulator = this[0]\n    for (index in
1..lastIndex) {\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator
value and each element. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n

```



```

var accumulator = get(index--)\n while (index >= 0) {\n     accumulator = operation(index, get(index),
accumulator)\n     --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element
and applying [operation] from right to left\n * to each element with its index in the original array and current
accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and
current accumulator value, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceRightIndexed(operation: (index: Int, UByte, acc:
UByte) -> UByte): UByte {\n    var index = lastIndex\n    if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while
(index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n
* to each element with its index in the original array and current accumulator value.\n * @param [operation]
function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceRightIndexed(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort {\n    var index =
lastIndex\n    if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while
(index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UIntArray.reduceRightOrNull(operation: (UInt, acc: UInt) -> UInt): UInt? {\n    var index =
lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n
accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value
starting with last element and applying [operation]
from right to left to each element and current accumulator value. Returns null if the array is empty.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun ULongArray.reduceRightOrNull(operation: (ULong, acc: ULong) -> ULong): ULong? {\n    var
index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n
accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value
starting with last element and applying [operation] from right to left to each element and current accumulator value.
Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UByteArray.reduceRightOrNull(operation:
(UByte, acc: UByte) -> UByte): UByte? {\n    var index = lastIndex\n    if (index < 0) return null\n    var
accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n
    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from
right to left to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UShortArray.reduceRightOrNull(operation: (UShort, acc: UShort) -> UShort): UShort? {\n
var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n
accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Returns a

```

list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.scan(initial: R, operation: (acc: R, UInt) -> R): List<R> {\n    if (isEmpty())\n        return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n
```

\n \*/\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.scan(initial: R, operation: (acc: R, ULong) -> R): List<R> {\n    if (isEmpty())\n        return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n
```

\n \*/\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.scan(initial: R, operation: (acc: R, UByte) -> R): List<R> {\n    if (isEmpty())\n        return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n
```

\n \*/\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scan(initial: R, operation: (acc: R, UShort) -> R): List<R> {\n    if (isEmpty())\n        return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n
```

\n \*/\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element, its index in the original array and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R>

```

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{\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var
accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }}\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic
inline fun <R> ULongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {\n if
(isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator =
initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }}\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n
* \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun <R> UByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R>
{\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var
accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }}\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun <R> UShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): List<R>
{\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var
accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }}\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UIntArray.scanReduce(operation: (acc: UInt, UInt) -> UInt): List<UInt> {\n if (isEmpty())
return emptyList()\n var accumulator = this[0]\n val result = ArrayList<UInt>(size).apply { add(accumulator)
}\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n
result.add(accumulator)\n }}\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the

```

first element of this array.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scanReduce\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.scanReduce(operation: (acc: ULong, ULong) -> ULong): List<ULong> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<ULong>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to
```

right\n \* to each element and current accumulator value that starts with the first element of this array.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scanReduce\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.scanReduce(operation: (acc: UByte, UByte) -> UByte): List<UByte> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<UByte>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing
```

successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with the first element of this array.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scanReduce\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.scanReduce(operation: (acc: UShort, UShort) -> UShort): List<UShort> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<UShort>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
```

[operation] from left to right\n \* to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scanReduce\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.scanReduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): List<UInt> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<UInt>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce\n
```

array.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scanReduce\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly
```

```

y\npublic inline fun ULongArray.scanReduceIndexed(operation:
(index: Int, acc: ULong, ULong) -> ULong): List<ULong> {\n  if (isEmpty()) return emptyList()\n  var
accumulator = this[0]\n  val result = ArrayList<ULong>(size).apply { add(accumulator) }\n  for (index in 1 until
size) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n  }\n
return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be
mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UByteArray.scanReduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte):
List<UByte> {\n  if (isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result =
ArrayList<UByte>(size).apply { add(accumulator) }\n  for (index in 1 until size) {\n    accumulator =
operation(index, accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element, its index in the original array and current accumulator value that starts with the first element of this
array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function
that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UShortArray.scanReduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort):
List<UShort> {\n  if (isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result =
ArrayList<UShort>(size).apply { add(accumulator) }\n  for (index in 1 until size) {\n    accumulator =
operation(index, accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n *
Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.sumBy(selector: (UInt) -> UInt):
UInt {\n  var sum: UInt = 0u\n  for (element in this) {\n    sum += selector(element)\n  }\n  return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n * \n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.sumBy(selector: (ULong) -> UInt): UInt {\n  var sum: UInt = 0u\n  for (element in this) {\n    sum
+= selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.sumBy(selector: (UByte) -> UInt): UInt {\n  var sum: UInt = 0u\n  for (element in this) {\n    sum
+= selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.sumBy(selector: (UShort) -> UInt): UInt {\n  var sum: UInt = 0u\n  for (element in this)
{\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.sumByDouble(selector: (UInt) -> Double): Double {\n  var sum: Double = 0.0\n  for (element in this)
{\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```

```

ULongArray.sumByDouble(selector: (ULong) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

```

Returns the sum of all values produced by [selector] function applied to each element in the array.

```

*\/@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.sumByDouble(selector: (UByte) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

```

Returns the sum of all values produced by [selector] function applied to each element in the array.

```

*\/@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.sumByDouble(selector: (UShort) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

```

Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 The returned list has length of the shortest collection.

```

*\/@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Array<out
R>): List<Pair<UInt, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

```

Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 The returned list has length of the shortest collection.

```

*\/@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other:
Array<out R>): List<Pair<ULong, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

```

Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 The returned list has length of the shortest collection.

```

*\/@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic
infix fun <R> UByteArray.zip(other: Array<out R>): List<Pair<UByte, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

```

Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 The returned list has length of the shortest collection.

```

*\/@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other:
Array<out R>): List<Pair<UShort, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

```

Returns a list of values built from the elements of `this` array and the [other] array with the same index
 using the provided [transform] function applied to each pair of elements.
 The returned list has length of the shortest collection.

```

*\/@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic
inline fun <R, V> UIntArray.zip(other: Array<out R>, transform: (a: UInt, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

Returns a list of values built from the elements of `this` array and the [other] array with the same index
 using the provided [transform] function applied to each pair of elements.
 The returned list has length of the shortest collection.

```

*\/@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R, V>
ULongArray.zip(other: Array<out R>, transform: (a: ULong, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

Returns a list of values built from the elements of `this` array and the [other] array with the same index
 using the provided [transform] function applied to each pair of elements.
 The returned list has length of the shortest collection.

```

*\/@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UByteArray.zip(other: Array<out R>, transform: (a: UByte, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

```

}\n  return list}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UShortArray.zip(other: Array<out R>, transform: (a: UShort, b: R) -> V): List<V> {\n  val size = minOf(size,
other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n
}\n  return list}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with
the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other:
Iterable<R>): List<Pair<UInt, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` collection and [other] array with the same index.\n * The returned
list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other:
Iterable<R>): List<Pair<ULong, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other:
Iterable<R>): List<Pair<UByte, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
infix fun <R> UShortArray.zip(other: Iterable<R>): List<Pair<UShort, R>> {\n  return zip(other) { t1, t2 -> t1 to
t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the
same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has
length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UIntArray.zip(other: Iterable<R>, transform: (a: UInt, b: R) -> V): List<V> {\n  val arraySize = size\n  val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n
if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list}\n\n/**\n * Returns a
list
of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
ULongArray.zip(other: Iterable<R>, transform: (a: ULong, b: R) -> V): List<V> {\n  val arraySize = size\n  val
list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other)
{\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n *
using the provided [transform] function applied to each pair of elements.\n * The returned list has
length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UByteArray.zip(other: Iterable<R>, transform: (a: UByte, b: R) -> V): List<V> {\n  val arraySize = size\n  val list
= ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n
if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list}\n\n/**\n * Returns a

```

```

list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R, V> UShortArray.zip(other: Iterable<R>, transform: (a: UShort, b: R) -> V): List<V> {\n    val
arraySize = size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n
for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return
list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.zip(other: UIntArray):
List<Pair<UInt, UInt>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.zip(other: ULongArray):
List<Pair<ULong, ULong>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.zip(other: UByteArray):
List<Pair<UByte, UByte>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.zip(other:
UShortArray): List<Pair<UShort, UShort>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list
of values built from the elements of `this` array and the [other] array with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n *
@sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UIntArray.zip(other: UIntArray, transform: (a: UInt, b: UInt) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of
elements.\n * The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
ULongArray.zip(other: ULongArray, transform: (a: ULong, b: ULong) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UByteArray.zip(other: UByteArray, transform:
(a: UByte, b: UByte) -> V): List<V> {\n    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n
for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of
values built from the elements of `this` array and the [other] array with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n *

```

```

@sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UShortArray.zip(other: UShortArray, transform: (a: UShort, b: UShort) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun Array<out UInt>.sum(): UInt {\n    var sum: UInt = 0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Array<out ULong>.sum(): ULong {\n    var sum: ULong = 0UL\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfUByte")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Array<out UByte>.sum(): UInt {\n    var sum: UInt = 0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfUShort")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Array<out
UShort>.sum(): UInt {\n    var sum: UInt = 0\n    for (element in this) {\n        sum += element\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.sum(): UInt {\n    return storage.sum().toUInt()\n}\n\n/**\n * Returns the sum of all elements in the
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.sum(): ULong {\n    return storage.sum().toULong()\n}\n\n/**\n * Returns the sum of all elements in
the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UByteArray.sum(): UInt {\n    return sumBy { it.toUInt() }\n}\n\n/**\n * Returns the sum of all elements in the
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.sum(): UInt {\n    return sumBy
{ it.toUInt() }\n}\n\n"/**\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("UCollectionsKt")\n\npackage
kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an array of UByte containing all of the
elements of this collection.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Collection<UByte>.toUByteArray(): UByteArray {\n    val result = UByteArray(size)\n    var index = 0\n    for
(element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of UInt containing
all of the elements
of this collection.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Collection<UInt>.toUIntArray(): UIntArray {\n    val result = UIntArray(size)\n    var index = 0\n    for (element in
this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of ULong containing all of the
elements of this collection.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Collection<ULong>.toULongArray(): ULongArray {\n    val result = ULongArray(size)\n    var index = 0\n    for
(element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of UShort
containing all of the elements of this collection.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Collection<UShort>.toUShortArray():
UShortArray {\n    val result = UShortArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] =
element\n    return result\n}\n\n/**\n * Returns the sum of all elements

```

in the collection.\n

```
*\n@kotlin.jvm.JvmName("\sumOfUInt")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun  
Iterable<UInt>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n*\n@kotlin.jvm.JvmName("\sumOfULong")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun  
Iterable<ULong>.sum(): ULong {\n    var sum: ULong = 0uL\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n*\n@kotlin.jvm.JvmName("\sumOfUByte")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun  
Iterable<UByte>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n*\n@kotlin.jvm.JvmName("\sumOfUShort")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic  
fun Iterable<UShort>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n"/**\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n*\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("UComparisonsKt")\n\npackage  
kotlin.comparisons\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:  
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns the  
greater of two values.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UInt, b:  
UInt): UInt {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: ULong, b: ULong): ULong  
{\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UByte, b: UByte): UByte {\n  
return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UShort, b: UShort): UShort {\n  
return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
maxOf(a: UInt, b: UInt, c: UInt): UInt {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three  
values.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline  
fun maxOf(a: ULong, b: ULong, c: ULong): ULong {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the  
greater of three values.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic  
inline fun maxOf(a: UByte, b: UByte, c: UByte): UByte {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns  
the greater of three values.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
maxOf(a: UShort, b: UShort, c: UShort): UShort {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the  
smaller of two values.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UInt, b:  
UInt): UInt {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: ULong, b: ULong): ULong {\n  
return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UByte, b: UByte): UByte {\n  
return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic  
fun minOf(a: UShort, b: UShort): UShort {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of three  
values.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline  
fun minOf(a: UInt, b: UInt, c: UInt): UInt {\n    return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of  
three values.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic  
inline fun minOf(a: ULong, b: ULong, c: ULong): ULong {\n    return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns  
the smaller of three values.\n */
```

```

*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
minOf(a: UByte, b: UByte, c: UByte): UByte {n  return minOf(a, minOf(b, c))n}n/n/**n * Returns the smaller
of three values.n *\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic
inline fun minOf(a: UShort, b: UShort, c: UShort): UShort {n  return minOf(a,
minOf(b, c))n}n/n"/**n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.n
*\/n@file:kotlin.jvm.JvmMultifileClassn@file:kotlin.jvm.JvmName("URangesKt")n/npackage
kotlin.rangesn/n/n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt/n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib/n/nimport kotlin.random.*n/n/**n * Returns a
random element from this range.n * n * @throws IllegalArgumentException if this range is empty.n
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UIntRange.random(): UInt {n  return random(Random)n}n/n/**n * Returns a random element from this range.n
* n * @throws IllegalArgumentException if this range is empty.n
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic
inline fun ULongRange.random(): ULong {n  return random(Random)n}n/n/**n * Returns a random element
from this range using the specified source of randomness.n * n * @throws IllegalArgumentException if this range
is empty.n *\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesnpublic fun UIntRange.random(random:
Random): UInt {n  try {n  return random.nextUInt(this)n  } catch(e: IllegalArgumentException) {n
throw NoSuchElementException(e.message)n  }n}n/n/**n * Returns a random element from this range using
the specified source of randomness.n * n * @throws IllegalArgumentException if this range is empty.n
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesnpublic fun ULongRange.random(random: Random):
ULong {n  try {n  return random.nextULong(this)n  } catch(e: IllegalArgumentException) {n  throw
NoSuchElementException(e.message)n  }n}n/n/**n * Returns a random element from this range, or `null` if this
range is empty.n
*\/n@SinceKotlin("1.3")n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnl
ynpublic inline fun UIntRange.randomOrNull(): UInt? {n  return randomOrNull(Random)n}n/n/**n * Returns
a random element from this range, or `null` if this range is empty.n
*\/n@SinceKotlin("1.3")n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnl
ynpublic inline fun ULongRange.randomOrNull(): ULong? {n  return randomOrNull(Random)n}n/n/**n *
Returns a random element from this range using the specified source of randomness, or `null` if this range is
empty.n *\/n@SinceKotlin("1.3")n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypesnpublic fun
UIntRange.randomOrNull(random: Random): UInt? {n  if (isEmpty())n  return nulln  return
random.nextUInt(this)n}n/n/**n * Returns a random element from this range using the specified source of
randomness, or `null` if this range is empty.n
*\/n@SinceKotlin("1.3")n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypesnpublic
fun ULongRange.randomOrNull(random: Random): ULong? {n  if (isEmpty())n  return nulln  return
random.nextULong(this)n}n/n/**n * Returns `true` if this range contains the specified [element].n * n * Always
returns `false` if the [element] is `null`.n
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline operator fun
UIntRange.contains(element: UInt?): Boolean {n  return element != null && contains(element)n}n/n/**n *
Returns `true` if this range contains the specified [element].n * n * Always returns `false` if the [element] is
`null`.n *\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline
operator fun ULongRange.contains(element: ULong?): Boolean {n  return element != null &&
contains(element)n}n/n/**n * Checks if the specified [value] belongs to this range.n
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesnpublic
operator fun UIntRange.contains(value: UByte): Boolean {n  return contains(value.toUInt())n}n/n/**n *
Checks if the specified [value] belongs to this range.n

```

```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public operator fun ULongRange.contains(value:
UByte): Boolean {^n return contains(value.toULong())^}^n/^n/**^n * Checks if the specified [value] belongs to
this range.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public operator fun
ULongRange.contains(value: UInt): Boolean {^n return contains(value.toULong())^}^n/^n/**^n * Checks if the
specified [value] belongs to this range.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public
operator fun UIntRange.contains(value: ULong): Boolean {^n return (value shr UInt.SIZE_BITS) == 0uL &&
contains(value.toUInt())^}^n/^n/**^n * Checks if the specified [value] belongs to this range.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public operator fun
UShortRange.contains(value: UShort): Boolean {^n return contains(value.toUInt())^}^n/^n/**^n * Checks if the specified [value] belongs to this
range.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public operator fun
ULongRange.contains(value: UShort): Boolean {^n return contains(value.toULong())^}^n/^n/**^n * Returns a
progression from this value down to the specified [to] value with the step -1.^n * ^n * The [to] value should be less
than or equal to `this` value.^n * If the [to] value is greater than `this` value the returned progression is empty.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public infix fun UByte.downTo(to: UByte):
UIntProgression {^n return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)^}^n/^n/**^n * Returns
a progression from this value down to the specified [to] value with the step -1.^n * ^n * The [to] value should be less
than or equal to `this` value.^n * If the [to] value is greater than `this` value the returned progression is empty.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public infix fun UInt.downTo(to: UInt):
UIntProgression {^n return UIntProgression.fromClosedRange(this, to, -1)^}^n/^n/**^n * Returns a progression
from this value down to the specified [to] value with the step -1.^n * ^n * The [to] value should be less than or equal
to `this` value.^n * If the [to] value is greater than `this` value the returned progression is empty.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public infix fun ULong.downTo(to: ULong):
ULongProgression {^n return ULongProgression.fromClosedRange(this, to, -1L)^}^n/^n/**^n * Returns a
progression from this value down to the specified [to] value with the step -1.^n * ^n * The [to] value should be less
than or equal to `this` value.^n * If the [to] value is greater than `this` value the returned progression is empty.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public infix fun UShort.downTo(to: UShort):
UIntProgression {^n return
    UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)^}^n/^n/**^n * Returns a progression that goes over
the same range in the opposite direction with the same step.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UIntProgression.reversed():
UIntProgression {^n return UIntProgression.fromClosedRange(last, first, -step)^}^n/^n/**^n * Returns a
progression that goes over the same range in the opposite direction with the same step.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun ULongProgression.reversed():
ULongProgression {^n return ULongProgression.fromClosedRange(last, first, -step)^}^n/^n/**^n * Returns a
progression that goes over the same range with the given step.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public infix fun UIntProgression.step(step: Int):
UIntProgression {^n checkStepIsPositive(step > 0, step)^n return UIntProgression.fromClosedRange(first, last, if
(this.step > 0) step else -step)^}^n/^n/**^n
    * Returns a progression that goes over the same range with the given step.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public infix fun ULongProgression.step(step: Long):
ULongProgression {^n checkStepIsPositive(step > 0, step)^n return ULongProgression.fromClosedRange(first,
last, if (this.step > 0) step else -step)^}^n/^n/**^n * Returns a range from this value up to but excluding the specified
[to] value.^n * ^n * If the [to] value is less than or equal to `this` value, then the returned range is empty.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public infix fun UByte.until(to: UByte): UIntRange
{^n if (to <= UByte.MIN_VALUE) return UIntRange.EMPTY^n return this.toUInt() .. (to -
1u).toUInt())^}^n/^n/**^n * Returns a range from this value up to but excluding the specified [to] value.^n * ^n * If the
[to] value is less than or equal to `this` value, then the returned range is empty.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public

```

```

infix fun UInt.until(to: UInt): UIntRange {
    if (to <= UInt.MIN_VALUE) return UIntRange.EMPTY
    return this .. (to - 1u).toUInt()
}

/**
 * Returns a range from this value up to but excluding the specified [to] value.
 * If the [to] value is less than or equal to `this` value, then the returned range is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun ULong.until(to: ULong): ULongRange {
    if (to <= ULong.MIN_VALUE) return ULongRange.EMPTY
    return this .. (to - 1u).toULong()
}

/**
 * Returns a range from this value up to but excluding the specified [to] value.
 * If the [to] value is less than or equal to `this` value, then the returned range is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun UShort.until(to: UShort): UIntRange {
    if (to <= UShort.MIN_VALUE) return UIntRange.EMPTY
    return this.toUInt() .. (to - 1u).toUInt()
}

/**
 * Ensures that this value is not less than the specified [minimumValue].
 * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UInt.coerceAtLeast(minimumValue: UInt): UInt {
    return if (this < minimumValue) minimumValue else this
}

/**
 * Ensures that this value is not less than the specified [minimumValue].
 * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULong.coerceAtLeast(minimumValue: ULong): ULong {
    return if (this < minimumValue) minimumValue else this
}

/**
 * Ensures that this value is not less than the specified [minimumValue].
 * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByte.coerceAtLeast(minimumValue: UByte): UByte {
    return if (this < minimumValue) minimumValue else this
}

/**
 * Ensures that this value is not less than the specified [minimumValue].
 * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShort.coerceAtLeast(minimumValue: UShort): UShort {
    return if (this < minimumValue) minimumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UInt.coerceAtMost(maximumValue: UInt): UInt {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULong.coerceAtMost(maximumValue: ULong): ULong {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByte.coerceAtMost(maximumValue: UByte): UByte {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned
 */

```

```

samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceAtMost(maximumValue:
UShort): UShort {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this
value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range,
or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than
[maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceIn(minimumValue: UInt,
maximumValue: UInt):
UInt {\n    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an
empty range: maximum $maximumValue is less than minimum $minimumValue.")\n    if (this < minimumValue)
return minimumValue\n    if (this > maximumValue) return maximumValue\n    return this\n}\n\n/**\n * Ensures
that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in
the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater
than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceIn(minimumValue: ULong,
maximumValue: ULong): ULong {\n    if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n    if (this < minimumValue) return minimumValue\n    if (this
> maximumValue) return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified
range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this
value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n *
@sample samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByte.coerceIn(minimumValue: UByte,
maximumValue: UByte): UByte {\n    if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceIn(minimumValue: UShort,
maximumValue: UShort): UShort {\n    if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceIn(range:
ClosedRange<UInt>): UInt {\n    if (range is ClosedFloatingPointRange) {\n        return
this.coerceIn<UInt>(range)\n    }\n    if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to
an empty range: $range.")\n    return when {\n        this < range.start -> range.start\n        this > range.endInclusive -
> range.endInclusive\n        else -> this\n    }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or
`range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceIn(range:
ClosedRange<ULong>): ULong {\n    if (range is ClosedFloatingPointRange) {\n        return

```

```

this.coerceIn<ULong>(range)\n } \n if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value
to an empty range: $range.\")\n return when {\n this < range.start -> range.start\n this >
range.endInclusive -> range.endInclusive\n else -> this\n }\n}\n\n", /*\n * Copyright 2010-2019 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("USequencesKt")\n\npackage
kotlin.sequences\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport kotlin.random.*\n\n/**\n * Returns the
sum of all elements in the sequence.\n * \n * The operation is _terminal_.\n
*\n\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Sequence<UInt>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += element\n }\n
return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n * \n * The operation is _terminal_.\n
*\n\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Sequence<ULong>.sum(): ULong {\n var sum: ULong = 0uL\n for (element in this) {\n sum += element\n
}\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n * \n * The operation is
_terminal_.\n
*\n\n@kotlin.jvm.JvmName("sumOfUByte")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Sequence<UByte>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += element\n }\n
return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n * \n * The operation is _terminal_.\n
*\n\n@kotlin.jvm.JvmName("sumOfUShort")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Sequence<UShort>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += element\n
}\n return sum\n}\n\n", /*\n * Copyright 2010-2015 JetBrains s.r.o.\n * \n * Licensed under the Apache License,
Version 2.0 (the "License");\n * you may not use this file except in compliance with the License.\n * You may
obtain a copy of the License at\n * \n * http://www.apache.org/licenses/LICENSE-2.0\n * \n * Unless required by
applicable law or agreed to in writing, software\n * distributed under the License is distributed on an "AS IS"
BASIS,\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n * See the
License for the specific language governing permissions and\n * limitations under the License.\n *\n\npackage
kotlin.collections\n\nimport kotlin.internal.PlatformDependent\n\n/**\n * Classes that inherit from this interface can
be represented as a sequence of elements that can\n * be iterated over.\n * @param T the type of element being
iterated over. The iterator is covariant on its element type.\n *\n\npublic interface Iterable<out T> {\n
/**\n * Returns an iterator over the elements of this object.\n * \n *\n public operator fun iterator():
Iterator<T>\n}\n\n/**\n * Classes that inherit from this interface can be represented as a sequence of elements that
can\n * be iterated over and that supports removing elements during iteration.\n * @param T the type of element
being iterated over. The mutable iterator is invariant on its element type.\n *\n\npublic interface MutableIterable<out
T> : Iterable<T> {\n /**\n * Returns an iterator over the elements of this sequence that supports removing
elements during iteration.\n * \n *\n override fun iterator(): MutableIterator<T>\n}\n\n/**\n * A generic collection
of elements. Methods in this interface support only read-only access to the collection;\n * read/write access is
supported through the [MutableCollection] interface.\n * @param E the type of elements contained in the collection.
The collection is covariant on its element type.\n *\n\npublic interface Collection<out
E> : Iterable<E> {\n // Query Operations\n /**\n * Returns the size of the collection.\n * \n *\n public val
size: Int\n\n /**\n * Returns `true` if the collection is empty (contains no elements), `false` otherwise.\n * \n
*\n public fun isEmpty(): Boolean\n\n /**\n * Checks if the specified element is contained in this collection.\n
*\n *\n public operator fun contains(element: @UnsafeVariance E): Boolean\n\n override fun iterator():
Iterator<E>\n}\n\n // Bulk Operations\n /**\n * Checks if all elements in the specified collection are contained in
this collection.\n * \n *\n public fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n}\n\n/**\n * A
generic collection of elements that supports adding and removing elements.\n * \n * @param E the type of
elements contained in the collection. The mutable collection is invariant on its element type.\n *\n\npublic interface
MutableCollection<E> : Collection<E>, MutableIterable<E>

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{\n // Query Operations\n override fun iterator(): MutableIterator<E>\n\n // Modification Operations\n /**\n * Adds the specified element to the collection.\n *\n * @return `true` if the element has been added, `false` if
the collection does not support duplicates\n * and the element is already contained in the collection.\n */\n
public fun add(element: E): Boolean\n\n /**\n * Removes a single instance of the specified element from this\n * collection, if it is present.\n *\n * @return `true` if the element has been successfully removed; `false` if it
was not present in the collection.\n */\n public fun remove(element: E): Boolean\n\n // Bulk Modification
Operations\n /**\n * Adds all of the elements of the specified collection to this collection.\n *\n * @return
`true` if any of the specified elements was added to the collection, `false` if the collection was not modified.\n */\n
public fun
addAll(elements: Collection<E>): Boolean\n\n /**\n * Removes all of this collection's elements that are also
contained in the specified collection.\n *\n * @return `true` if any of the specified elements was removed from
the collection, `false` if the collection was not modified.\n */\n public fun removeAll(elements: Collection<E>):
Boolean\n\n /**\n * Retains only the elements in this collection that are contained in the specified collection.\n
*\n * @return `true` if any element was removed from the collection, `false` if the collection was not modified.\n
*/\n public fun retainAll(elements: Collection<E>): Boolean\n\n /**\n * Removes all elements from this
collection.\n */\n public fun clear(): Unit\n}\n\n/**\n * A generic ordered collection of elements. Methods in
this interface support only read-only access to the list;\n * read/write access is supported through the [MutableList]
interface.\n * @param E the type of elements
contained in the list. The list is covariant on its element type.\n */\npublic interface List<out E> : Collection<E> {\n
// Query Operations\n\n override val size: Int\n override fun isEmpty(): Boolean\n override fun
contains(element: @UnsafeVariance E): Boolean\n override fun iterator(): Iterator<E>\n\n // Bulk Operations\n
override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n\n // Positional Access
Operations\n /**\n * Returns the element at the specified index in the list.\n */\n public operator fun
get(index: Int): E\n\n // Search Operations\n /**\n * Returns the index of the first occurrence of the specified
element in the list, or -1 if the specified\n * element is not contained in the list.\n */\n public fun
indexOf(element: @UnsafeVariance E): Int\n\n /**\n * Returns the index of the last occurrence of the specified
element in the list, or -1 if the specified\n * element is not contained
in the list.\n */\n public fun lastIndexOf(element: @UnsafeVariance E): Int\n\n // List Iterators\n /**\n *
Returns a list iterator over the elements in this list (in proper sequence).\n */\n public fun listIterator():
ListIterator<E>\n\n /**\n * Returns a list iterator over the elements in this list (in proper sequence), starting at
the specified [index].\n */\n public fun listIterator(index: Int): ListIterator<E>\n\n // View\n /**\n *
Returns a view of the portion of this list between the specified [fromIndex] (inclusive) and [toIndex] (exclusive).\n
*\n * The returned list is backed by this list, so non-structural changes in the returned list are reflected in this list, and
vice-versa.\n *\n * Structural changes in the base list make the behavior of the view undefined.\n */\n
public fun subList(fromIndex: Int, toIndex: Int): List<E>\n}\n\n/**\n * A generic ordered collection of elements that
supports adding and removing
elements.\n * @param E the type of elements contained in the list. The mutable list is invariant on its element
type.\n */\npublic interface MutableList<E> : List<E>, MutableCollection<E> {\n // Modification Operations\n
/**\n * Adds the specified element to the end of this list.\n *\n * @return `true` because the list is always
modified as the result of this operation.\n */\n override fun add(element: E): Boolean\n\n override fun
remove(element: E): Boolean\n\n // Bulk Modification Operations\n /**\n * Adds all of the elements of the
specified collection to the end of this list.\n *\n * The elements are appended in the order they appear in the
[elements] collection.\n *\n * @return `true` if the list was changed as the result of the operation.\n */\n
override fun addAll(elements: Collection<E>): Boolean\n\n /**\n * Inserts all of the elements of the specified
collection [elements] into this list at the specified
[index].\n *\n * @return `true` if the list was changed as the result of the operation.\n */\n public fun
addAll(index: Int, elements: Collection<E>): Boolean\n\n override fun removeAll(elements: Collection<E>):
Boolean\n\n override fun retainAll(elements: Collection<E>): Boolean\n\n override fun clear(): Unit\n\n //

```

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Positional Access Operations\n /**\n * Replaces the element at the specified position in this list with the
specified element.\n *\n * @return the element previously at the specified position.\n */\n public operator
fun set(index: Int, element: E): E\n /**\n * Inserts an element into the list at the specified [index].\n */\n
public fun add(index: Int, element: E): Unit\n\n /**\n * Removes an element at the specified [index] from the
list.\n *\n * @return the element that has been removed.\n */\n public fun removeAt(index: Int): E\n\n //
List Iterators\n override fun listIterator(): MutableListIterator<E>\n\n
override fun listIterator(index: Int): MutableListIterator<E>\n\n // View\n override fun subList(fromIndex:
Int, toIndex: Int): MutableList<E>\n\n\n /**\n * A generic unordered collection of elements that does not support
duplicate elements.\n * Methods in this interface support only read-only access to the set;\n * read/write access is
supported through the [MutableSet] interface.\n * @param E the type of elements contained in the set. The set is
covariant on its element type.\n */\n public interface Set<out E> : Collection<E> {\n // Query Operations\n\n
override val size: Int\n override fun isEmpty(): Boolean\n override fun contains(element: @UnsafeVariance E):
Boolean\n override fun iterator(): Iterator<E>\n\n // Bulk Operations\n override fun containsAll(elements:
Collection<@UnsafeVariance E>): Boolean\n\n\n /**\n * A generic unordered collection of elements that does not
support duplicate elements, and supports\n * adding and
removing elements.\n * @param E the type of elements contained in the set. The mutable set is invariant on its
element type.\n */\n public interface MutableSet<E> : Set<E>, MutableCollection<E> {\n // Query Operations\n
override fun iterator(): MutableIterator<E>\n\n // Modification Operations\n\n /**\n * Adds the specified
element to the set.\n *\n * @return `true` if the element has been added, `false` if the element is already
contained in the set.\n */\n override fun add(element: E): Boolean\n\n override fun remove(element: E):
Boolean\n\n // Bulk Modification Operations\n\n override fun addAll(elements: Collection<E>): Boolean\n
override fun removeAll(elements: Collection<E>): Boolean\n override fun retainAll(elements: Collection<E>):
Boolean\n override fun clear(): Unit\n\n\n /**\n * A collection that holds pairs of objects (keys and values) and
supports efficiently retrieving\n * the value corresponding to each key. Map keys are unique;
the map holds only one value for each key.\n * Methods in this interface support only read-only access to the map;
read-write access is supported through\n * the [MutableMap] interface.\n * @param K the type of map keys. The
map is invariant on its key type, as it\n * can accept key as a parameter (of [containsKey] for example) and
return it in [keys] set.\n * @param V the type of map values. The map is covariant on its value type.\n */\n
public interface Map<K, out V> {\n // Query Operations\n\n /**\n * Returns the number of key/value pairs in the
map.\n */\n public val size: Int\n\n /**\n * Returns `true` if the map is empty (contains no elements), `false`
otherwise.\n */\n public fun isEmpty(): Boolean\n\n /**\n * Returns `true` if the map contains the specified
[key].\n */\n public fun containsKey(key: K): Boolean\n\n /**\n * Returns `true` if the map maps one or
more keys to the specified [value].\n */\n public
fun containsValue(value: @UnsafeVariance V): Boolean\n\n /**\n * Returns the value corresponding to the
given [key], or `null` if such a key is not present in the map.\n */\n public operator fun get(key: K): V?\n\n
/**\n * Returns the value corresponding to the given [key], or [defaultValue] if such a key is not present in the
map.\n *\n * @since JDK 1.8\n */\n @SinceKotlin("1.1")\n @PlatformDependent\n public fun
getOrDefault(key: K, defaultValue: @UnsafeVariance V): V {\n // See default implementation in JDK
sources\n return null as V\n }\n\n // Views\n /**\n * Returns a read-only [Set] of all keys in this map.\n
*/\n public val keys: Set<K>\n\n /**\n * Returns a read-only [Collection] of all values in this map. Note that
this collection may contain duplicate values.\n */\n public val values: Collection<V>\n\n /**\n * Returns a
read-only [Set] of all key/value pairs in this map.\n
*/\n public val entries: Set<Map.Entry<K, V>>\n\n /**\n * Represents a key/value pair held by a [Map].\n
*/\n public interface Entry<out K, out V> {\n /**\n * Returns the key of this key/value pair.\n
*/\n public val key: K\n\n /**\n * Returns the value of this key/value pair.\n
*/\n public val value: V\n }\n\n\n /**\n * A modifiable collection that holds pairs of objects (keys and values) and supports efficiently
retrieving\n * the value corresponding to each key. Map keys are unique; the map holds only one value for each
key.\n * @param K the type of map keys. The map is invariant on its key type.\n * @param V the type of map

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values. The mutable map is invariant on its value type.\n *\npublic interface MutableMap<K, V> : Map<K, V> {\n
// Modification Operations\n /**\n * Associates the specified [value] with the specified [key] in the map.\n
*\n * @return the previous value associated with
the key, or `null` if the key was not present in the map.\n *\n public fun put(key: K, value: V): V?\n\n /**\n
* Removes the specified key and its corresponding value from this map.\n *\n * @return the previous value
associated with the key, or `null` if the key was not present in the map.\n *\n public fun remove(key: K):
V?\n\n /**\n * Removes the entry for the specified key only if it is mapped to the specified value.\n *\n *
@return true if entry was removed\n *\n @SinceKotlin("1.1")\n @PlatformDependent\n public fun
remove(key: K, value: V): Boolean {\n // See default implementation in JDK sources\n return true\n }\n\n
// Bulk Modification Operations\n /**\n * Updates this map with key/value pairs from the specified map
[from].\n *\n public fun putAll(from: Map<out K, V>): Unit\n\n /**\n * Removes all elements from this
map.\n *\n public fun clear(): Unit\n\n // Views\n
/**\n * Returns a [MutableSet] of all keys in this map.\n *\n override val keys: MutableSet<K>\n\n
/**\n * Returns a [MutableCollection] of all values in this map. Note that this collection may contain duplicate
values.\n *\n override val values: MutableCollection<V>\n\n /**\n * Returns a [MutableSet] of all
key/value pairs in this map.\n *\n override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n\n
/**\n * Represents a key/value pair held by a [MutableMap].\n *\n public interface MutableEntry<K, V> :
Map.Entry<K, V> {\n /**\n * Changes the value associated with the key of this entry.\n *\n *
@return the previous value corresponding to the key.\n *\n public fun setValue(newValue: V): V\n
}\n\n", "\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin.collections\n\n/** An iterator over a sequence of values of type `Byte`. *\npublic abstract class ByteIterator :
Iterator<Byte> {\n override final fun next() = nextByte()\n\n /** Returns the next value in the sequence without
boxing. *\n public abstract fun nextByte(): Byte\n}\n\n/** An iterator over a sequence of values of type `Char`.
*\npublic abstract class CharIterator : Iterator<Char> {\n override final fun next() = nextChar()\n\n /** Returns
the next value in the sequence without boxing. *\n public abstract fun nextChar(): Char\n}\n\n/** An iterator over
a sequence of values of type `Short`. *\npublic abstract class ShortIterator : Iterator<Short> {\n override final fun
next() = nextShort()\n\n /** Returns the next value in the sequence without boxing. *\n public abstract fun
nextShort(): Short\n}\n\n/** An iterator over a sequence of values of type
`Int`. *\npublic abstract class IntIterator : Iterator<Int> {\n override final fun next() = nextInt()\n\n /** Returns
the next value in the sequence without boxing. *\n public abstract fun nextInt(): Int\n}\n\n/** An iterator over a
sequence of values of type `Long`. *\npublic abstract class LongIterator : Iterator<Long> {\n override final fun
next() = nextLong()\n\n /** Returns the next value in the sequence without boxing. *\n public abstract fun
nextLong(): Long\n}\n\n/** An iterator over a sequence of values of type `Float`. *\npublic abstract class
FloatIterator : Iterator<Float> {\n override final fun next() = nextFloat()\n\n /** Returns the next value in the
sequence without boxing. *\n public abstract fun nextFloat(): Float\n}\n\n/** An iterator over a sequence of
values of type `Double`. *\npublic abstract class DoubleIterator : Iterator<Double> {\n override final fun next() =
nextDouble()\n\n /** Returns the next value in the sequence
without boxing. *\n public abstract fun nextDouble(): Double\n}\n\n/** An iterator over a sequence of values of
type `Boolean`. *\npublic abstract class BooleanIterator : Iterator<Boolean> {\n override final fun next() =
nextBoolean()\n\n /** Returns the next value in the sequence without boxing. *\n public abstract fun
nextBoolean(): Boolean\n}\n\n", "\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\n/** An
iterator over a progression of values of type `Char`. *\n @property step the number by which the value is
incremented on each step.\n *\ninternal class CharProgressionIterator(first: Char, last: Char, val step: Int) :
CharIterator() {\n private val finalElement = last.toInt()\n private var hasNext: Boolean = if (step > 0) first

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<= last else first >= last\n    private var next = if (hasNext) first.toInt() else finalElement\n\n    override fun
hasNext(): Boolean = hasNext\n\n    override fun nextChar(): Char {\n        val value = next\n        if (value ==
finalElement) {\n            if (!hasNext) throw kotlin.NoSuchElementException()\n            hasNext = false\n        }\n        else {\n            next += step\n        }\n        return value.toChar()\n    }\n}\n\n/**\n * An iterator over a progression
of values of type `Int`.\n * @property step the number by which the value is incremented on each step.\n */\ninternal
class IntProgressionIterator(first: Int, last: Int, val step: Int) : IntIterator() {\n    private val finalElement = last\n
private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n    private var next = if (hasNext) first else
finalElement\n\n    override fun hasNext(): Boolean = hasNext\n\n    override fun nextInt(): Int {\n        val value =
next\n        if (value
== finalElement) {\n            if (!hasNext) throw kotlin.NoSuchElementException()\n            hasNext = false\n
        }\n        else {\n            next += step\n        }\n        return value\n    }\n}\n\n/**\n * An iterator over a progression of
values of type `Long`.\n * @property step the number by which the value is incremented on each step.\n */\ninternal
class LongProgressionIterator(first: Long, last: Long, val step: Long) : LongIterator() {\n    private val finalElement
= last\n    private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n    private var next = if
(hasNext) first else finalElement\n\n    override fun hasNext(): Boolean = hasNext\n\n    override fun nextLong():
Long {\n        val value = next\n        if (value == finalElement) {\n            if (!hasNext) throw
kotlin.NoSuchElementException()\n            hasNext = false\n        }\n        else {\n            next += step\n
        }\n        return value\n    }\n}\n\n"/>\n *

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Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated
file. DO NOT EDIT!\n\npackage kotlin.ranges\n\nimport kotlin.internal.getProgressionLastElement\n\n/**\n * A
progression of values of type `Char`.\n */\npublic open class CharProgression\n    internal constructor\n    (\n        start: Char,\n        endInclusive: Char,\n        step: Int\n    ) : Iterable<Char> {\n    init {\n        if (step == 0)
throw kotlin.IllegalArgumentException("\nStep must be non-zero.\n")\n        if (step == Int.MIN_VALUE) throw
kotlin.IllegalArgumentException("\nStep must be greater than Int.MIN_VALUE to avoid overflow on negation.\n")\n
    }\n\n    /**\n     * The first element in the progression.\n     */\n    public val first: Char = start\n\n    /**\n     * The
last element in the progression.\n     */\n    public val last:
Char = getProgressionLastElement(start.toInt(), endInclusive.toInt(), step).toChar()\n\n    /**\n     * The step of the
progression.\n     */\n    public val step: Int = step\n\n    override fun iterator(): CharIterator =
CharProgressionIterator(first, last, step)\n\n    /** Checks if the progression is empty. */\n    public open fun
isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n    override fun equals(other: Any?): Boolean =\n        other is CharProgression && (isEmpty() && other.isEmpty()) ||\n            first == other.first && last == other.last &&
step == other.step\n\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * (31 * first.toInt() +
last.toInt()) + step)\n\n    override fun toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo
$last step ${-step}"\n\n    companion object {\n        /**\n         * Creates CharProgression within the specified
bounds of a closed range.\n         * The progression starts
with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n
         * In order to go backwards the [step] must be negative.\n         * [step] must be greater than
`Int.MIN_VALUE` and not equal to zero.\n         */\n        public fun fromClosedRange(rangeStart: Char, rangeEnd:
Char, step: Int): CharProgression = CharProgression(rangeStart, rangeEnd, step)\n    }\n\n    /**\n     * A progression
of values of type `Int`.\n     */\n    public open class IntProgression\n        internal constructor\n        (\n            start: Int,\n            endInclusive: Int,\n            step: Int\n        ) : Iterable<Int> {\n        init {\n            if (step == 0) throw
kotlin.IllegalArgumentException("\nStep must be non-zero.\n")\n            if (step == Int.MIN_VALUE) throw
kotlin.IllegalArgumentException("\nStep must be greater than Int.MIN_VALUE to avoid overflow on negation.\n")\n
        }\n\n        /**\n         * The first element in the progression.\n         */\n        public
val first: Int = start\n\n        /**\n         * The last element in the progression.\n         */\n        public val last: Int =
getProgressionLastElement(start.toInt(), endInclusive.toInt(), step).toInt()\n\n        /**\n         * The step of the
progression.\n         */\n        public val step: Int = step\n\n        override fun iterator(): IntIterator =

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IntProgressionIterator(first, last, step)\n\n /** Checks if the progression is empty. */\n public open fun
isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n override fun equals(other: Any?): Boolean =\n other is IntProgression && (isEmpty() && other.isEmpty()) ||\n first == other.first && last == other.last &&
step == other.step)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * first + last) +
step)\n\n override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-
step}\"\n\n companion object {\n\n /**\n * Creates IntProgression
within the specified bounds of a closed range.\n\n * The progression starts with the [rangeStart] value and goes
toward the [rangeEnd] value not excluding it, with the specified [step].\n\n * In order to go backwards the [step]
must be negative.\n\n * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n\n */\n
public fun fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int): IntProgression =
IntProgression(rangeStart, rangeEnd, step)\n }
}\n\n/**\n * A progression of values of type `Long`.\n */\npublic
open class LongProgression\n internal constructor\n (\n start: Long,\n endInclusive: Long,\n
step: Long\n ): Iterable<Long> {\n init {\n if (step == 0L) throw kotlin.IllegalArgumentException(\"Step
must be non-zero.\")\n if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be
greater than Long.MIN_VALUE to avoid overflow on
negation.\")\n }\n\n /**\n * The first element in the progression.\n */\n public val first: Long = start\n\n
/**\n * The last element in the progression.\n */\n public val last: Long =
getProgressionLastElement(start.toLong(), endInclusive.toLong(), step).toLong()\n\n /**\n * The step of the
progression.\n */\n public val step: Long = step\n\n override fun iterator(): LongIterator =
LongProgressionIterator(first, last, step)\n\n /** Checks if the progression is empty. */\n public open fun
isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n override fun equals(other: Any?): Boolean =\n
other is LongProgression && (isEmpty() && other.isEmpty()) ||\n first == other.first && last == other.last &&
step == other.step)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * (first xor (first ushr
32)) + (last xor (last ushr 32))) + (step xor (step ushr 32))).toInt()\n\n override
fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n
companion object {\n\n /**\n * Creates LongProgression within the specified bounds of a closed range.\n\n
* The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with
the specified [step].\n\n * In order to go backwards the [step] must be negative.\n\n * [step] must be
greater than `Long.MIN_VALUE` and not equal to zero.\n\n */\n
public fun fromClosedRange(rangeStart:
Long, rangeEnd: Long, step: Long): LongProgression = LongProgression(rangeStart, rangeEnd, step)\n
}\n}\n\n"/\n\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.ranges\n\n/**\n * Represents a range of values (for example,
numbers or characters).\n\n * See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/ranges.html) for more information.\n */\npublic interface
ClosedRange<T: Comparable<T>> {\n\n /**\n * The minimum value in the range.\n */\n public val start:
T\n\n /**\n * The maximum value in the range (inclusive).\n */\n public val endInclusive: T\n\n /**\n *
Checks whether the specified [value] belongs to the range.\n */\n public operator fun contains(value: T):
Boolean = value >= start && value <= endInclusive\n\n /**\n * Checks whether the range is empty.\n */\n
public fun isEmpty(): Boolean = start > endInclusive\n}\n}\n\n"/\n\n * Copyright 2010-2015 JetBrains s.r.o.\n *\n
Licensed under the Apache License, Version 2.0 (the \"License\");\n * you may not use this file except in
compliance with the License.\n * You may obtain a copy of the License at\n *\n
http://www.apache.org/licenses/LICENSE-2.0\n *\n * Unless required
by applicable law or agreed to in writing, software\n * distributed under the License is distributed on an \"AS IS\"
BASIS,\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n * See the
License for the specific language governing permissions and\n * limitations under the License.\n */\n\npackage
kotlin\n\n/**\n * The type with only one value: the `Unit` object. This type corresponds to the `void` type in Java.\n
*/\n\npublic object Unit {\n\n override fun toString() = \"kotlin.Unit\"\n}\n}\n\n"/\n\n * Copyright 2010-2015 JetBrains

```

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```

package kotlin.annotation
import kotlin.annotation.AnnotationTarget

/** Contains the list of code elements which are the possible annotation targets
public enum class AnnotationTarget {
    /** Class, interface or object, annotation class is also included
    CLASS,
    /** Annotation class only
    ANNOTATION_CLASS,
    /** Generic type parameter (unsupported yet)
    TYPE_PARAMETER,
    /** Property
    PROPERTY,
    /** Field, including property's backing field
    FIELD,
    /** Local variable
    LOCAL_VARIABLE,
    /** Value parameter of a function or a constructor
    VALUE_PARAMETER,
    /** Constructor only (primary or secondary)
    CONSTRUCTOR,
    /** Function (constructors are not included)
    FUNCTION,
    /** Property getter only
    PROPERTY_GETTER,
    /** Property setter only
    PROPERTY_SETTER,
    /** Type usage
    TYPE,
    /** Any expression
    EXPRESSION,
    /** File
    FILE,
    /** Type alias
    @SinceKotlin("1.1")
    TYPEALIAS
}
*/
/** Contains the list of possible annotation's retentions.
Determines how an annotation is stored in binary output.
public enum class AnnotationRetention {
    /** Annotation isn't stored in binary output
    SOURCE,
    /** Annotation is stored in binary output, but invisible for reflection
    BINARY,
    /** Annotation is stored in binary output and visible for reflection (default retention)
    RUNTIME
}
*/
/** This meta-annotation indicates the kinds of code elements which are possible targets of an annotation.
If the target meta-annotation is not present on an annotation declaration, the annotation is applicable to the following elements:
[CLASS], [PROPERTY], [FIELD], [LOCAL_VARIABLE], [VALUE_PARAMETER], [CONSTRUCTOR], [FUNCTION], [PROPERTY_GETTER], [PROPERTY_SETTER].
@property allowedTargets list of allowed annotation targets
@property allowedTargets(AnnotationTarget.ANNOTATION_CLASS)
@MustBeDocumented
public annotation class Target(vararg val allowedTargets: AnnotationTarget)
*/
/** This meta-annotation determines whether an annotation is stored in binary output and visible for reflection. By default, both are true.
@property value necessary annotation retention (RUNTIME, BINARY or SOURCE)
@property allowedTargets(AnnotationTarget.ANNOTATION_CLASS)
public annotation class Retention(val value: AnnotationRetention = AnnotationRetention.RUNTIME)
*/
/** This meta-annotation determines that an annotation is applicable twice or more on a single code element
@property allowedTargets(AnnotationTarget.ANNOTATION_CLASS)
public annotation class Repeatable
*/
/** This meta-annotation determines that an annotation is a part of public API and therefore should be included in the generated documentation
for the element to which the annotation is applied.
@property allowedTargets(AnnotationTarget.ANNOTATION_CLASS)
public annotation class MustBeDocumented
*/

```

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```

package kotlin.internal
*/
/** Specifies that the corresponding type parameter is not used for unsafe operations such as casts or 'is' checks
That means it's completely safe to use generic types as argument for such parameter.

```

`*\n@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal`  
`annotation class PureReifiable\n/**\n * Specifies that the corresponding built-in method exists depending on`  
`platform.\n * Current implementation for JVM looks whether method with same JVM descriptor exists in the`  
`module JDK.\n * For example MutableMap.remove(K, V) available only if corresponding\n * method`  
`'java/util/Map.remove(Ljava/lang/Object;Ljava/lang/Object;)Z' is defined in JDK (i.e. for major versions >= 8)\n`  
`*\n@Target(AnnotationTarget.FUNCTION)\n@Retention(AnnotationRetention.BINARY)\ninternal`  
`annotation class PlatformDependent\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language`  
`contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the`  
`license/LICENSE.txt file.\n *\n\npackage kotlin.internal\n\n// a mod b (in arithmetical sense)\nprivate fun mod(a:`  
`Int, b: Int): Int {\n val mod = a % b\n`  
 `return if (mod >= 0) mod else mod + b\n}\n\nprivate fun mod(a: Long, b: Long): Long {\n val mod = a % b\n`  
 `return if (mod >= 0) mod else mod + b\n}\n\n// (a - b) mod c\nprivate fun differenceModulo(a: Int, b: Int, c: Int): Int`  
`{\n return mod(mod(a, c) - mod(b, c), c)\n}\n\nprivate fun differenceModulo(a: Long, b: Long, c: Long): Long {\n`  
 `return mod(mod(a, c) - mod(b, c), c)\n}\n\n/**\n * Calculates the final element of a bounded arithmetic`  
`progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a`  
`positive [step], or from [end] to [start] in case of a negative\n * [step].\n * No validation on passed parameters is`  
`performed. The given parameters should satisfy the condition:\n * - either `step > 0` and `start <= end`,\n * - or`  
``step < 0` and `start >= end`.\n * @param start first element of the progression\n * @param end ending bound`  
`for the progression\n * @param step increment, or difference of successive elements`  
`in the progression\n * @return the final element of the progression\n * @suppress\n *\n@PublishedApi\ninternal`  
`fun getProgressionLastElement(start: Int, end: Int, step: Int): Int = when {\n step > 0 -> if (start >= end) end else`  
`end - differenceModulo(end, start, step)\n step < 0 -> if (start <= end) end else end + differenceModulo(start, end,`  
`-step)\n else -> throw kotlin.IllegalArgumentException("Step is zero.")\n}\n\n/**\n * Calculates the final element`  
`of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to`  
`[end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n * No validation on`  
`passed parameters is performed. The given parameters should satisfy the condition:\n * - either `step > 0` and`  
``start <= end`,\n * - or `step < 0` and `start >= end`.\n * @param start first element of the progression\n *`  
`@param end ending bound for the progression\n * @param`  
`step increment, or difference of successive elements in the progression\n * @return the final element of the`  
`progression\n * @suppress\n *\n@PublishedApi\ninternal fun getProgressionLastElement(start: Long, end: Long,`  
`step: Long): Long = when {\n step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n`  
`step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)\n else -> throw`  
`kotlin.IllegalArgumentException("Step is zero.")\n}\n","/*\n * Copyright 2010-2015 JetBrains s.r.o.\n *\n * Licensed under the Apache License, Version 2.0 (the "License");\n * you may not use this file except in`  
`compliance with the License.\n * You may obtain a copy of the License at\n *\n *`   
`http://www.apache.org/licenses/LICENSE-2.0\n *\n * Unless required by applicable law or agreed to in writing,`  
`software\n * distributed under the License is distributed on an "AS IS" BASIS,\n * WITHOUT WARRANTIES`  
`OR CONDITIONS OF ANY KIND, either express or implied.\n`  
`* See the License for the specific language governing permissions and\n * limitations under the License.\n`  
`*\n\npackage kotlin.reflect\n\n/**\n * Represents a parameter passed to a function\n * or a property getter/setter,\n * including `this` and extension receiver parameters.\n *\n * public interface KParameter : KAnnotatedElement {\n`  
`/**\n * 0-based index of this parameter in the parameter list of its containing callable.\n *\n * public val index:`  
`Int\n\n /**\n * Name of this parameter as it was declared in the source code,\n * or `null` if the parameter has`  
`no name or its name is not available at runtime.\n * Examples of nameless parameters include `this` instance for`  
`member functions,\n * extension receiver for extension functions or properties, parameters of Java methods\n *`   
`compiled without the debug information, and others.\n *\n * public val name: String?\n\n /**\n * Type of`  
`this parameter. For a `vararg` parameter, this is the`

type of the corresponding array, \n \* not the individual element. \n \*/\n public val type: KType\n\n /\*\*\n \* Kind of this parameter. \n \*/\n public val kind: Kind\n\n /\*\*\n \* Kind represents a particular position of the parameter declaration in the source code, \n \* such as an instance, an extension receiver parameter or a value parameter. \n \*/\n public enum class Kind {\n\n /\*\* Instance required to make a call to the member, or an outer class instance for an inner class constructor. \*/\n INSTANCE,\n\n /\*\* Extension receiver of an extension function or property. \*/\n EXTENSION\_RECEIVER,\n\n /\*\* Ordinary named value parameter. \*/\n VALUE,\n\n }\n\n /\*\*\n \* `true` if this parameter is optional and can be omitted when making a call via [KCallable.callBy], or `false` otherwise. \n \*/\n \* A parameter is optional in any of the two cases: \n \* 1. The default value is provided at the declaration of this parameter. \n \* 2. The parameter is declared in a member function and one of the corresponding parameters in the super functions is optional. \n \*/\n public val isOptional: Boolean\n\n /\*\*\n \* `true` if this parameter is `vararg`. \n \* See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/functions.html#variable-number-of-arguments-varargs)\n \* for more information. \n \*/\n @SinceKotlin("1.1")\n public val isVararg: Boolean\n\n /\*\*\n \* Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors. \n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. \n \*/\n\n package kotlin.reflect\n\n /\*\*\n \* Represents a type. Type is usually either a class with optional type arguments, \n \* or a type parameter of some declaration, plus nullability. \n \*/\n public interface KType : KAnnotatedElement {\n\n /\*\*\n \* The declaration of the classifier used in this type. \n \* For example, in the type `List<String>` the classifier would be the [KClass] instance for [List]. \n \*/\n \* Returns `null` if this type is not denotable in Kotlin, for example if it is an intersection type. \n \*/\n @SinceKotlin("1.1")\n public val classifier: KClassifier?\n\n /\*\*\n \* Type arguments passed for the parameters of the classifier in this type. \n \* For example, in the type `Array<out Number>` the only type argument is `out Number`. \n \* In case this type is based on an inner class, the returned list contains the type arguments provided for the innermost class first, \n \* then its outer class, and so on. \n \* For example, in the type `Outer<A, B>.Inner<C, D>` the returned list is `[C, D, A, B]`. \n \*/\n @SinceKotlin("1.1")\n public val arguments: List<KTypeProjection>\n\n /\*\*\n \* `true` if this type was marked nullable in the source code. \n \* For Kotlin types, it means that `null` value is allowed to be represented by this type. \n \* In practice it means that the type was declared with a question mark at the end. \n \* For non-Kotlin types, it means the type or the symbol which was declared with this type \n \* is annotated with a runtime-retained nullability annotation such as [javax.annotation.Nullable]. \n \* Note that even if [isMarkedNullable] is false, values of the type can still be `null`. \n \* This may happen if it is a type of the type parameter with a nullable upper bound: \n \* \n \* ``` \n \* fun <T> foo(t: T) {\n \* // isMarkedNullable == false for t's type, but t can be null here when T = `Any?` \n \* }\n \* ``` \n \*/\n public val isMarkedNullable: Boolean\n\n /\*\*\n \* Represents a type projection. Type projection is usually the argument to another type in a type usage. \n \* For example, in the type `Array<out Number>`, `out Number` is the covariant projection of the type represented by the class `Number`. \n \* Type projection is either the star projection, or an entity consisting of a specific type plus optional variance. \n \* See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#type-projections)\n \* for more information. \n \*/\n @SinceKotlin("1.1")\n public data class KTypeProjection\n constructor(\n\n /\*\*\n \* The use-site variance specified in the projection, or `null` if this is a star projection. \n \*/\n variance: KVariance?,\n\n /\*\*\n \* The type specified in the projection, or `null` if this is a star projection. \n \*/\n type: KType?\n) {\n\n public companion object {\n\n /\*\*\n \* Star projection, denoted by the `\*` character. \n \* For example, in the type `KClass<\*>`, `\*` is the star projection. \n \* See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#star-projections)\n \* for more information. \n \*/\n } \n } \n } \n } \n }

```

    *^/n    public val STAR: KTypeProjection = KTypeProjection(null, null)\n/n    /**\n    * Creates an
invariant projection of a given type. Invariant projection is just the type itself,\n    * without any use-site variance
modifiers applied to it.\n    * For example, in the type `Set<String>`, `String` is an invariant projection of the type
represented by the class `String`.\n    */\n    public fun invariant(type: KType): KTypeProjection =\n
KTypeProjection(KVariance.INVARIANT, type)\n/n    /**\n    * Creates a contravariant projection of a given
type, denoted by the `in` modifier applied to a type.\n    * For example, in the type `MutableList<in Number>`,
`in Number` is a contravariant projection of the type of class `Number`.\n    */\n    public fun
contravariant(type: KType): KTypeProjection =\n
KTypeProjection(KVariance.IN, type)\n/n    /**\n
* Creates a covariant projection
of a given type, denoted by the `out` modifier applied to a type.\n    * For example, in the type `Array<out
Number>`, `out Number` is a covariant projection of the type of class `Number`.\n    */\n    public fun
covariant(type: KType): KTypeProjection =\n
KTypeProjection(KVariance.OUT, type)\n } \n } \n", /*\n *
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http://www.apache.org/licenses/LICENSE-2.0\n *\n * Unless required by applicable law or agreed to in writing,
software\n *\n * distributed under the License is distributed on an `AS IS` BASIS,\n *\n * WITHOUT WARRANTIES
OR CONDITIONS OF ANY KIND, either express or implied.\n *\n * See the License for the specific language
governing permissions and\n *\n * limitations under the License.\n */\n\npackage kotlin.reflect\n\n/**\n *
Represents variance applied to a type parameter on the declaration site (*declaration-site variance*),\n * or to a type
in a projection (*use-site variance*).\n *\n * See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/generics.html#variance)\n * for more information.\n *\n *
@see [KTypeParameter.variance]\n * @see [KTypeProjection]\n */\n\n@SinceKotlin("1.1")\nenum class KVariance
{\n    /**\n    * The affected type parameter or type is *invariant*, which means it has no variance applied to it.\n
*\n    * INVARIANT,\n/n    /**\n    * The affected type parameter or type is *contravariant*. Denoted by the `in`
modifier in the source code.\n    * IN,\n/n    /**\n    * The affected type parameter or type is *covariant*.
Denoted by the `out` modifier in the source code.\n    * OUT,\n/n } \n", /*\n * Copyright 2010-2016 JetBrains
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OR CONDITIONS OF ANY KIND, either express or implied.\n *\n * See the License for the specific language
governing permissions and\n *\n * limitations under the License.\n */\n\npackage kotlin.reflect\n\n/**\n *
Visibility is
an aspect of a Kotlin declaration regulating where that declaration is accessible in the source code.\n * Visibility can
be changed with one of the following modifiers: `public`, `protected`, `internal`, `private`.\n *\n * Note that some
Java visibilities such as package-private and protected (which also gives access to items from the same package)\n *
cannot be represented in Kotlin, so there's no [KVisibility] value corresponding to them.\n *\n * See the [Kotlin
language documentation](https://kotlinlang.org/docs/reference/visibility-modifiers.html)\n
* for more information.\n */\n\n@SinceKotlin("1.1")\nenum class KVisibility {\n    /**\n    * Visibility of
declarations marked with the `public` modifier, or with no modifier at all.\n    * PUBLIC,\n/n    /**\n    *
Visibility of declarations marked with the `protected` modifier.\n    * PROTECTED,\n/n    /**\n    * Visibility
of declarations marked with the `internal` modifier.\n    * INTERNAL,\n/n    /**\n    * Visibility of
declarations marked with the `private` modifier.\n    * PRIVATE,\n/n } \n", /*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n *\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\n@JsName("arrayIterator")\ninternal fun
arrayIterator(array: dynamic, type: String?) = when (type) {\n    null -> {\n        val arr: Array<dynamic> = array\n
object : Iterator<dynamic>

```

```

{\n      var index = 0\n      override fun hasNext() = index < arr.size\n      override fun next() = if (index <
arr.size) arr[index++] else throw NoSuchElementException("$index")\n    }\n  }\n  \"BooleanArray\" ->
booleanArrayIterator(array)\n  \"ByteArray\" -> byteArrayIterator(array)\n  \"ShortArray\" ->
shortArrayIterator(array)\n  \"CharArray\" -> charArrayIterator(array)\n  \"IntArray\" -> intArrayIterator(array)\n
\"LongArray\" -> longArrayIterator(array)\n  \"FloatArray\" -> floatArrayIterator(array)\n  \"DoubleArray\" ->
doubleArrayIterator(array)\n  else -> throw IllegalStateException(\"Unsupported type argument for arrayIterator:
$type\")\n}\n\n@JsName(\"booleanArrayIterator\")\ninternal fun booleanArrayIterator(array: BooleanArray) =
object : BooleanIterator() {\n  var index = 0\n  override fun hasNext() = index < array.size\n  override fun
nextBoolean() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"byteArrayIterator\")\ninternal
fun byteArrayIterator(array: ByteArray) = object : ByteIterator() {\n  var index = 0\n  override fun hasNext() =
index < array.size\n  override fun nextByte() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"shortArrayIterator\")\ninternal fun
shortArrayIterator(array: ShortArray) = object : ShortIterator() {\n  var index = 0\n  override fun hasNext() =
index < array.size\n  override fun nextShort() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"charArrayIterator\")\ninternal fun charArrayIterator(array:
CharArray) = object : CharIterator() {\n  var index = 0\n  override fun hasNext() = index < array.size\n  override
fun nextChar() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"intArrayIterator\")\ninternal fun intArrayIterator(array:
IntArray) = object : IntIterator() {\n  var index = 0\n  override fun hasNext() = index < array.size\n  override fun
nextInt() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"floatArrayIterator\")\ninternal fun
floatArrayIterator(array: FloatArray) = object : FloatIterator() {\n  var index = 0\n  override fun hasNext() = index
< array.size\n  override fun nextFloat() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"doubleArrayIterator\")\ninternal fun
doubleArrayIterator(array: DoubleArray) = object : DoubleIterator() {\n  var index = 0\n  override fun hasNext()
= index < array.size\n  override fun nextDouble() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"longArrayIterator\")\ninternal fun longArrayIterator(array:
LongArray) = object : LongIterator() {\n  var index = 0\n  override fun hasNext()
= index < array.size\n  override fun nextLong() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"PropertyMetadata\")\ninternal class
PropertyMetadata(@JsName(\"callableName\") val name:
String)\n\n@JsName(\"noWhenBranchMatched\")\ninternal fun noWhenBranchMatched(): Nothing = throw
NoWhenBranchMatchedException()\n\n@JsName(\"subSequence\")\ninternal fun subSequence(c: CharSequence,
startIndex: Int, endIndex: Int): CharSequence {\n  if (c is String) {\n    return c.substring(startIndex, endIndex)\n
  } else {\n    return c.asDynamic().`subSequence_vux9f0$`(startIndex, endIndex)\n
  }\n}\n\n@JsName(\"captureStack\")\ninternal fun captureStack(baseClass: JsClass<in Throwable>, instance:
Throwable) {\n  if (js(\"Error\").captureStackTrace) {\n    js(\"Error\").captureStackTrace(instance,
instance::class.js);\n  } else {\n    instance.asDynamic().stack = js(\"new Error()\").stack;\n
  }\n}\n\n@JsName(\"newThrowable\")\ninternal
fun newThrowable(message: String?, cause: Throwable?): Throwable {\n  val throwable = js(\"new Error()\")\n
throwable.message = if (jsTypeOf(message) == \"undefined\") {\n    if (cause != null) cause.toString() else null\n
  } else {\n    message\n  }\n  throwable.cause = cause\n  throwable.name = \"Throwable\"\n  return
throwable\n}\n\n@JsName(\"BoxedChar\")\ninternal class BoxedChar(val c: Int) : Comparable<Int> {\n  override
fun equals(other: Any?): Boolean {\n    return other is BoxedChar && c == other.c\n  }\n  override fun
hashCode(): Int {\n    return c\n  }\n  override fun toString(): String {\n    return
js(\"this.c\").unsafeCast<Char>().toString()\n  }\n  override fun compareTo(other: Int): Int {\n    return
js(\"this.c - other\").unsafeCast<Int>()\n  }\n  @JsName(\"valueOf\")\n  public fun valueOf(): Int {\n

```

```

return c\n } \n\n@kotlin.internal.InlineOnly\ninternal inline fun <T>
concat(args: Array<T>): T {\n val typed = js("Array")(args.size)\n for (i in args.indices) {\n val arr =
args[i]\n if (arr !is Array<*>) {\n typed[i] = js("[]").slice.call(arr)\n } else {\n typed[i] =
arr\n }\n }\n return js("[]").concat.apply(js("[]"), typed);\n}\n\n/** Concat regular Array's and
TypedArray's into an Array.\n
*\n@PublishedApi\n@JsName("arrayConcat")\n@Suppress("UNUSED_PARAMETER")\ninternal fun <T>
arrayConcat(a: T, b: T): T {\n return concat(js("arguments"))\n}\n\n/** Concat primitive arrays. Main use:
prepare vararg arguments.\n * For compatibility with 1.1.0 the arguments may be a mixture of Array's and
TypedArray's.\n *\n * If the first argument is TypedArray (Byte-, Short-, Char-, Int-, Float-, and DoubleArray)
returns a TypedArray, otherwise an Array.\n * If the first argument has the $type$ property (Boolean-, Char-, and
LongArray) copy its value to result.$type$.\n * If the first
argument is a regular Array without the $type$ property default to arrayConcat.\n
*\n@PublishedApi\n@JsName("primitiveArrayConcat")\n@Suppress("UNUSED_PARAMETER")\ninternal
fun <T> primitiveArrayConcat(a: T, b: T): T {\n val args: Array<T> = js("arguments")\n if (a is Array<*> &&
a.asDynamic().`$type$` === undefined) {\n return concat(args)\n } else {\n var size = 0\n for (i in
args.indices) {\n size += args[i].asDynamic().length as Int\n }\n val result = js("new
a.constructor(size)")\n kotlin.copyArrayType(a, result)\n size = 0\n for (i in args.indices) {\n val
arr = args[i].asDynamic()\n for (j in 0 until arr.length) {\n result[size++] = arr[j]\n }\n }\n
return result\n }\n}\n\n@JsName("booleanArrayOf")\ninternal fun booleanArrayOf() =
withType("BooleanArray", js("[]").slice.call(arguments))\n}\n\n@JsName("charArrayOf") // The arguments
have to be slice'd here because of Rhino (see KT-16974)\ninternal fun charArrayOf() = withType("CharArray",
js("new Uint16Array([]).slice.call(arguments)))\n}\n\n@JsName("longArrayOf")\ninternal fun longArrayOf() =
withType("LongArray",
js("[]").slice.call(arguments))\n}\n\n@JsName("withType")\n@kotlin.internal.InlineOnly\ninternal inline fun
withType(type: String, array: dynamic): dynamic {\n array.`$type$` = type\n return array\n},"/*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n *
Function corresponding to JavaScript's `typeof` operator\n
*\n@kotlin.internal.InlineOnly\n@Suppress("UNUSED_PARAMETER")\npublic inline fun jsTypeOf(a: Any?):
String = js("typeof a")\n},"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:Suppress("UNUSED_PARAMETER", "NOTHING_TO_INLINE")\n\npackage kotlin\n\n/**\n *
Returns an empty array of the specified type [T].\n *\n@public inline fun <T> emptyArray(): Array<T> =
js("[]")\n}\n\n@library\npublic fun <T> arrayOf(vararg elements: T): Array<T> =
definedExternally\n}\n\n@library\npublic fun doubleArrayOf(vararg elements: Double): DoubleArray =
definedExternally\n}\n\n@library\npublic fun floatArrayOf(vararg elements: Float): FloatArray =
definedExternally\n}\n\n@library\npublic fun longArrayOf(vararg elements: Long): LongArray =
definedExternally\n}\n\n@library\npublic fun intArrayOf(vararg elements: Int): IntArray =
definedExternally\n}\n\n@library\npublic fun charArrayOf(vararg elements: Char): CharArray =
definedExternally\n}\n\n@library\npublic fun shortArrayOf(vararg elements: Short): ShortArray =
definedExternally\n}\n\n@library\npublic fun byteArrayOf(vararg elements:
Byte): ByteArray = definedExternally\n}\n\n@library\npublic fun booleanArrayOf(vararg elements: Boolean):
BooleanArray = definedExternally\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified
initialization function [initializer].\n *\n@public actual fun <T> lazy(initializer: () -> T): Lazy<T> =
UnsafeLazyImpl(initializer)\n}\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization
function [initializer].\n *\n * The [mode] parameter is ignored.\n *\n@public actual fun <T> lazy(mode:
LazyThreadSafetyMode, initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n}\n\n/**\n * Creates a new

```

```

instance of the [Lazy] that uses the specified initialization function [initializer].\n * The [lock] parameter is
ignored.\n */\npublic actual fun <T> lazy(lock: Any?, initializer: () -> T): Lazy<T> =
UnsafeLazyImpl(initializer)\n\ninternal fun fillFrom(src: dynamic, dst: dynamic): dynamic {\n    val srcLen: Int =
src.length\n    val dstLen: Int = dst.length\n
    var index: Int = 0\n    while (index < srcLen && index < dstLen) dst[index] = src[index++]\n    return
dst}\n\ninternal fun arrayCopyResize(source: dynamic, newSize: Int, defaultValue: Any?): dynamic {\n    val
result = source.slice(0, newSize)\n    copyArrayType(source, result)\n    var index: Int = source.length\n    if
(newSize > index) {\n        result.length = newSize\n        while (index < newSize) result[index++] =
defaultValue\n    }\n    return result}\n\ninternal fun <T> arrayPlusCollection(array: dynamic, collection: Collection<T>):
dynamic
{\n    val result = array.slice()\n    result.length += collection.size\n    copyArrayType(array, result)\n    var
index: Int = array.length\n    for (element in collection) result[index++] = element\n    return result}\n\ninternal fun <T>
fillFromCollection(dst: dynamic, startIndex: Int, collection: Collection<T>): dynamic {\n    var index =
startIndex\n    for (element in collection) dst[index++] = element\n    return
dst}\n\ninternal inline fun copyArrayType(from: dynamic, to: dynamic) {\n    if (from.`$type$` !==
undefined)
{\n        to.`$type$` = from.`$type$`\n    }\n}\n\ninternal inline fun jsIsType(obj: dynamic, jsClass:
dynamic) =
js("Kotlin").isType(obj, jsClass)", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\nimport
kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@SinceKotlin("1.3")\n@JsName("CoroutineImpl")\n\ninternal abstract class CoroutineImpl(private val resultContinuation: Continuation<Any?>) : Continuation<Any?>
{\n    protected var state = 0\n    protected var exceptionState = 0\n    protected var result: Any? = null\n    protected
var exception: Throwable? = null\n    protected var finallyPath: Array<Int>? = null\n\n    public override val context:
CoroutineContext = resultContinuation.context\n\n
    private var intercepted_: Continuation<Any?>? = null\n\n    public fun intercepted(): Continuation<Any?> =\nintercepted_\n        ?: (context[ContinuationInterceptor]?.interceptContinuation(this) ?: this)\n        .also {
intercepted_ = it }\n\n    override fun resumeWith(result: Result<Any?>) {\n        var current = this\n        var
currentResult: Any? = result.getOrNull()\n        var currentException: Throwable? = result.exceptionOrNull()\n
        // This loop unrolls recursion in current.resumeWith(param) to make saner and shorter stack traces on resume\n
        while (true) {\n            with(current) {\n                val completion = resultContinuation\n
                // Set result and
                exception fields in the current continuation\n                if (currentException == null) {\n
                    this.result =
                    currentResult\n                } else {\n                    state = exceptionState\n                    exception
                    = currentException\n                }\n                try {\n                    val outcome = doResume()\n                    if
                    (outcome === COROUTINE_SUSPENDED) return\n                    currentResult = outcome\n                    currentException = null\n                } catch (exception: dynamic) { // Catch all exceptions\n                    currentResult = null\n                    currentException = exception.unsafeCast<Throwable>()\n                }\n                releaseIntercepted() // this state machine instance is terminating\n                if (completion is CoroutineImpl) {\n                    // unrolling recursion via loop\n                    current = completion\n                } else {\n                    // top-level completion reached -- invoke and return\n                    currentException?.let {\n                        completion.resumeWithException(it)\n                    } ?: completion.resume(currentResult)\n                }\n                return\n            }\n        }\n\n        private fun releaseIntercepted() {\n            val intercepted = intercepted_\n            if (intercepted != null && intercepted !== this) {\n                context[ContinuationInterceptor]!!.releaseInterceptedContinuation(intercepted)\n            }\n            this.intercepted_ =
CompletedContinuation // just in case\n        }\n\n        protected abstract fun doResume(): Any?\n\n        internal object
CompletedContinuation : Continuation<Any?> {\n            override val context: CoroutineContext\n                get() =
error("This continuation is already complete")\n            override fun resumeWith(result: Result<Any?>) {\n                error("This continuation is already complete")\n            }\n            override fun toString(): String = "This continuation is
already complete"\n        }\n\n        /*\n        * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n        * Use of this source code is governed by the Apache 2.0 license that can be found in the

```

license/LICENSE.txt

```
file.\n *\n@file:Suppress("UNCHECKED_CAST", "RedundantVisibilityModifier")\n\npackage  
kotlin\n\nimport kotlin.contracts.*\nimport kotlin.internal.InlineOnly\nimport kotlin.jvm.JvmField\n\n/**\n * A  
discriminated union that encapsulates a successful outcome with a value of type [T]\n * or a failure with an arbitrary  
[Throwable] exception.\n *\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@SinceKotlin("1.3")\n\npublic inline class Result<out T> @PublishedApi internal constructor(\n @PublishedApi\n internal val value:  
Any?) : Serializable {\n // discovery\n /**\n * Returns `true` if this instance represents a successful  
outcome.\n * In this case [isFailure] returns `false`.\n *\n public val isSuccess: Boolean get() = value !is  
Failure\n /**\n * Returns `true` if this instance represents a failed outcome.\n * In this case [isSuccess]  
returns `false`.\n *\n public val isFailure: Boolean get() = value is  
Failure\n // value & exception retrieval\n /**\n * Returns the encapsulated value if this instance represents  
[success][Result.isSuccess] or `null`\n * if it is [failure][Result.isFailure].\n *\n * This function is a  
shorthand for `getOrElse { null }` (see [getOrElse]) or\n * `fold(onSuccess = { it }, onFailure = { null })` (see  
[fold]).\n *\n @InlineOnly\n public inline fun getOrNull(): T? =\n when {\n isFailure -> null\n else -> value as T\n }\n /**\n * Returns the encapsulated [Throwable] exception if this instance  
represents [failure][isFailure] or `null`\n * if it is [success][isSuccess].\n *\n * This function is a shorthand  
for `fold(onSuccess = { null }, onFailure = { it })` (see [fold]).\n *\n public fun exceptionOrNull(): Throwable?  
=\n when (value) {\n is Failure -> value.exception\n else -> null\n }\n /**\n * Returns a  
string  
`Success(v)` if this instance represents [success][Result.isSuccess]\n * where `v` is a string representation of the  
value or a string `Failure(x)` if\n * it is [failure][isFailure] where `x` is a string representation of the exception.\n *\n public override fun toString(): String =\n when (value) {\n is Failure -> value.toString() //  
"Failure($exception)"\n else -> "Success($value)"\n }\n // companion with constructors\n /**\n * Companion object for [Result] class that contains its constructor functions\n * [success] and [failure].\n *\n public companion object {\n /**\n * Returns an instance that encapsulates the given [value] as successful  
value.\n *\n @InlineOnly\n public inline fun <T> success(value: T): Result<T> =\n Result(value)\n /**\n * Returns an instance that encapsulates the given [Throwable] [exception] as  
failure.\n *\n @InlineOnly\n public inline fun <T> failure(exception: Throwable): Result<T> =\n Result(createFailure(exception))\n }\n\n internal class Failure(\n @JvmField\n val exception:  
Throwable\n ) : Serializable {\n override fun equals(other: Any?): Boolean = other is Failure && exception  
== other.exception\n override fun hashCode(): Int = exception.hashCode()\n override fun toString(): String  
= "Failure($exception)"\n }\n /**\n * Creates an instance of internal marker [Result.Failure] class to\n * make sure that this class is not exposed in ABI.\n *\n@PublishedApi\n@SinceKotlin("1.3")\n\ninternal fun  
createFailure(exception: Throwable): Any =\n Result.Failure(exception)\n /**\n * Throws exception if the result  
is failure. This internal function minimizes\n * inlined bytecode for [getOrThrow] and makes sure that in the future  
we can\n * add some exception-augmenting logic here (if needed).\n *\n@PublishedApi\n@SinceKotlin("1.3")\n\ninternal  
fun Result<*>.throwOnFailure() {\n if (value is Result.Failure) throw value.exception\n }\n /**\n * Calls the  
specified function [block] and returns its encapsulated result if invocation was successful,\n * catching any  
[Throwable] exception that was thrown from the [block] function execution and encapsulating it as a failure.\n *\n@InlineOnly\n@SinceKotlin("1.3")\n\npublic inline fun <R> runCatching(block: () -> R): Result<R> {\n return try {\n Result.success(block())\n } catch (e: Throwable) {\n Result.failure(e)\n }\n }\n /**\n * Calls the specified function [block] with `this` value as its receiver and returns its encapsulated result if invocation  
was successful,\n * catching any [Throwable] exception that was thrown from the [block] function execution and  
encapsulating it as a failure.\n *\n@InlineOnly\n@SinceKotlin("1.3")\n\npublic inline fun <T, R>  
T.runCatching(block: T.() -> R): Result<R> {\n return try {\n
```

```

Result.success(block())\n } catch (e: Throwable) {\n     Result.failure(e)\n }\n}\n\n// -- extensions ---
\n\n/**\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or throws the
encapsulated [Throwable] exception\n * if it is [failure][Result.isFailure].\n *\n * This function is a shorthand for
`getOrElse { throw it }` (see [getOrElse]).\n *\n @InlineOnly\n @SinceKotlin("1.3")\n\npublic inline fun <T>
Result<T>.getOrThrow(): T {\n     throwOnFailure()\n     return value as T\n }\n\n/**\n * Returns the encapsulated
value if this instance represents [success][Result.isSuccess] or the\n * result of [onFailure] function for the
encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n *\n * Note, that this function rethrows any
[Throwable] exception thrown by [onFailure] function.\n *\n * This function is a shorthand for `fold(onSuccess = {
it }, onFailure = onFailure)` (see [fold]).\n *\n @InlineOnly\n @SinceKotlin("1.3")\n\npublic
inline fun <R, T : R> Result<T>.getOrElse(onFailure: (exception: Throwable) -> R): R {\n     contract {\n
callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)\n     }\n     return when (val exception =
exceptionOrNull()) {\n         null -> value as T\n         else -> onFailure(exception)\n     }\n }\n\n/**\n * Returns the
encapsulated value if this instance represents [success][Result.isSuccess] or the\n * [defaultValue] if it is
[failure][Result.isFailure].\n *\n * This function is a shorthand for `getOrElse { defaultValue }` (see [getOrElse]).\n
*\n @InlineOnly\n @SinceKotlin("1.3")\n\npublic inline fun <R, T : R> Result<T>.getOrDefault(defaultValue: R):
R {\n     if (isFailure) return defaultValue\n     return value as T\n }\n\n/**\n * Returns the result of [onSuccess] for the
encapsulated value if this instance represents [success][Result.isSuccess]\n * or the result of [onFailure] function for
the encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n *\n * Note, that this function rethrows any [Throwable] exception thrown by [onSuccess] or by [onFailure] function.\n
*\n @InlineOnly\n @SinceKotlin("1.3")\n\npublic inline fun <R, T> Result<T>.fold(\n     onSuccess: (value: T) ->
R,\n     onFailure: (exception: Throwable) -> R\n ): R {\n     contract {\n         callsInPlace(onSuccess,
InvocationKind.AT_MOST_ONCE)\n         callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)\n     }\n     return when (val exception = exceptionOrNull()) {\n         null -> onSuccess(value as T)\n         else ->
onFailure(exception)\n     }\n }\n\n// transformation\n\n/**\n * Returns the encapsulated result of the given
[transform] function applied to the encapsulated value\n * if this instance represents [success][Result.isSuccess] or
the\n * original encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n *\n * Note, that this function
rethrows any [Throwable] exception thrown by [transform] function.\n *\n * See [mapCatching] for an alternative that
encapsulates exceptions.\n *\n @InlineOnly\n @SinceKotlin("1.3")\n\npublic inline fun <R, T>
Result<T>.map(transform: (value: T) -> R): Result<R> {\n     contract {\n         callsInPlace(transform,
InvocationKind.AT_MOST_ONCE)\n     }\n     return when {\n         isSuccess -> Result.success(transform(value as
T))\n         else -> Result(value)\n     }\n }\n\n/**\n * Returns the encapsulated result of the given [transform] function
applied to the encapsulated value\n * if this instance represents [success][Result.isSuccess] or the\n * original
encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n *\n * This function catches any [Throwable]
exception thrown by [transform] function and encapsulates it as a failure.\n *\n * See [map] for an alternative that
rethrows exceptions from `transform` function.\n *\n @InlineOnly\n @SinceKotlin("1.3")\n\npublic inline fun <R,
T> Result<T>.mapCatching(transform: (value: T) -> R): Result<R> {\n     return when {\n         isSuccess ->
runCatching
{ transform(value as T) }\n         else -> Result(value)\n     }\n }\n\n/**\n * Returns the encapsulated result of the
given [transform] function applied to the encapsulated [Throwable] exception\n * if this instance represents
[failure][Result.isFailure] or the\n * original encapsulated value if it is [success][Result.isSuccess].\n *\n * Note,
that this function rethrows any [Throwable] exception thrown by [transform] function.\n *\n * See [recoverCatching] for
an alternative that encapsulates exceptions.\n *\n @InlineOnly\n @SinceKotlin("1.3")\n\npublic inline fun <R, T :
R> Result<T>.recover(transform: (exception: Throwable) -> R): Result<R> {\n     contract {\n
callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\n     }\n     return when (val exception =
exceptionOrNull()) {\n         null -> this\n         else -> Result.success(transform(exception))\n     }\n }\n\n/**\n * Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable]
exception\n

```

\* if this instance represents [failure][Result.isFailure] or the\n \* original encapsulated value if it is [success][Result.isSuccess].\n \* This function catches any [Throwable] exception thrown by [transform] function and encapsulates it as a failure.\n \* See [recover] for an alternative that rethrows exceptions.\n

```

*^@InlineOnly^@SinceKotlin("1.3")^public inline fun <R, T : R> Result<T>.recoverCatching(transform:
(exception: Throwable) -> R): Result<R> {
    val value = value // workaround for inline classes BE bug
    return when (val exception = exceptionOrNull()) {
        null -> this
        else -> runCatching { transform(exception) }
    }
}

```

peek\ " onto value/exception and pipe\n\n\*\*\n \* Performs the given [action] on the encapsulated [Throwable] exception if this instance represents [failure][Result.isFailure].\n \* Returns the original `Result` unchanged.\n \*^@InlineOnly^@SinceKotlin("1.3")^public inline fun <T> Result<T>.onFailure(action: (exception: Throwable) -> Unit): Result<T> {
 contract {
 callsInPlace(action,
 InvocationKind.AT\_MOST\_ONCE)
 }
 exceptionOrNull()?.let { action(it) }
 return this
}

Performs the given [action] on the encapsulated value if this instance represents [success][Result.isSuccess].\n \* Returns the original `Result` unchanged.\n \*^@InlineOnly^@SinceKotlin("1.3")^public inline fun <T> Result<T>.onSuccess(action: (value: T) -> Unit): Result<T> {
 contract {
 callsInPlace(action,
 InvocationKind.AT\_MOST\_ONCE)
 }
 if (isSuccess) action(value as T)
 return this
}

-----  
--\n","/\*\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

```

*^@npackage kotlin.coroutines^nimport kotlin.coroutines.intrinsics.^nimport kotlin.internal.InlineOnly^

```

Interface representing  
a continuation after a suspension point that returns a value of type `T`.\n \*^@SinceKotlin("1.3")^public interface Continuation<in T> {
 /\*\*\n \* The context of the coroutine that corresponds to this continuation.\n \*/
 public val context: CoroutineContext
 /\*\*\n \* Resumes the execution of the corresponding coroutine passing a successful or failed [result] as the\n \* return value of the last suspension point.\n \*/
 public fun resumeWith(result: Result<T>)\n}

Classes and interfaces marked with this annotation are restricted when used as receivers for extension\n \* `suspend` functions. These `suspend` extensions can only invoke other member or extension `suspend` functions on this particular\n \* receiver and are restricted from calling arbitrary suspension functions.\n

```

*^@SinceKotlin("1.3")^@Target(AnnotationTarget.CLASS)^@Retention(AnnotationRetention.BINARY)^public annotation class RestrictsSuspension

```

Resumes  
the execution of the corresponding coroutine passing [value] as the return value of the last suspension point.\n \*^@SinceKotlin("1.3")^@InlineOnly^public inline fun <T> Continuation<T>.resume(value: T): Unit =\n resumeWith(Result.success(value))\n

Resumes the execution of the corresponding coroutine so that the [exception] is re-thrown right after the\n \* last suspension point.\n \*^@SinceKotlin("1.3")^@InlineOnly^public inline fun <T> Continuation<T>.resumeWithException(exception: Throwable): Unit =\n resumeWith(Result.failure(exception))\n

Creates a [Continuation] instance with the given [context] and implementation of [resumeWith] method.\n \*^@SinceKotlin("1.3")^@InlineOnly^public inline fun <T> Continuation(\n context: CoroutineContext,\n crossinline resumeWith: (Result<T>) -> Unit\n): Continuation<T> =\n object : Continuation<T> {\n override val context: CoroutineContext\n get() = context\n}\n

override fun  
resumeWith(result: Result<T>) =\n resumeWith(result)\n }

Creates a coroutine without a receiver and with result type [T].\n \* This function creates a new, fresh instance of suspendable computation every time it is invoked.\n \* To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\n \* The [completion] continuation is invoked when the coroutine completes with a result or an exception.\n \* Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].\n \*^@SinceKotlin("1.3")^@Suppress("UNCHECKED\_CAST")^public fun <T> (suspend () -> T).createCoroutine(\n completion: Continuation<T>)\n: Continuation<Unit> =\n SafeContinuation(createCoroutineUnintercepted(completion).intercepted(), COROUTINE\_SUSPENDED)\n

Creates a coroutine with receiver type [R] and result type [T].\n \* This function creates a new, fresh instance of

suspendable computation

every time it is invoked.\n \* To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\n \* The [completion] continuation is invoked when the coroutine completes with a result or an exception.\n \* Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].\n \* Since Kotlin("1.3")\n @Suppress("UNCHECKED\_CAST")\n public fun <R, T> (suspend R.() -> T).createCoroutine(\n receiver: R,\n completion: Continuation<T>): Continuation<Unit> =\n SafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(),

COROUTINE\_SUSPENDED)\n\n \*\*\n \* Starts a coroutine without a receiver and with result type [T].\n \* This function creates and starts a new, fresh instance of suspendable computation every time it is invoked.\n \* The [completion] continuation is invoked when the coroutine completes with a result or an exception.\n

\*\n @SinceKotlin("1.3")\n @Suppress("UNCHECKED\_CAST")\n public

fun <T> (suspend () -> T).startCoroutine(\n completion: Continuation<T>) {\n

createCoroutineUnintercepted(completion).intercepted().resume(Unit)\n}\n\n \*\*\n \* Starts a coroutine with receiver type [R] and result type [T].\n \* This function creates and starts a new, fresh instance of suspendable computation every time it is invoked.\n \* The [completion] continuation is invoked when the coroutine completes with a result or an exception.\n

\*\n @SinceKotlin("1.3")\n @Suppress("UNCHECKED\_CAST")\n public fun <R, T> (suspend R.() -> T).startCoroutine(\n receiver: R,\n completion: Continuation<T>) {\n

createCoroutineUnintercepted(receiver, completion).intercepted().resume(Unit)\n}\n\n \*\*\n \* Obtains the current continuation instance inside suspend functions and suspends\n \* the currently running coroutine.\n \* In this function both [Continuation.resume] and [Continuation.resumeWithException] can be used either synchronously in\n \* the same stack-frame

where the suspension function is run or asynchronously later in the same thread or\n \* from a different thread of execution. Subsequent invocation of any resume function will produce an [IllegalStateException].\n

\*\n @SinceKotlin("1.3")\n @InlineOnly\n public suspend inline fun <T> suspendCoroutine(crossinline block:

(Continuation<T> -> Unit): T =\n suspendCoroutineUninterceptedOrReturn { c: Continuation<T> ->\n val safe = SafeContinuation(c.intercepted())\n block(safe)\n safe.getOrThrow()\n }\n\n \*\*\n \* Returns the context of the current coroutine.\n

\*\n @SinceKotlin("1.3")\n @Suppress("WRONG\_MODIFIER\_TARGET")\n @InlineOnly\n public suspend inline val coroutineContext: CoroutineContext\n get() {\n throw NotImplementedError("Implemented as intrinsic")\n }\n\n \*\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n

\* Use of this source code is governed by the Apache 2.0 license that can be found in

the license/LICENSE.txt file.\n \* \n\n package kotlin.coroutines.intrinsics\n\n import kotlin.coroutines.\*\n import

kotlin.internal.InlineOnly\n\n \*\*\n \* Starts an unintercepted coroutine without a receiver and with result type [T] and executes it until its first suspension.\n \* Returns the result of the coroutine or throws its exception if it does not suspend or [COROUTINE\_SUSPENDED] if it suspends.\n \* In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.\n \* The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might\n \* be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation\n \* context is established.\n \* This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended\n \* coroutine using a reference to the suspending

function.\n \* \n @SinceKotlin("1.3")\n @InlineOnly\n public actual inline fun <T> (suspend () ->

T).startCoroutineUninterceptedOrReturn(\n completion: Continuation<T>): Any? =

this.asDynamic()(completion, false)\n\n \*\*\n \* Starts an unintercepted coroutine with receiver type [R] and result type [T] and executes it until its first suspension.\n \* Returns the result of the coroutine or throws its exception if it does not suspend or [COROUTINE\_SUSPENDED] if it suspends.\n \* In the latter case, the [completion]

continuation is invoked when the coroutine completes with a result or an exception.\n \* The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might\n \* be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation\n \* context is

established.

\* This function is designed to be used from inside of `[suspendCoroutineUninterceptedOrReturn]` to resume the execution of the suspended coroutine using a reference to the suspending function.

```

*^@SinceKotlin("1.3")
@InlineOnly
public actual inline fun <R, T> (suspend R.() -> T).startCoroutineUninterceptedOrReturn(
    receiver: R,
    completion: Continuation<T>): Any? =
    this.asDynamic()(receiver, completion, false)

```

\* Creates unintercepted coroutine without receiver and with result type `[T]`.

\* This function creates a new, fresh instance of suspendable computation every time it is invoked.

\* To start executing the created coroutine, invoke `resume(Unit)` on the returned `[Continuation]` instance.

\* The `[completion]` continuation is invoked when coroutine completes with result or exception.

\* This function returns unintercepted continuation.

\* Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the `[ContinuationInterceptor]` that might be present in the completion's `[CoroutineContext]`.

\* It is the invoker's responsibility to ensure that a proper invocation context is established.

\* Note that `[completion]` of this function may get invoked in an arbitrary context.

\* `[Continuation.intercepted]` can be used to acquire the intercepted continuation.

\* Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of both the coroutine and `[completion]` happens in the invocation context established by `[ContinuationInterceptor]`.

\* Repeated invocation of any resume function on the resulting continuation corrupts the state machine of the coroutine and may result in arbitrary behaviour or exception.

```

*^@SinceKotlin("1.3")
public actual fun <T> (suspend () -> T).createCoroutineUnintercepted(
    completion: Continuation<T>): Continuation<Unit> =
    // Kotlin/JS suspend lambdas have an extra parameter `suspended`
    if (this.asDynamic().length == 2) {
        // When `suspended` is true the continuation is created, but not
        // executed
        this.asDynamic()(completion, true)
    } else {
        createCoroutineFromSuspendFunction(completion) {
            this.asDynamic()(completion)
        }
    }

```

\* Creates unintercepted coroutine with receiver type `[R]` and result type `[T]`.

\* This function creates a new, fresh instance of suspendable computation every time it is invoked.

\* To start executing the created coroutine, invoke `resume(Unit)` on the returned `[Continuation]` instance.

\* The `[completion]` continuation is invoked when coroutine completes with result or exception.

\* This function returns unintercepted continuation.

\* Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the `[ContinuationInterceptor]` that might be present in the completion's `[CoroutineContext]`.

\* It is the invoker's responsibility to ensure that a proper invocation context is established.

\* Note that `[completion]` of this function may get invoked in an arbitrary context.

\* `[Continuation.intercepted]` can be used to acquire the intercepted continuation.

\* Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of both the coroutine and `[completion]` happens in the invocation context established by `[ContinuationInterceptor]`.

\* Repeated invocation of any resume function on the resulting continuation corrupts the state machine of the coroutine and may result in arbitrary behaviour or exception.

```

*^@SinceKotlin("1.3")
public actual fun <R, T> (suspend R.() -> T).createCoroutineUnintercepted(
    receiver: R,
    completion: Continuation<T>): Continuation<Unit> =
    // Kotlin/JS suspend lambdas have an extra parameter `suspended`
    if (this.asDynamic().length == 3) {
        // When `suspended` is true the continuation is created, but not executed
        this.asDynamic()(receiver, completion, true)
    } else {
        createCoroutineFromSuspendFunction(completion) {
            this.asDynamic()(receiver, completion)
        }
    }

```

\* Intercepts this continuation with `[ContinuationInterceptor]`.

\* This function shall be used on the immediate result of `[createCoroutineUnintercepted]` or `[suspendCoroutineUninterceptedOrReturn]`, in which case it checks for `[ContinuationInterceptor]` in the continuation's `[context][Continuation.context]`, invokes `[ContinuationInterceptor.interceptContinuation]`, caches and returns the result.

\* If this function is invoked on other `[Continuation]` instances it returns `this` continuation unchanged.

```

*^@SinceKotlin("1.3")
public actual fun <T> Continuation<T>.intercepted(): Continuation<T> =
    (this as? CoroutineImpl)?.intercepted() ?:
    this

```

private inline fun <T> createCoroutineFromSuspendFunction(
 completion: Continuation<T>,



found in the license/LICENSE.txt file.

```

package kotlin.text

/**
 * Returns a string representation of this [Long] value in the specified [radix].
 * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.
 */
@SinceKotlin("1.2")
public actual fun Long.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))

```

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```

package kotlin.collections

NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib

import kotlin.js.*
import kotlin.ranges.contains
import kotlin.ranges.reversed

/**
 * Reverses elements in the list in-place.
 */
public actual fun <T> MutableList<T>.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

```

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```

package kotlin.text

NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib

import kotlin.js.*

/**
 * Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.
 */
public actual fun CharSequence.elementAt(index: Int): Char {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, length: $length") }
}

```

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```

package kotlin.collections

NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib

import kotlin.js.*
import kotlin.ranges.contains
import kotlin.ranges.reversed

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@sample samples.collections.Collections.Elements.elementAt
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun UIntArray.elementAt(index: Int): UInt {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@sample samples.collections.Collections.Elements.elementAt
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun ULongArray.elementAt(index: Int): ULong {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@sample samples.collections.Collections.Elements.elementAt
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun UByteArray.elementAt(index: Int): UByte {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@sample samples.collections.Collections.Elements.elementAt
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun UShortArray.elementAt(index: Int): UShort {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns a [List] that wraps the original array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun UIntArray.asList(): List<UInt> {
    return object : AbstractList<UInt>(), RandomAccess {
        override val size: Int get() = this@asList.size
        override fun isEmpty(): Boolean = this@asList.isEmpty()
        override fun contains(element: UInt): Boolean = this@asList.contains(element)
        override fun get(index: Int): UInt {

```

```

AbstractList.checkElementIndex(index, size)\n        return this@asList[index]\n    }\n    override fun
indexOf(element: UInt): Int {\n        if ((element as Any?) !is UInt) return -1\n        return
this@asList.indexOf(element)\n    }\n    override fun lastIndexOf(element: UInt): Int {\n        if ((element as
Any?) !is UInt) return -1\n        return this@asList.lastIndexOf(element)\n    }\n}\n\n/**\n * Returns a
[List] that wraps the original array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
actual fun ULongArray.asList(): List<ULong> {\n    return object : AbstractList<ULong>(), RandomAccess {\n
override val size: Int get() = this@asList.size\n        override fun isEmpty(): Boolean = this@asList.isEmpty()\n
override fun contains(element: ULong): Boolean = this@asList.contains(element)\n        override fun get(index: Int):
ULong {\n            AbstractList.checkElementIndex(index, size)\n                return this@asList[index]\n            }\n
override fun indexOf(element: ULong): Int {\n                if ((element as Any?) !is ULong) return -1\n                return
this@asList.indexOf(element)\n            }\n            override fun lastIndexOf(element: ULong): Int {\n                if ((element
as Any?) !is ULong) return -1\n                return this@asList.lastIndexOf(element)\n            }\n        }\n}\n\n/**\n * Returns
a [List] that wraps the original array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual
fun UByteArray.asList():
List<UByte> {\n    return object : AbstractList<UByte>(), RandomAccess {\n        override val size: Int get() =
this@asList.size\n        override fun isEmpty(): Boolean = this@asList.isEmpty()\n        override fun
contains(element: UByte): Boolean = this@asList.contains(element)\n        override fun get(index: Int): UByte {\n
            AbstractList.checkElementIndex(index, size)\n                return this@asList[index]\n            }\n
override fun
indexOf(element: UByte): Int {\n                if ((element as Any?) !is UByte) return -1\n                return
this@asList.indexOf(element)\n            }\n            override fun lastIndexOf(element: UByte): Int {\n                if ((element
as Any?) !is UByte) return -1\n                return this@asList.lastIndexOf(element)\n            }\n        }\n}\n\n/**\n * Returns
a [List] that wraps the original array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual
fun UShortArray.asList(): List<UShort> {\n    return object : AbstractList<UShort>(),
RandomAccess {\n        override val size: Int get() = this@asList.size\n        override fun isEmpty(): Boolean =
this@asList.isEmpty()\n        override fun contains(element: UShort): Boolean = this@asList.contains(element)\n
        override fun get(index: Int): UShort {\n            AbstractList.checkElementIndex(index, size)\n                return
this@asList[index]\n            }\n            override fun indexOf(element: UShort): Int {\n                if ((element as Any?) !is
UShort) return -1\n                return this@asList.indexOf(element)\n            }\n            override fun lastIndexOf(element:
UShort): Int {\n                if ((element as Any?) !is UShort) return -1\n                return
this@asList.lastIndexOf(element)\n            }\n        }\n}\n}\n\n", "@file: Suppress("DEPRECATION")\npackage
jquery.ui\n\n//jquery UI\nimport jquery.JQuery\nimport kotlin.js.Json\n\n@Deprecated("Use declarations from
'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")\npublic
inline fun JQuery.buttonset(): JQuery = asDynamic().buttonset()\n\n@Deprecated("Use declarations from
'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")\npublic inline fun JQuery.dialog():
JQuery = asDynamic().dialog()\n\n@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-
externals/kotlin-js-jquery' package instead.")\npublic inline fun JQuery.dialog(params: Json): JQuery =
asDynamic().dialog(params)\n\n@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-
externals/kotlin-js-jquery' package instead.")\npublic inline fun JQuery.dialog(mode: String, param: String): Any? =
asDynamic().dialog(mode, param)\n\n@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-
externals/kotlin-js-jquery' package instead.")\npublic inline fun JQuery.dialog(mode: String): JQuery =
asDynamic().dialog(mode)\n\n@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-
js-jquery' package instead.")\npublic
inline fun JQuery.dialog(mode: String, param: String, value: Any?): JQuery = asDynamic().dialog(mode, param,
value)\n\n@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package
instead.")\npublic inline fun JQuery.button(): JQuery = asDynamic().button()\n\n@Deprecated("Use declarations
from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")\npublic inline fun
JQuery.accordion(): JQuery = asDynamic().accordion()\n\n@Deprecated("Use declarations from
'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")\npublic inline fun

```

```

jQuery.draggable(params: Jjson): JQuery = asDynamic().draggable(params)\n\n@Deprecated(\n\n"Use declarations
from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\n\n")\n\npublic inline fun
jQuery.selectable(): JQuery = asDynamic().selectable()\n\n", /*\n\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n
*/\n\n\npackage kotlin.js\n\n\nimport kotlin.annotation.AnnotationTarget.*\n\n\n@Target(CLASS, FUNCTION,
PROPERTY, CONSTRUCTOR, VALUE_PARAMETER, PROPERTY_GETTER,
PROPERTY_SETTER)\n\n@Deprecated(\n\n"Use `external` modifier instead", level =
DeprecationLevel.ERROR)\n\n\npublic annotation class native(public val name: String =
"\n\n")\n\n\n@Target(FUNCTION)\n\n@Deprecated(\n\n"Use inline extension function with body using dynamic\n\n")\n\n\npublic
annotation class nativeGetter\n\n\n@Target(FUNCTION)\n\n@Deprecated(\n\n"Use inline extension function with body
using dynamic\n\n")\n\n\npublic annotation class nativeSetter\n\n\n@Target(FUNCTION)\n\n@Deprecated(\n\n"Use inline
extension function with body using dynamic\n\n")\n\n\npublic annotation class nativeInvoke\n\n\n@Target(CLASS,
FUNCTION, PROPERTY)\n\n\ninternal annotation class library(public val name: String =
"\n\n")\n\n\n@Target(CLASS)\n\n\ninternal annotation class marker\n\n\n/**\n\n * Gives a declaration
(a function, a property or a class) specific name in JavaScript.\n\n * This may be useful in the following cases:\n\n
*\n\n * * There are two functions for which the compiler gives same name in JavaScript, you can\n\n * mark one
with `@JsName(...)` to prevent the compiler from reporting error.\n\n * * You are writing a JavaScript library in
Kotlin. The compiler produces mangled names\n\n * for functions with parameters, which is unnatural for usual
JavaScript developer.\n\n * You can put `@JsName(...)` on functions you want to be available from JavaScript.\n\n
*\n\n * For some reason you want to rename declaration, e.g. there's common term in JavaScript\n\n * for a concept
provided by the declaration, which is uncommon in Kotlin.\n\n * Example:\n\n * ``` kotlin\n\n * class Person(val
name: String) {\n\n * fun hello() {\n\n * println("Hello $name!")\n\n * }\n\n * }\n\n * }\n\n * @JsName("helloWithGreeting")\n\n * fun hello(greeting: String) {\n\n * println("$greeting
$name!")\n\n * }\n\n * }\n\n * }\n\n * @property name the name which compiler uses both for declaration itself
and for all references to the declaration.\n\n * It's required to denote a valid JavaScript identifier.\n\n *\n\n
*/\n\n\n@Retention(AnnotationRetention.BINARY)\n\n@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR,
PROPERTY_GETTER, PROPERTY_SETTER)\n\n\npublic actual annotation class JsName(actual val name:
String)\n\n\n/**\n\n * Denotes an `external` declaration that must be imported from native JavaScript library.\n\n *\n\n
The compiler produces the code relevant for the target module system, for example, in case of CommonJS,\n\n * it
will import the declaration via the `require(...)` function.\n\n *\n\n The annotation can be used on top-level external
declarations (classes, properties, functions) and files.\n\n *\n\n In case of file (which can't be `external`) the following rule
applies: all the declarations in\n\n * the file must be `external`. By applying `@JsModule(...)` on a file you tell
the compiler to import a JavaScript object\n\n * that contain all the declarations from the file.\n\n *\n\n Example:\n\n
*\n\n * ``` kotlin\n\n * @JsModule("jquery")\n\n * external abstract class JQuery() {\n\n * // some declarations here\n\n * }\n\n
*\n\n * @JsModule("jquery")\n\n * external fun JQuery(element: Element): JQuery\n\n * ```\n\n *\n\n *\n\n @property import
name of a module to import declaration from.\n\n * It is not interpreted by the Kotlin compiler, it's passed as is
directly to the target module system.\n\n *\n\n @see JsNonModule\n\n
*/\n\n\n@Retention(AnnotationRetention.BINARY)\n\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\n\n\npublic
annotation class JsModule(val import: String)\n\n\n/**\n\n * Denotes an `external` declaration that can be used without
module system.\n\n *\n\n By default, an `external` declaration is available regardless your target module system.\n\n
*\n\n However, by applying [JsModule] annotation you can make a declaration unavailable to *plain* module system.\n\n
*\n\n Some JavaScript libraries
are distributed both as a standalone downloadable piece of JavaScript and as a module available\n\n * as an npm
package.\n\n * To tell the Kotlin compiler to accept both cases, you can augment [JsModule] with the
`@JsNonModule` annotation.\n\n *\n\n For example:\n\n * ``` kotlin\n\n * @JsModule("jquery")\n\n * }\n\n
*\n\n * @JsNonModule\n\n * @JsName("$")\n\n * external abstract class JQuery() {\n\n * // some declarations here\n\n * }\n\n
*\n\n * @JsModule("jquery")\n\n * @JsNonModule\n\n * @JsName("$")\n\n * external fun JQuery(element: Element):

```

```

jQuery\n * ``\n *\n * @see JsModule\n *^\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS,
PROPERTY, FUNCTION, FILE)\npublic annotation class JsNonModule\n\n/**\n * Adds prefix to `external`
declarations in a source file.\n *\n * JavaScript does not have concept of packages (namespaces). They are usually
emulated by nested objects.\n *\n * The compiler turns references to `external` declarations either to plain unprefixd
names (in case of *plain* modules)\n * or
to plain imports.\n *\n * However, if a JavaScript library provides its declarations in packages, you won't be satisfied
with this.\n *\n * You can tell the compiler to generate additional prefix before references to `external` declarations
using the `@JsQualifier(...)`\n * annotation.\n *\n * Note that a file marked with the `@JsQualifier(...)` annotation
can't contain non-`external` declarations.\n *\n * Example:\n *\n * ``\n *\n * @file:JsQualifier("my.jsPackageName")\n * package some.kotlinPackage\n *\n * external fun foo(x: Int)\n *\n * external fun bar(): String\n * ``\n *\n * @property value the qualifier to add to the declarations in the generated
code.\n *
It must be a sequence of valid JavaScript identifiers separated by the `.` character.\n *
Examples of valid qualifiers are: `foo`, `bar.Baz`, `_.$.f`.\n *\n * @see JsModule\n
*^\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.FILE)\npublic annotation class
JsQualifier(val value: String)\n\n/**\n
* Marks experimental JS export annotations.\n *\n * Note that behaviour of these annotations will likely be changed
in the future.\n *\n * Usages of such annotations will be reported as warnings unless an explicit opt-in with\n * the
[OptIn] annotation, e.g. `@OptIn(ExperimentalJsExport::class)`,\n * or with the `-Xopt-
in=kotlin.js.ExperimentalJsExport` compiler option is given.\n
*^\n@Suppress("DEPRECATION")\n@Experimental(level =
Experimental.Level.WARNING)\n@RequiresOptIn(level =
RequiresOptIn.Level.WARNING)\n@SinceKotlin("1.3")\npublic annotation class ExperimentalJsExport\n\n/**\n
* Exports top-level declaration.\n *\n * Used in future IR-based backend.\n *\n * Has no effect in current JS backend.\n
*^\n@ExperimentalJsExport\n@SinceKotlin("1.3")\n@Retention(AnnotationRetention.BINARY)\n@Target(CLA
SS, PROPERTY, FUNCTION, FILE)\npublic annotation class JsExport\n", /*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.jvm\n\n// these are used in common generated code in stdlib\n\n// TODO: find how to deprecate these
ones\n\n@Target(AnnotationTarget.FIELD)\n@Retention(AnnotationRetention.SOURCE)\npublic actual
annotation class Volatile\n\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY_GETTER,
AnnotationTarget.PROPERTY_SETTER)\n@Retention(AnnotationRetention.SOURCE)\npublic actual annotation
class Synchronized\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the
[MutableCollection] interface.\n *\n * @param E the type of elements contained in the collection. The collection is
invariant on its element type.\n */\n\npublic actual abstract
class AbstractMutableCollection<E> protected actual constructor() : AbstractCollection<E>(),
MutableCollection<E> {\n\n actual abstract override fun add(element: E): Boolean\n\n actual override fun
remove(element: E): Boolean {\n val iterator = iterator()\n while (iterator.hasNext()) {\n if
(iterator.next() == element) {\n iterator.remove()\n return true\n }\n }\n return
false\n }\n\n actual override fun addAll(elements: Collection<E>): Boolean {\n var modified = false\n
for (element in elements) {\n if (add(element)) modified = true\n }\n return modified\n }\n\n actual override fun removeAll(elements: Collection<E>): Boolean = (this as MutableIterable<E>).removeAll { it in
elements }\n\n actual override fun retainAll(elements: Collection<E>): Boolean = (this as
MutableIterable<E>).removeAll { it !in elements }\n\n actual override fun clear(): Unit
{\n val iterator = this.iterator()\n while (iterator.hasNext()) {\n iterator.next()\n
iterator.remove()\n }\n }\n\n @JsName("toJSON")\n open fun toJSON(): Any =
this.toArray()\n}\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language

```



```

val list: AbstractMutableList<E>, private val fromIndex: Int, toIndex: Int) : AbstractMutableList<E>(),
RandomAccess {
    private var _size: Int = 0
    init {
        AbstractList.checkRangeIndexes(fromIndex, toIndex, list.size)
        this._size = toIndex - fromIndex
    }
    override fun add(index: Int, element: E) {
        AbstractList.checkPositionIndex(index, _size)
        list.add(fromIndex + index, element)
        _size++
    }
    override fun get(index: Int): E {
        AbstractList.checkElementIndex(index, _size)
        return list[fromIndex + index]
    }
    override fun removeAt(index: Int): E {
        AbstractList.checkElementIndex(index, _size)
        val result = list.removeAt(fromIndex + index)
        _size--
        return result
    }
    override fun set(index: Int, element: E): E {
        AbstractList.checkElementIndex(index, _size)
        return list.set(fromIndex + index, element)
    }
    override val size: Int get() = _size
}

/*
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Programming Language contributors.
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code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 * Based on
GWT AbstractMap
 * Copyright 2007 Google Inc.
 * Provides a skeletal
implementation of the [MutableMap] interface.
 * The implementor is required to implement [entries] property,
which should return mutable set of map entries, and [put] function.
 * @param K the type of map keys. The
map is invariant on its key type.
 * @param V the type of map values. The map is invariant on its value type.
 * Actual abstract class AbstractMutableMap<K, V> protected actual constructor() : AbstractMap<K, V>(),
MutableMap<K, V> {
    /**
     * A mutable [Map.Entry] shared by several [Map] implementations.
     * Internal open class SimpleEntry<K, V>(override val key: K, value: V) : MutableMap.MutableEntry<K, V> {
        constructor(entry: Map.Entry<K, V>) : this(entry.key, entry.value)
        private var
        _value = value
        override val value: V get() = _value
        override fun setValue(newValue: V): V {
            val oldValue = this._value
            this._value = newValue
            return oldValue
        }
        override fun
        hashCode(): Int = entryHashCode(this)
        override fun toString(): String = entryToString(this)
        override
        fun equals(other: Any?): Boolean = entryEquals(this, other)
        actual override fun clear() {
            entries.clear()
        }
        private var _keys: MutableSet<K>? = null
        actual override val keys: MutableSet<K>
        get() {
            if (_keys == null) {
                _keys = object : AbstractMutableSet<K>() {
                    override fun add(element: K): Boolean = throw UnsupportedOperationException("Add is not supported on
keys")
                    override fun clear() {
                        this@AbstractMutableMap.clear()
                    }
                }
            }
            return _keys
        }
        override
        operator fun contains(element: K): Boolean = containsKey(element)
        override operator fun iterator():
        MutableIterator<K> {
            val entryIterator = entries.iterator()
            return object :
            MutableIterator<K> {
                override fun hasNext(): Boolean = entryIterator.hasNext()
                override fun next(): K = entryIterator.next().key
                override fun remove() =
                entryIterator.remove()
            }
            override fun remove(element: K): Boolean {
                if (containsKey(element)) {
                    this@AbstractMutableMap.remove(element)
                }
                return true
            }
            return false
        }
        override val
        size: Int get() = this@AbstractMutableMap.size
    }
    actual abstract override fun put(key: K, value: V): V?
    actual override fun
    putAll(from: Map<out K, V>) {
        for ((key, value) in from) {
            put(key, value)
        }
    }
    private var _values: MutableCollection<V>? = null
    actual override val values: MutableCollection<V>
    get() {
        if (_values == null) {
            _values = object : AbstractMutableCollection<V>() {
                override fun add(element: V): Boolean = throw UnsupportedOperationException("Add is not supported on
values")
                override fun clear() = this@AbstractMutableMap.clear()
                override operator
                fun contains(element: V): Boolean = containsValue(element)
                override operator fun iterator():
                MutableIterator<V> {
                    val entryIterator = entries.iterator()
                    return object :
                    MutableIterator<V> {

```

```

        override fun hasNext(): Boolean = entryIterator.hasNext()\n
entryIterator.next().value\n
        override fun remove() = entryIterator.remove()\n
    }\n\n
    override val size: Int get() = this@AbstractMutableMap.size\n
    // TODO:
should we implement them this way? Currently it's unspecified in JVM\n
    override fun equals(other:
Any?): Boolean {\n
        if (this === other) return true\n
        if (other !is Collection<*>) return
false\n
        return AbstractList.orderedEquals(this, other)\n
    }\n\n
    override fun
hashCode(): Int = AbstractList.orderedHashCode(this)\n
    }\n
    }\n
    return _values!!\n
    }\n\n
actual override fun remove(key: K): V? {\n
    val iter = entries.iterator()\n
    while (iter.hasNext()) {\n
        val entry = iter.next()\n
        val k = entry.key\n
        if (key == k) {\n
            val value = entry.value\n
            iter.remove()\n
            return value\n
        }\n
    }\n
    return null\n
}\n\n
}"/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\npackage kotlin.collections\n\n*/\n * Provides a skeletal implementation of the [MutableSet] interface.\n * \n *
@param E the type of elements contained in the set. The set is invariant on its element type.\n * \npublic actual
abstract class AbstractMutableSet<E> protected actual constructor() : AbstractMutableCollection<E>(),
MutableSet<E> {\n\n
    /**\n
     * Compares this set with another set instance with the unordered structural
equality.\n
     * \n
     * @return `true`, if [other] instance
is a [Set] of the same size, all elements of which are contained in this set.\n
     * \n
    override fun equals(other:
Any?): Boolean {\n
        if (other === this) return true\n
        if (other !is Set<*>) return false\n
        return
AbstractSet.setEquals(this, other)\n
    }\n\n
    /**\n
     * Returns the hash code value for this set.\n
     * \n
    override
fun hashCode(): Int = AbstractSet.unorderedHashCode(this)\n\n
}"/\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n
*/\npackage kotlin.collections\n\n*/\n * Provides a [MutableList]
implementation, which uses a resizable array as its backing storage.\n
*/\n * This implementation doesn't provide a
way to manage capacity, as backing JS array is resizable itself.\n
*/\n * There is no speed advantage to pre-allocating
array sizes in JavaScript, so this implementation does
not include any of the\n
*/\n * capacity and "growth increment" concepts.\n
*/\npublic actual open class ArrayList<E>
internal constructor(private var array: Array<Any?>) : AbstractMutableList<E>(), MutableList<E>, RandomAccess
{\n\n
    /**\n
     * Creates an empty [ArrayList].\n
     * \n
    public actual constructor() : this(emptyArray()) {\n\n
    /**\n
     * Creates an empty [ArrayList].\n
     * \n
    @param initialCapacity initial capacity (ignored)\n
     * \n
    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n
    public actual
constructor(initialCapacity: Int = 0) : this(emptyArray()) {\n\n
    /**\n
     * Creates an [ArrayList] filled from the
[elements] collection.\n
     * \n
    public actual constructor(elements: Collection<E>) :
this(elements.toArray<Any?>()) {\n\n
    /**\n
     * Does nothing in this ArrayList implementation.\n
     * \n
    public
actual fun trimToSize() {\n\n
    /**\n
     * Does nothing in this ArrayList implementation.\n
     * \n
    public actual fun
ensureCapacity(minCapacity: Int)
{\n\n
    actual override val size: Int get() = array.size\n
    @Suppress("UNCHECKED_CAST")\n
    actual
override fun get(index: Int): E = array[rangeCheck(index)] as E\n
    actual override fun set(index: Int, element: E): E
{\n
        rangeCheck(index)\n
        @Suppress("UNCHECKED_CAST")\n
        return array[index].apply {
array[index] = element } as E\n
    }\n\n
    actual override fun add(element: E): Boolean {\n
array.asDynamic().push(element)\n
        modCount++\n
        return true\n
    }\n\n
    actual override fun add(index:
Int, element: E): Unit {\n
        array.asDynamic().splice(insertionRangeCheck(index), 0, element)\n
        modCount++\n
    }\n\n
    actual override fun addAll(elements: Collection<E>): Boolean {\n
        if
(elements.isEmpty()) return false\n
        array += elements.toArray<Any?>()\n
        modCount++\n
        return true\n
    }\n\n
    actual override fun addAll(index: Int, elements: Collection<E>): Boolean {\n
insertionRangeCheck(index)\n\n
        if (index == size) return addAll(elements)\n
        if (elements.isEmpty()) return false\n
        when (index) {\n
            size -> return addAll(elements)\n
            0 -> array = elements.toArray<Any?>() + array\n
            else ->

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array = array.copyOfRange(0, index).asDynamic().concat(elements.toArray<Any?>(),
array.copyOfRange(index, size))\n    }\n\n    modCount++\n    return true\n    }\n\n    actual override fun
removeAt(index: Int): E {\n    rangeCheck(index)\n    modCount++\n    return if (index == lastIndex)\n
array.asDynamic().pop()\n    else\n    array.asDynamic().splice(index, 1)[0]\n    }\n\n    actual override fun
remove(element: E): Boolean {\n    for (index in array.indices) {\n    if (array[index] == element) {\n
array.asDynamic().splice(index, 1)\n    modCount++\n    return true\n    }\n    }\n    return
false\n    }\n\n
    override fun removeRange(fromIndex: Int, toIndex: Int) {\n    modCount++\n
array.asDynamic().splice(fromIndex, toIndex - fromIndex)\n    }\n\n    actual override fun clear() {\n    array =
emptyArray()\n    modCount++\n    }\n\n\n    actual override fun indexOf(element: E): Int =
array.indexOf(element)\n\n    actual override fun lastIndexOf(element: E): Int = array.lastIndexOf(element)\n\n
override fun toString() = arrayToString(array)\n    override fun toArray(): Array<Any?> =
js("[ ]").slice.call(array)\n\n\n    private fun rangeCheck(index: Int) = index.apply {\n
AbstractList.checkElementIndex(index, size)\n    }\n\n    private fun insertionRangeCheck(index: Int) = index.apply
{\n    AbstractList.checkPositionIndex(index, size)\n    }\n    }", /*\n * Copyright 2010-2019 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.collections\n\ninternal fun <T> sortArrayWith(array: Array<out T>, comparison: (T, T) -> Int) {\n    if
(getStableSortingIsSupported()) {\n    array.asDynamic().sort(comparison)\n    } else {\n
mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, Comparator(comparison))\n    }\n}\n\n\ninternal fun
<T> sortArrayWith(array: Array<out T>, comparator: Comparator<in T>) {\n    if (getStableSortingIsSupported())
{\n    val comparison = { a: T, b: T -> comparator.compare(a, b) }\n    array.asDynamic().sort(comparison)\n
} else {\n    mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, comparator)\n    }\n}\n\n\ninternal fun
<T : Comparable<T>> sortArray(array: Array<out T>) {\n    if (getStableSortingIsSupported()) {\n    val
comparison = { a: T, b: T -> a.compareTo(b) }\n    array.asDynamic().sort(comparison)\n    } else {\n
mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, naturalOrder())\n    }\n}\n\n\nprivate
var _stableSortingIsSupported: Boolean? = null\n\nprivate fun getStableSortingIsSupported(): Boolean {\n
_stableSortingIsSupported?.let { return it }\n    _stableSortingIsSupported = false\n\n    val array =
js("[ ]").unsafeCast<Array<Int>>()\n    // known implementations may use stable sort for arrays of up to 512
elements\n    // so we create slightly more elements to test stability\n    for (index in 0 until 600)
array.asDynamic().push(index)\n    val comparison = { a: Int, b: Int -> (a and 3) - (b and 3) }\n
array.asDynamic().sort(comparison)\n    for (index in 1 until array.size) {\n    val a = array[index - 1]\n    val b
= array[index]\n    if ((a and 3) == (b and 3) && a >= b) return false\n    }\n    _stableSortingIsSupported = true\n
return true\n}\n\n\nprivate fun <T> mergeSort(array: Array<T>, start: Int, endInclusive: Int, comparator:
Comparator<in T>) {\n    val buffer = arrayOfNulls<Any?>(array.size).unsafeCast<Array<T>>()\n    val result =
mergeSort(array,
buffer, start, endInclusive, comparator)\n    if (result != array) {\n    result.forEachIndexed { i, v -> array[i] = v
}\n    }\n}\n\n\n// Both start and end are inclusive indices.\n\nprivate fun <T> mergeSort(array: Array<T>, buffer:
Array<T>, start: Int, end: Int, comparator: Comparator<in T>): Array<T> {\n    if (start == end) {\n    return
array\n    }\n\n    val median = (start + end) / 2\n    val left = mergeSort(array, buffer, start, median, comparator)\n
val right = mergeSort(array, buffer, median + 1, end, comparator)\n\n    val target = if (left === buffer) array else
buffer\n\n    // Merge.\n    var leftIndex = start\n    var rightIndex = median + 1\n    for (i in start..end) {\n    when
{\n    leftIndex <= median && rightIndex <= end -> {\n    val leftValue = left[leftIndex]\n    val
rightValue = right[rightIndex]\n    if (comparator.compare(leftValue, rightValue) <= 0) {\n
target[i] = leftValue\n
leftIndex++\n    } else {\n    target[i] = rightValue\n    rightIndex++\n
}\n    }\n    leftIndex <= median -> {\n    target[i] = left[leftIndex]\n    leftIndex++\n
}\n    else /* rightIndex <= end */ -> {\n    target[i] = right[rightIndex]\n    rightIndex++\n
}

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Unit // TODO: Fix KT-31506\n    }\n    }\n    }\n    return target\n}", /*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.collections\n\n@UseExperimental(ExperimentalUnsignedTypes::class)\n@SinceKotlin("1.3")\n@kotlin.js
.JsName("contentDeepHashCodeImpl")\ninternal fun <T> Array<out T>.contentDeepHashCodeImpl(): Int {\n
var result = 1\n    for (element
in this) {\n        val elementHash = when {\n            element == null -> 0\n            isArrayish(element) ->
(element.unsafeCast<Array<*>>()).contentDeepHashCodeImpl()\n            element is UByteArray ->
element.contentHashCode()\n            element is UShortArray -> element.contentHashCode()\n            element is
UIntArray -> element.contentHashCode()\n            element is ULongArray -> element.contentHashCode()\n            else
-> element.hashCode()\n        }\n        result = 31 * result + elementHash\n    }\n    return
result\n}", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.collections\n\ninternal interface EqualityComparator {\n    /**\n     * Subclasses must override
to return a value indicating\n     * whether or not two keys or values are equal.\n
*/\n    abstract fun equals(value1: Any?, value2: Any?): Boolean\n\n    /**\n     * Subclasses must override to
return the hash code of a given key.\n     */\n    abstract fun getHashCode(value: Any?): Int\n\n    object HashCode
: EqualityComparator {\n        override fun equals(value1: Any?, value2: Any?): Boolean = value1 == value2\n
        override fun getHashCode(value: Any?): Int = value?.hashCode() ?: 0\n    }\n}", /*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\nimport
kotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table based implementation of the [MutableMap]
interface.\n * This implementation makes no guarantees regarding the order of enumeration of [keys], [values]
and [entries] collections.\n
*/\n\npublic actual open class HashMap<K, V> : AbstractMutableMap<K, V>, MutableMap<K, V> {\n\n    private
inner class EntrySet : AbstractMutableSet<MutableEntry<K, V>>() {\n\n        override fun add(element:
MutableEntry<K, V>): Boolean = throw UnsupportedOperationException("Add is not supported on entries")\n
        override fun clear() {\n            this@HashMap.clear()\n        }\n\n        override operator fun
contains(element: MutableEntry<K, V>): Boolean = containsEntry(element)\n\n        override operator fun
iterator(): MutableIterator<MutableEntry<K, V>> = internalMap.iterator()\n\n        override fun remove(element:
MutableEntry<K, V>): Boolean {\n            if (contains(element)) {\n
                this@HashMap.remove(element.key)\n                return true\n            }\n            return
false\n        }\n\n        override
val size: Int get() = this@HashMap.size\n    }\n\n    /**\n     * Internal implementation of the map: either string-
based or hashcode-based.\n
*/\n\n    private val internalMap: InternalMap<K, V>\n\n    private val equality: EqualityComparator\n\n    internal
constructor(internalMap: InternalMap<K, V>) : super() {\n        this.internalMap = internalMap\n        this.equality =
internalMap.equality\n    }\n\n    /**\n     * Constructs an empty [HashMap] instance.\n     */\n    actual constructor()
: this(InternalHashCodeMap(EqualityComparator.HashCode))\n\n    /**\n     * Constructs an empty [HashMap]
instance.\n     */\n    @param initialCapacity the initial capacity (ignored)\n    @param loadFactor the load
factor (ignored)\n    @throws IllegalArgumentException if the initial capacity or load factor are negative\n
*/\n    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n    actual
constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : this() {\n        // This implementation of HashMap has no
need of load factors or capacities.\n        require(initialCapacity >= 0) {\n            "Negative initial capacity: $initialCapacity"\n        }\n        require(loadFactor >= 0) { "Non-positive load factor:
$loadFactor"\n        }\n    }\n\n    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n    /**\n
     * Constructs an instance of [HashMap] filled with the contents of the specified [original] map.\n     */\n    actual
constructor(original: Map<out K, V>) : this() {\n        this.putAll(original)\n    }\n\n    actual override fun
clear() {\n

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    internalMap.clear()\n//      structureChanged(this)\n    }\n\n    actual override fun containsKey(key: K): Boolean
= internalMap.containsKey()\n\n    actual override fun containsValue(value: V): Boolean = internalMap.any {
equality.equals(it.value, value) }\n\n    private var _entries: MutableSet<MutableMap.MutableEntry<K, V>>? =
null\n    actual override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n        get() {\n        if
(_entries == null) {\n            _entries = createEntrySet()\n        }\n        return _entries!!\n    }\n\n    protected open fun createEntrySet():
MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n    actual override operator fun get(key: K): V? =
internalMap.get(key)\n\n    actual override fun put(key: K, value: V): V? = internalMap.put(key, value)\n\n    actual
override fun remove(key: K): V? = internalMap.remove(key)\n\n    actual override val size: Int get() =
internalMap.size\n}\n\n/**\n * Constructs the specialized implementation of [HashMap] with [String] keys, which
stores the keys as properties of\n * JS object without hashing them.\n */\npublic fun <V> stringMapOf(vararg pairs:
Pair<String, V>): HashMap<String, V> {\n    return HashMap<String,
V>(InternalStringMap(EqualityComparator.HashCode)).apply { putAll(pairs) }\n},"/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt
file.\n */\n\n * Based on GWT HashSet\n * Copyright 2008 Google Inc.\n */\n\npackage
kotlin.collections\n\n/**\n * The implementation of the [MutableSet] interface, backed by a [HashMap] instance.\n
*/\n\npublic actual open class HashSet<E> : AbstractMutableSet<E>, MutableSet<E> {\n\n    private val map:
HashMap<E, Any>\n\n    /**\n     * Constructs a new empty [HashSet].\n     */\n\n    actual constructor() {\n        map
= HashMap<E, Any>()\n    }\n\n    /**\n     * Constructs a new [HashSet] filled with the elements of the specified
collection.\n     */\n\n    actual constructor(elements: Collection<E>) {\n        map = HashMap<E,
Any>(elements.size)\n        addAll(elements)\n    }\n\n    /**\n     * Constructs a new empty [HashSet].\n     */\n
\n    @param initialCapacity the initial capacity (ignored)\n    * @param loadFactor the load factor (ignored)\n
\n    * @throws IllegalArgumentException if the initial capacity or load factor are negative\n    */\n
\n    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n
\n    actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) {\n        map = HashMap<E,
Any>(initialCapacity, loadFactor)\n    }\n\n    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n
\n    /**\n     * Protected constructor to specify the underlying map. This is used by\n     * LinkedHashSet.\n     */
\n    @param map underlying map to use.\n     */\n\n    internal constructor(map: HashMap<E, Any>) {\n        this.map =
map\n    }\n\n    actual override fun add(element: E): Boolean {\n        val old = map.put(element, this)\n        return
old == null\n    }\n\n    actual override fun clear() {\n        map.clear()\n    }\n\n//    public override fun clone(): Any
{\n//        return HashSet<E>(this)\n//    }\n\n    actual override operator fun contains(element: E): Boolean =
map.containsKey(element)\n\n    actual override fun isEmpty(): Boolean = map.isEmpty()\n\n    actual override fun
iterator(): MutableIterator<E>
= map.keys.iterator()\n\n    actual override fun remove(element: E): Boolean = map.remove(element) != null\n\n
\n    actual override val size: Int get() = map.size\n}\n\n/**\n * Creates a new instance of the specialized
implementation of [HashSet] with the specified [String] elements,\n * which elements the keys as properties of JS
object without hashing them.\n */\npublic fun stringSetOf(vararg elements: String): HashSet<String> {\n    return
HashSet(stringMapOf<Any>()).apply { addAll(elements) }\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n * Based on GWT InternalHashMap\n * Copyright
2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport
kotlin.collections.MutableMap.MutableEntry\nimport kotlin.collections.AbstractMutableMap.SimpleEntry\n\n/**\n
 * A simple wrapper around JavaScriptObject
to provide [java.util.Map]-like semantics for any\n * key type.\n */\n\n * Implementation notes:\n * A key's
hashCode is the index in backingMap which should contain that key. Since several keys may\n * have the same
hash, each value in hashCodeMap is actually an array containing all entries whose\n * keys share the same hash.\n
*/\n\ninternal class InternalHashMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V>

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{\n\n private var backingMap: dynamic = createJsMap()\n override var size: Int = 0\n private set\n\n override fun put(key: K, value: V): V? {\n val hashCode = equality.getHashCode(key)\n val chainOrEntry = getChainOrEntryOrNull(hashCode)\n if (chainOrEntry == null) {\n // This is a new chain, put it to the map.\n backingMap[hashCode] = SimpleEntry(key, value)\n } else {\n if (chainOrEntry !is Array<*>) {\n // It is an entry\n val entry: SimpleEntry<K, V> = chainOrEntry\n if (equality.equals(entry.key, key)) {\n return entry.setValue(value)\n } else {\n backingMap[hashCode] = arrayOf(entry, SimpleEntry(key, value))\n size++\n return null\n }\n } else {\n // Chain already exists, perhaps key also exists.\n val chain: Array<MutableEntry<K, V>> = chainOrEntry\n val entry = chain.findEntryInChain(key)\n if (entry != null) {\n return entry.setValue(value)\n }\n chain.asDynamic().push(SimpleEntry(key, value))\n }\n size++\n\n structureChanged(host)\n return null\n }\n\n override fun remove(key: K): V? {\n val hashCode = equality.getHashCode(key)\n val chainOrEntry = getChainOrEntryOrNull(hashCode) ?: return null\n if (chainOrEntry !is Array<*>) {\n val entry: MutableEntry<K, V> = chainOrEntry\n if (equality.equals(entry.key, key)) {\n jsDeleteProperty(backingMap, hashCode)\n size--\n return entry.value\n } else {\n return null\n }\n } else {\n val chain: Array<MutableEntry<K, V>> = chainOrEntry\n for (index in chain.indices) {\n val entry = chain[index]\n if (equality.equals(key, entry.key)) {\n if (chain.size == 1) {\n chain.asDynamic().length = 0\n // remove the whole array\n jsDeleteProperty(backingMap, hashCode)\n } else {\n // splice out the entry we're removing\n chain.asDynamic().splice(index, 1)\n }\n size--\n\n structureChanged(host)\n return entry.value\n }\n }\n return null\n }\n\n override fun clear() {\n backingMap = createJsMap()\n size = 0\n }\n\n override fun contains(key: K): Boolean = getEntry(key) != null\n\n override fun get(key: K): V? = getEntry(key)?.value\n\n private fun getEntry(key: K): MutableEntry<K, V>? {\n val chainOrEntry = getChainOrEntryOrNull(equality.getHashCode(key)) ?: return null\n if (chainOrEntry !is Array<*>) {\n val entry: MutableEntry<K, V> = chainOrEntry\n if (equality.equals(entry.key, key)) {\n return entry\n } else {\n return null\n }\n } else {\n val chain: Array<MutableEntry<K, V>> = chainOrEntry\n return chain.findEntryInChain(key)\n }\n }\n\n private fun Array<MutableEntry<K, V>>.findEntryInChain(key: K): MutableEntry<K, V>? =\n firstOrNull { entry -> equality.equals(entry.key, key) }\n\n override fun iterator(): MutableIterator<MutableEntry<K, V>> {\n return object : MutableIterator<MutableEntry<K, V>> {\n var state = -1 // -1 not ready, 0 - ready, 1 - done\n val keys: Array<String> = js("Object").keys(backingMap)\n var keyIndex = -1\n var chainOrEntry: dynamic = null\n var isChain = false\n var itemIndex = -1\n var lastEntry: MutableEntry<K, V>? = null\n private fun computeNext(): Int {\n if (chainOrEntry != null && isChain) {\n val chainSize: Int = chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>().size\n if (++itemIndex < chainSize)\n return 0\n }\n if (++keyIndex < keys.size)\n {\n chainOrEntry = backingMap[keys[keyIndex]]\n isChain = chainOrEntry is Array<*>\n\n itemIndex = 0\n return 0\n } else {\n chainOrEntry = null\n return 1\n }\n }\n\n override fun hasNext(): Boolean {\n if (state == -1)\n state = computeNext()\n return state == 0\n }\n\n override fun next(): MutableEntry<K, V> {\n if (!hasNext()) throw NoSuchElementException()\n val lastEntry = if (isChain) {\n chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>()[itemIndex]\n } else {\n chainOrEntry.unsafeCast<MutableEntry<K, V>>()\n }\n this.lastEntry = lastEntry\n state = -1\n return lastEntry\n }\n\n override fun remove() {\n checkNotNull(lastEntry)\n this@InternalHashMap.remove(lastEntry!!.key)\n }

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        lastEntry = null\n          // the chain being iterated just got modified by InternalHashCodeMap.remove\n
        itemIndex--\n          }\n          }\n          }\n          private fun getChainOrEntryOrNull(hashCode: Int): dynamic {\n
        val chainOrEntry = backingMap[hashCode]\n          return if (chainOrEntry === undefined) null else chainOrEntry\n
    }\n}\n}\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.collections\n\n/**\n * The common interface of [InternalStringMap] and
[InternalHashCodeMap].\n */\n\ninternal interface InternalMap<K, V> :
MutableIterable<MutableMap.MutableEntry<K, V>> {\n    val equality: EqualityComparator\n    val size: Int\n
operator fun contains(key: K): Boolean\n    operator fun get(key: K): V?\n    fun put(key: K, value: V): V?\n    fun
remove(key: K):
V?\n    fun clear(): Unit\n\n    fun createJsMap(): dynamic {\n        val result = js("Object.create(null)")\n        //
force to switch object representation to dictionary mode\n        result["foo"] = 1\n        jsDeleteProperty(result,
"foo")\n        return result\n    }\n}\n}\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n * Based on GWT InternalStringMap\n * Copyright 2008 Google Inc.\n
*/\n\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n * A simple wrapper
around JavaScript Map for key type is string.\n */\n * Though this map is instantiated only with K=String, the K type
is not fixed to String statically,\n * because we want to have it erased to Any? in order not to generate type-safe
override bridges for\n * [get], [contains], [remove] etc, if they ever are generated.\n
*/\n\ninternal class InternalStringMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {\n\n
private var backingMap: dynamic = createJsMap()\n    override var size: Int = 0\n    private set\n\n    /**\n     *
A mod count to track 'value' replacements in map to ensure that the 'value' that we have in the\n     * iterator entry
is guaranteed to be still correct.\n     * This is to optimize for the common scenario where the values are not
modified during\n     * iterations where the entries are never stale.\n     */\n    private var valueMod: Int = 0\n\n
override operator fun contains(key: K): Boolean {\n    if (key !is String) return false\n    return
backingMap[key] !== undefined\n    }\n\n    override operator fun get(key: K): V? {\n    if (key !is String) return
null\n    val value = backingMap[key]\n    return if (value !== undefined) value.unsafeCast<V>() else null\n
    }\n\n    override fun put(key: K, value: V):
V? {\n    require(key is String)\n    val oldValue = backingMap[key]\n    backingMap[key] = value\n\n
if (oldValue === undefined) {\n        size++\n        structureChanged(host)\n        return null\n    } else
{\n        valueMod++\n        return oldValue.unsafeCast<V>()\n    }\n    }\n\n    override fun remove(key:
K): V? {\n    if (key !is String) return null\n    val value = backingMap[key]\n    if (value !== undefined) {\n
        jsDeleteProperty(backingMap, key)\n        size--\n        structureChanged(host)\n        return
value.unsafeCast<V>()\n    } else {\n        valueMod++\n        return null\n    }\n    }\n\n    override fun
clear() {\n    backingMap = createJsMap()\n    size = 0\n    }\n\n    override fun iterator():
MutableIterator<MutableEntry<K, V>> {\n    return object : MutableIterator<MutableEntry<K, V>> {\n\n
private val keys: Array<String>
= js("Object").keys(backingMap)\n        private val iterator = keys.iterator()\n        private var lastKey:
String? = null\n\n        override fun hasNext(): Boolean = iterator.hasNext()\n        override fun next():
MutableEntry<K, V> {\n            val key = iterator.next()\n            lastKey = key\n\n
@Suppress("UNCHECKED_CAST")\n            return newMapEntry(key as K)\n        }\n\n        override
fun remove() {\n            @Suppress("UNCHECKED_CAST")\n            this@InternalStringMap.remove(checkNotNull(lastKey) as K)\n        }\n    }\n}\n}\n}\n\n    private fun
newMapEntry(key: K): MutableEntry<K, V> = object : MutableEntry<K, V> {\n        override val key: K get() =
key\n        override val value: V get() = this@InternalStringMap[key].unsafeCast<V>()\n\n        override fun
setValue(newValue: V): V = this@InternalStringMap.put(key, newValue).unsafeCast<V>()\n\n        override fun
hashCode():

```

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Int = AbstractMap.entryHashCode(this)\n    override fun toString(): String = AbstractMap.entryToString(this)\n    override fun equals(other: Any?): Boolean = AbstractMap.entryEquals(this, other)\n    }\n}\n", "/*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n * Based on GWT
LinkedHashMap\n * Copyright 2008 Google Inc.\n */\npackage kotlin.collections\n\nimport
kotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table based implementation of the [MutableMap]
interface, which additionally preserves the insertion order\n * of entries during the iteration.\n * The insertion
order is preserved by maintaining a doubly-linked list of all of its entries.\n */\npublic actual open class
LinkedHashMap<K, V> : HashMap<K, V>, MutableMap<K, V> {\n\n    /**\n     * The entry we use includes
next/prev pointers for a
doubly-linked circular\n     * list with a head node. This reduces the special cases we have to deal with\n     * in the
list operations.\n     * Note that we duplicate the key from the underlying hash map so we can find\n     * the eldest
entry. The alternative would have been to modify HashMap so more\n     * of the code was directly usable here, but
this would have added some\n     * overhead to HashMap, or to reimplement most of the HashMap code here with\n
     * small modifications. Paying a small storage cost only if you use\n     * LinkedHashMap and minimizing code size
seemed like a better tradeoff\n     */\n    private class ChainEntry<K, V>(key: K, value: V) :
AbstractMutableMap.SimpleEntry<K, V>(key, value) {\n        internal var next: ChainEntry<K, V>? = null\n
internal var prev: ChainEntry<K, V>? = null\n    }\n\n    private inner class EntrySet :
AbstractMutableSet<MutableEntry<K, V>>() {\n        private inner class EntryIterator :
MutableIterator<MutableEntry<K,
V>> {\n            // The last entry that was returned from this iterator.\n            private var last: ChainEntry<K, V>? =
null\n            // The next entry to return from this iterator.\n            private var next: ChainEntry<K, V>? = null\n
            init {\n                next = head\n                recordLastKnownStructure(map, this)\n            }\n            override
fun hasNext(): Boolean {\n                return next != null\n            }\n            override fun next(): MutableEntry<K,
V> {\n                checkStructuralChange(map, this)\n                if (!hasNext()) throw
NoSuchElementException()\n                val current = next!!\n                last = current\n                next =
current.next.takeIf { it != head }\n                return current\n            }\n            override fun remove() {\n
                check(last != null)\n                checkStructuralChange(map, this)\n                last!!.remove()\n
                map.remove(last!!.key)\n                recordLastKnownStructure(map, this)\n                last = null\n            }\n
            }\n            override fun add(element: MutableEntry<K, V>): Boolean = throw
UnsupportedOperationException("Add is not supported on entries")\n        }\n        override fun clear() {\n
            this@LinkedHashMap.clear()\n        }\n        override operator fun contains(element: MutableEntry<K, V>):
Boolean = containsEntry(element)\n        override operator fun iterator(): MutableIterator<MutableEntry<K, V>>
= EntryIterator()\n        override fun remove(element: MutableEntry<K, V>): Boolean {\n            if
(contains(element)) {\n                this@LinkedHashMap.remove(element.key)\n                return true\n            }\n
            return false\n        }\n        override val size: Int get() = this@LinkedHashMap.size\n    }\n\n    /**\n     * The
head of the insert order chain, which is a doubly-linked circular\n     * list.\n     */\n    private var head:
ChainEntry<K, V>? = null\n\n    /**\n     * Add this node to the end of the chain.\n     */\n    private fun
ChainEntry<K, V>.addToEnd() {\n        // This entry is not in the list.\n        check(next == null && prev ==
null)\n        val _head = head\n        if (_head == null) {\n            head = this\n            next = this\n            prev =
this\n        } else {\n            // Chain is valid.\n            val _tail = checkNotNull(_head.prev)\n            // Update me.\n
            prev = _tail\n            next = _head\n            // Update my new siblings: current head and old tail\n
            _head.prev = this\n            _tail.next = this\n        }\n    }\n\n    /**\n     * Remove this node from the chain it is a part
of.\n     */\n    private fun ChainEntry<K, V>.remove() {\n        if (this.next === this) {\n            // if this is single
element, remove
            head\n            head = null\n        } else {\n            if (head === this) {\n                // if this is first element, move head
to next\n                head = next\n            }\n            next!!.prev = prev\n            prev!!.next = next\n        }\n        next

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= null\n    prev = null\n    }\n    /*\n * The hashmap that keeps track of our entries and the chain. Note that
we\n * duplicate the key here to eliminate changes to HashMap and minimize the\n * code here, at the expense of
additional space.\n */\n private val map: HashMap<K, ChainEntry<K, V>>\n    /*\n * Constructs an empty
[LinkedHashMap] instance.\n */\n actual constructor() : super() {\n    map = HashMap<K, ChainEntry<K,
V>>()\n }\n    internal constructor(backingMap: HashMap<K, Any>) : super() {\n
@Suppress(\"UNCHECKED_CAST\") // expected to work due to erasure\n    map = backingMap as
HashMap<K, ChainEntry<K, V>>\n }\n    /*\n * Constructs
an empty [LinkedHashMap] instance.\n */\n * @param initialCapacity the initial capacity (ignored)\n *
@param loadFactor the load factor (ignored)\n */\n * @throws IllegalArgumentException if the initial
capacity or load factor are negative\n */\n
@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n actual constructor(initialCapacity:
Int, loadFactor: Float = 0.0f) : super(initialCapacity, loadFactor) {\n    map = HashMap<K, ChainEntry<K,
V>>()\n }\n    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n    /*\n * Constructs an
instance of [LinkedHashMap] filled with the contents of the specified [original] map.\n */\n actual
constructor(original: Map<out K, V>) {\n    map = HashMap<K, ChainEntry<K, V>>()\n
this.putAll(original)\n }\n    actual override fun clear() {\n    map.clear()\n    head = null\n }\n\n//
override fun clone(): Any {\n//    return LinkedHashMap(this)\n//
}\n\n    actual override fun containsKey(key: K): Boolean = map.containsKey(key)\n    actual override fun
containsValue(value: V): Boolean {\n    var node: ChainEntry<K, V> = head ?: return false\n    do {\n    if
(node.value == value) {\n        return true\n    }\n    node = node.next!!\n    } while (node !==
head)\n    return false\n }\n\n    override fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K,
V>> = EntrySet()\n    actual override operator fun get(key: K): V? = map.get(key)?.value\n    actual override fun
put(key: K, value: V): V? {\n    val old = map.get(key)\n    if (old == null) {\n    val newEntry =
ChainEntry(key, value)\n    map.put(key, newEntry)\n    newEntry.addToEnd()\n    return null\n
} else {\n    return old.setValue(value)\n    }\n }\n    actual override fun remove(key: K): V? {\n    val
entry = map.remove(key)\n
if (entry != null) {\n    entry.remove()\n    return entry.value\n    }\n    return null\n }\n    actual
override val size: Int get() = map.size\n}\n\n/**\n * Constructs the specialized implementation of
[LinkedHashMap] with [String] keys, which stores the keys as properties of\n * JS object without hashing them.\n
*/\n public fun <V> linkedStringMapOf(vararg pairs: Pair<String, V>): LinkedHashMap<String, V> {\n    return
LinkedHashMap<String, V>(stringMapOf<Any>()).apply { putAll(pairs) }\n}, \"/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n * Based on GWT LinkedHashMap\n
* Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\n/**\n * The implementation of the [MutableSet]
interface, backed by a [LinkedHashMap] instance.\n */\n * This implementation preserves the insertion order
of elements during the iteration.\n */\n public actual open class LinkedHashMap<E> : HashSet<E>, MutableSet<E>
{\n\n    internal constructor(map: LinkedHashMap<E, Any>) : super(map)\n    /*\n * Constructs a new empty
[LinkedHashSet].\n */\n actual constructor() : super(LinkedHashMap<E, Any>())\n    /*\n * Constructs a
new [LinkedHashSet] filled with the elements of the specified collection.\n */\n actual constructor(elements:
Collection<E>) : super(LinkedHashMap<E, Any>()) {\n    addAll(elements)\n }\n\n    /*\n * Constructs a
new empty [LinkedHashSet].\n */\n * @param initialCapacity the initial capacity (ignored)\n * @param
loadFactor the load factor (ignored)\n */\n * @throws IllegalArgumentException if the initial capacity or
load factor are negative\n */\n @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : super(LinkedHashMap<E, Any>(initialCapacity,
loadFactor))\n    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n//    public override fun
clone(): Any {\n//    return LinkedHashMap(this)\n//    }\n}\n\n/**\n * Creates a new instance of the specialized
implementation of [LinkedHashSet] with the specified [String] elements,\n * which elements the keys as properties
of JS object without hashing them.\n */\n public fun linkedStringSetOf(vararg elements: String):

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LinkedHashSet<String> {\n    return LinkedHashSet(linkedStringMapOf<Any>()).apply { addAll(elements)
}\n}\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin\n\nimport kotlin.contracts.*\n\n@Deprecated("Do not use Synchronized annotation in pure
Kotlin/JS code", level = DeprecationLevel.ERROR)\npublic typealias Synchronized =
kotlin.jvm.Synchronized\n\n@Deprecated("Do
not use Volatile annotation in pure Kotlin/JS code", level = DeprecationLevel.ERROR)\npublic typealias Volatile
= kotlin.jvm.Volatile\n\n@kotlin.internal.InlineOnly\npublic actual inline fun <R> synchronized(lock: Any, block:
() -> R): R {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    return
block()\n}\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.io\n\ninternal abstract class BaseOutput {\n    open fun println() {\n        print("\\n")\n    }\n\n    open fun println(message: Any?) {\n        print(message)\n        println()\n    }\n\n    abstract fun print(message:
Any?)\n\n    open fun flush() {\n    }\n}\n\n/** JsName used to make the declaration available outside of module to test it
*\n\n@JsName("NodeJsOutput")\ninternal class NodeJsOutput(val
outputStream: dynamic) : BaseOutput() {\n    override fun print(message: Any?) {\n        // TODO: Using local
variable because of bug in block decomposition lowering in IR backend\n        val messageString =
String(message)\n        outputStream.write(messageString)\n    }\n}\n\n/** JsName used to make the declaration
available outside of module to test it *\n\n@JsName("OutputToConsoleLog")\ninternal class OutputToConsoleLog
: BaseOutput() {\n    override fun print(message: Any?) {\n        console.log(message)\n    }\n\n    override fun
println(message: Any?) {\n        console.log(message)\n    }\n\n    override fun println() {\n        console.log("\\n")\n
}\n}\n\n/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in
*\n\n@JsName("BufferedOutput")\ninternal open class BufferedOutput : BaseOutput() {\n    var buffer = "\\n"\n\n    override fun print(message: Any?) {\n        buffer += String(message)\n    }\n\n    override
fun flush() {\n        buffer = "\\n"\n    }\n}\n\n/** JsName used to make the declaration available outside of module to
test it *\n\n@JsName("BufferedOutputToConsoleLog")\ninternal class BufferedOutputToConsoleLog :
BufferedOutput() {\n    override fun print(message: Any?) {\n        var s = String(message)\n        val i =
s.nativeLastIndexOf("\\n", 0)\n        if (i >= 0) {\n            buffer += s.substring(0, i)\n            flush()\n            s =
s.substring(i + 1)\n        }\n        buffer += s\n    }\n\n    override fun flush() {\n        console.log(buffer)\n        buffer
= "\\n"\n    }\n}\n\n/** JsName used to make the declaration available outside of module to test it and use at
try.kotl.in *\n\n@JsName("output")\ninternal var output = run {\n    val isNode: Boolean = js("typeof process !==
'undefined' && process.versions && !process.versions.node")\n    if (isNode) NodeJsOutput(js("process.stdout"))
else BufferedOutputToConsoleLog()\n}\n\n@kotlin.internal.InlineOnly\nprivate
inline fun String(value: Any?): String = js("String")(value)\n\n/** Prints the line separator to the standard output
stream. *\n\npublic actual fun println() {\n    output.println()\n}\n\n/** Prints the given [message] and the line
separator to the standard output stream. *\n\npublic actual fun println(message: Any?) {\n
output.println(message)\n}\n\n/** Prints the given [message] to the standard output stream. *\n\npublic actual fun
print(message: Any?) {\n    output.print(message)\n}\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n\npackage kotlin.coroutines\n\nimport
kotlin.coroutines.intrinsics.CoroutineSingletons.*\n\nimport
kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal
actual class SafeContinuation<in T>\ninternal actual constructor(\n    private
val delegate: Continuation<T>,\n    initialResult: Any?) : Continuation<T> {\n    @PublishedApi\n    internal
actual constructor(delegate: Continuation<T>) : this(delegate, UNDECIDED)\n\n    public actual override val
context: CoroutineContext\n        get() = delegate.context\n\n    private var result: Any? = initialResult\n\n    public
actual override fun resumeWith(result: Result<T>) {\n        val cur = this.result\n        when {\n            cur ===
UNDECIDED -> {\n                this.result = result.value\n            }\n            cur === COROUTINE_SUSPENDED -

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> {\n
    this.result = RESUMED\n
    delegate.resumeWith(result)\n
} else -> throw
IllegalStateException("Already resumed")\n
}\n
}\n
@PublishedApi\n
internal actual fun
getOrThrow(): Any? {\n
    if (result === UNDECIDED) {\n
        result = COROUTINE_SUSPENDED\n
    }\n
    return COROUTINE_SUSPENDED\n
}\n
val result = this.result\n
return when {\n
    result === RESUMED -> COROUTINE_SUSPENDED // already called continuation,
indicate COROUTINE_SUSPENDED upstream\n
    result is Result.Failure -> throw result.exception\n
} else -> result // either COROUTINE_SUSPENDED or data\n
}\n
}\n
}\n
}"/*\n
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Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
 */\n
package
kotlin.coroutines.js.internal\n
import kotlin.coroutines.Continuation\n
import
kotlin.coroutines.EmptyCoroutineContext\n
@PublishedApi\n
@SinceKotlin("1.3")\n
internal val
EmptyContinuation = Continuation<Any?>(EmptyCoroutineContext) { result ->\n
    result.getOrThrow()\n
}"/*\n
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file.\n
 */\n
package kotlin.js\n
/**\n
 * Exposes the [Date API](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/Date) to Kotlin.\n
 */\n
@Suppress("NOT_DOCUMENTED")\n
public external class Date() {\n
    public constructor(milliseconds:
Number)\n
    public constructor(dateString: String)\n
    public constructor(year: Int, month: Int)\n
    public constructor(year: Int, month: Int, day: Int)\n
    public constructor(year: Int, month: Int, day: Int, hour: Int)\n
    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)\n
    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int)\n
    public constructor(year: Int, month: Int, day: Int, hour: Int,
minute: Int, second: Int, millisecond: Number)\n
    public fun getDate(): Int\n
    public fun getDay(): Int\n
    public fun getFullYear(): Int\n
    public fun getHours(): Int\n
    public fun getMilliseconds(): Int\n
    public fun
getMinutes(): Int\n
    public fun getMonth(): Int\n
    public fun getSeconds(): Int\n
    public fun getTime():
Double\n
    public fun getTimezoneOffset(): Int\n
    public fun getUTCDate(): Int\n
    public fun
getUTCDay(): Int\n
    public fun getUTCFullYear(): Int\n
    public fun getUTCHours(): Int\n
    public fun
getUTCMilliseconds(): Int\n
    public fun getUTCMinutes(): Int\n
    public fun getUTCMonth(): Int\n
    public
fun getUTCSeconds(): Int\n
    public fun toDateString(): String\n
    public fun toISOString(): String\n
    public
fun toJSON(): Json\n
    public fun toLocaleDateString(locales: Array<String> = definedExternally, options:
LocaleOptions = definedExternally): String\n
    public fun toLocaleDateString(locales: String, options:
LocaleOptions = definedExternally): String\n
    public fun toLocaleString(locales: Array<String> =
definedExternally, options: LocaleOptions = definedExternally): String\n
    public fun toLocaleString(locales:
String,
options: LocaleOptions = definedExternally): String\n
    public fun toLocaleTimeString(locales: Array<String> =
definedExternally, options: LocaleOptions = definedExternally): String\n
    public fun
toLocaleTimeString(locales: String, options: LocaleOptions = definedExternally): String\n
    public fun
toTimeString(): String\n
    public fun toUTCString(): String\n
    public companion object {\n
    public fun
now(): Double\n
    public fun parse(dateString: String): Double\n
    public fun UTC(year: Int, month: Int):
Double\n
    public fun UTC(year: Int, month: Int, day: Int): Double\n
    public fun UTC(year: Int, month:
Int, day: Int, hour: Int): Double\n
    public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int):
Double\n
    public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int): Double\n
    public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond:
Number): Double\n
}\n
    public interface LocaleOptions {\n
    public var localeMatcher: String?\n
    public var timeZone: String?\n
    public var hour12: Boolean?\n
    public var formatMatcher: String?\n
    public var weekday: String?\n
    public var era: String?\n
    public var year: String?\n
    public var
month: String?\n
    public var day: String?\n
    public var hour: String?\n
    public var minute:
String?\n
    public var second: String?\n
    public var timeZoneName: String?\n
}\n
}\n
public inline fun
dateLocaleOptions(init: Date.LocaleOptions.() -> Unit): Date.LocaleOptions {\n
    val result = js("new

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Object()).unsafeCast<Date.LocaleOptions>()\n  init(result)\n  return result\n}", /*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.dom\n\nimport org.w3c.dom.*\n\n/**\n * Creates a new element with the specified [name].\n
*\n * The element is initialized with the specified [init] function.\n */\npublic fun Document.createElement(name:
String, init: Element.() -> Unit): Element = createElement(name).apply(init)\n\n/**\n * Appends a newly created
element with the specified [name] to this element.\n */\n * The element is initialized with the specified [init]
function.\n */\npublic fun Element.appendChild(name: String, init: Element.() -> Unit): Element =\n
ownerDocument!!.createElement(name, init).also { appendChild(it) }\n\n", /*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport
org.w3c.dom.*\n\n/**\n * Returns true if the element has the given CSS class style in its 'class' attribute */\nfun
Element.hasClass(cssClass:
String): Boolean = className.matches("\\\\\\"(\\^\\.\\*\\|s+)$cssClass(\\|\\s+\\.\\*\\|)"\\.toRegex())\n\n/**\n * Adds CSS
class to element. Has no effect if all specified classes are already in class attribute of the element\n */\n * @return
true if at least one class has been added\n */\nfun Element.addClass(vararg cssClasses: String): Boolean {\n  val
missingClasses = cssClasses.filterNot { hasClass(it) }\n  if (missingClasses.isNotEmpty()) {\n    val
presentClasses = className.trim()\n    className = buildString {\n      append(presentClasses)\n      if
(!presentClasses.isEmpty()) {\n        append(" ")\n      }\n      missingClasses.joinTo(this, " ")
}\n    return true\n  }\n  return false\n}\n\n/**\n * Removes all [cssClasses] from element. Has no effect if all
specified classes are missing in class attribute of the element\n */\n * @return true if at least one class has been
removed\n */\nfun Element.removeClass(vararg
cssClasses: String): Boolean {\n  if (cssClasses.any { hasClass(it) }) {\n    val toBeRemoved =
cssClasses.toSet()\n    className = className.trim().split("\\\\|s+"\\.toRegex()).filter { it !in toBeRemoved
}.joinToString(" ")
return true\n  }\n  return false\n}\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage
kotlin.text\n\n/**\n * Converts the string into a regular expression [Regex] with the default options.\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(): Regex = Regex(this)\n\n/**\n * Converts the
string into a regular expression [Regex] with the specified single [option].\n */\n\n@kotlin.internal.InlineOnly\npublic
inline fun String.toRegex(option: RegexOption): Regex = Regex(this,
option)\n\n/**\n * Converts the string into a regular expression [Regex] with the specified set of [options].\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(options: Set<RegexOption>): Regex =
Regex(this, options)\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage
kotlin.text\n\n/**\n * A mutable sequence of characters.\n */\n * String builder can be used to efficiently perform
multiple string manipulation operations.\n */\n\nexpect class StringBuilder : Appendable, CharSequence {\n  /**
Constructs an empty string builder. */\n  constructor()\n  /** Constructs an empty string builder with the
specified initial [capacity]. */\n  constructor(capacity: Int)\n  /** Constructs a string builder that contains
the same characters as the specified [content] char sequence. */\n  constructor(content: CharSequence)\n  /**
Constructs a string builder that contains the same characters as the specified [content] string. */\n
@SinceKotlin("1.3")\n// @ExperimentalStdlibApi\n  constructor(content: String)\n\n  override val length:
Int\n\n  override operator fun get(index: Int): Char\n\n  override fun subSequence(startIndex: Int, endIndex: Int):
CharSequence\n\n  override fun append(value: Char): StringBuilder\n  override fun append(value:
CharSequence?): StringBuilder\n  override fun append(value: CharSequence?, startIndex: Int, endIndex: Int):

```

StringBuilder\n\n /\*\*\n \* Reverses the contents of this string builder and returns this instance.\n \*\n \* Surrogate pairs included in this string builder are treated as single characters.\n \* Therefore, the order of the high-low surrogates is never reversed.\n \*\n \* Note that the reverse operation may produce new surrogate pairs that were unpaired low-surrogates and high-surrogates before the operation.\n \* For example, reversing `""\uDC00\uD800"` produces `""\uD800\uDC00"` which is a valid surrogate pair.\n \*/\n fun reverse(): StringBuilder\n\n /\*\*\n \* Appends the string representation of the specified object [value] to this string builder and returns this instance.\n \*\n \* The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n \* and then that string was appended to this string builder.\n \*/\n fun append(value: Any?): StringBuilder\n\n /\*\*\n \* Appends the string representation of the specified boolean [value] to this string builder and returns this instance.\n \*\n \* The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n \* and then that string was appended to this string builder.\n \*/\n @SinceKotlin("1.3")\n

@ExperimentalStdlibApi\n fun append(value: Boolean): StringBuilder\n\n /\*\*\n \* Appends characters in the specified character array [value] to this string builder and returns this instance.\n \*\n \* Characters are appended in order, starting at the index 0.\n \*/\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun append(value: CharArray): StringBuilder\n\n /\*\*\n \* Appends the specified string [value] to this string builder and returns this instance.\n \*/\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun append(value: String): StringBuilder\n\n /\*\*\n \* Returns the current capacity of this string builder.\n \*\n \* The capacity is the maximum length this string builder can have before an allocation occurs.\n \*/\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun capacity(): Int\n\n /\*\*\n \* Ensures that the capacity of this string builder is at least equal to the specified [minimumCapacity].\n

\*\n \* If the current capacity is less than the [minimumCapacity], a new backing storage is allocated with greater capacity.\n \* Otherwise, this method takes no action and simply returns.\n \*/\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun ensureCapacity(minimumCapacity: Int)\n\n /\*\*\n \* Returns the index within this string builder of the first occurrence of the specified [string].\n \*\n \* Returns `-1` if the specified [string] does not occur in this string builder.\n \*/\n @SinceKotlin("1.3")\n

@ExperimentalStdlibApi\n fun indexOf(string: String): Int\n\n /\*\*\n \* Returns the index within this string builder of the first occurrence of the specified [string],\n \* starting at the specified [startIndex].\n \*\n \* Returns `-1` if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n \*/\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun

indexOf(string: String, startIndex: Int): Int\n\n /\*\*\n \* Returns the index within this string builder of the last occurrence of the specified [string].\n \* The last occurrence of empty string `""` is considered to be at the index equal to `this.length`.  
\*\n \* Returns `-1` if the specified [string] does not occur in this string builder.\n \*/\n @SinceKotlin("1.3")\n

@ExperimentalStdlibApi\n fun lastIndexOf(string: String): Int\n\n /\*\*\n \* Returns the index within this string builder of the last occurrence of the specified [string],\n \* starting from the specified [startIndex] toward the beginning.\n \*\n \* Returns `-1` if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n \*/\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun lastIndexOf(string: String, startIndex: Int): Int\n\n /\*\*\n \* Inserts the string representation of the specified boolean [value] into

this string builder at the specified [index] and returns this instance.\n \*\n \* The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n \* and then that string was inserted into this string builder at the specified [index].\n \*\n \* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n \*/\n @SinceKotlin("1.3")\n

@ExperimentalStdlibApi\n fun insert(index: Int, value: Boolean): StringBuilder\n\n /\*\*\n \* Inserts the specified character [value] into this string builder at the specified [index] and returns this instance.\n \*\n \* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n \*/\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun insert(index: Int, value: Char): StringBuilder\n\n /\*\*\n \* Inserts characters in the specified character array

[value] into this string builder at the specified [index] and returns this instance.\n \* The inserted characters go in same order as in the [value] character array, starting at [index].\n \* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n \*/\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun insert(index: Int, value: CharArray): StringBuilder\n /\*\*\n \* Inserts characters in the specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n \* The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n \* @param index the position in this string builder to insert at.\n \* @param value the character sequence from which characters are inserted. If [value] is `null`, then the four characters `\\`null` are inserted.\n \* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n \*/\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun insert(index: Int, value: CharSequence?): StringBuilder\n /\*\*\n \* Inserts the string representation of the specified object [value] into this string builder at the specified [index] and returns this instance.\n \* The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n \* and then that string was inserted into this string builder at the specified [index].\n \* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n \*/\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun insert(index: Int, value: Any?): StringBuilder\n /\*\*\n \* Inserts the string [value] into this string builder at the specified [index] and returns this instance.\n \* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n \*/\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun insert(index: Int, value: String): StringBuilder\n /\*\*\n \* Sets the length of this string builder to the specified [newLength].\n \* If the [newLength] is less than the current length, it is changed to the specified [newLength].\n \* Otherwise, null characters `\\u0000` are appended to this string builder until its length is less than the [newLength].\n \* Note that in Kotlin/JS [set] operator function has non-constant execution time complexity.\n \* Therefore, increasing length of this string builder and then updating each character by index may slow down your program.\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.\n \*/\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun setLength(newLength: Int)\n /\*\*\n \* Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [length] (exclusive).\n \* @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of this string builder.\n \*/\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun substring(startIndex: Int): String\n /\*\*\n \* Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [endIndex] (exclusive).\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n \*/\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun substring(startIndex: Int, endIndex: Int): String\n /\*\*\n \* Attempts to reduce storage used for this string builder.\n \* If the backing storage of this string builder is larger than necessary to hold its current contents,\n \* then it may be resized to become more space efficient.\n \* Calling this method may, but is not required to, affect the value of the [capacity] property.\n \*/\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun trimToSize()\n /\*\*\n \* Clears the content of this string builder making it empty and returns this instance.\n \* @sample samples.text.Strings.clearStringBuilder\n \*/\n @SinceKotlin("1.3")\n public expect fun StringBuilder.clear(): StringBuilder\n /\*\*\n \* Sets the character at the specified [index] to the specified [value].\n \* @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n \*/\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n public expect operator fun StringBuilder.set(index: Int, value: Char)\n /\*\*\n \* Replaces characters in the specified range of this string builder with characters in the specified string [value] and returns this instance.\n \* @param startIndex the beginning (inclusive) of the range to replace.\n \* @param endIndex the end (exclusive) of the range to replace.\n \* @param value the string to replace with.\n \* @throws

`IndexOutOfBoundsException` or `[IllegalArgumentException]` if `[startIndex]` is less than zero, greater than the length of this string builder, or ``startIndex > endIndex``.

```

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder\n\n**\n * Removes the character at the specified [index] from this string builder and returns this instance.\n *\n * If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire supplementary character.\n *\n * @param index the index of `Char` to remove.\n *\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun StringBuilder.deleteAt(index: Int): StringBuilder\n\n**\n * Removes characters in the specified range from this string builder and returns this instance.\n *\n * @param startIndex the beginning (inclusive) of the range to remove.\n * @param endIndex the end (exclusive) of the range to remove.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder\n\n**\n * Copies characters from this string builder into the [destination] character array.\n *\n * @param destination the array to copy to.\n * @param destinationOffset the position in the array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n * @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length)\n\n**\n * Appends characters in a subarray of the specified character array [value] to this string builder and returns this instance.\n *\n * Characters are appended in order, starting at specified [startIndex].\n *\n * @param value the array from which characters are appended.\n * @param startIndex the beginning (inclusive) of the subarray to append.\n * @param endIndex the end (exclusive) of the subarray to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder\n\n**\n * Appends a subsequence of the specified character sequence [value] to this string builder and returns this instance.\n *\n * @param value the character sequence from which a subsequence is appended. If [value] is `null`,\n * then characters are appended as if [value] contained the four characters `\\`null`.\n * @param startIndex the beginning (inclusive) of the subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun StringBuilder.appendRange(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder\n\n**\n * Inserts characters in a subarray of the specified character array [value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted characters go in same order as in the [value] array, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value the array from which characters are inserted.\n * @param startIndex the beginning (inclusive) of the subarray to insert.\n * @param endIndex the end (exclusive) of the subarray to insert.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder\n\n**\n * Inserts characters in a subsequence of the

```

specified character sequence [value] into this string builder at the specified [index] and returns this instance.  
The inserted characters go in the same order as in the [value] character sequence, starting at [index].  
@param index the position in this string builder to insert at.  
@param value the character sequence from which a subsequence is inserted. If [value] is `null`, then characters will be inserted as if [value] contained the four characters `"\null"`.  
@param startIndex the beginning (inclusive) of the subsequence to insert.  
@param endIndex the end (exclusive) of the subsequence to insert.  
@throws IndexOutOfBoundsException or [IllegalArgumentException]  
when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.  
@throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.  
@SinceKotlin("1.3")  
@ExperimentalStdlibApi  
public expect fun  
StringBuilder.insertRange(index: Int, value: CharSequence?, startIndex: Int, endIndex: Int):  
StringBuilder  
@Suppress("EXTENSION\_SHADOWED\_BY\_MEMBER")  
@Deprecated("Use  
append(value: Any?) instead", ReplaceWith("append(value = obj)"),  
DeprecationLevel.WARNING)  
@kotlin.internal.InlineOnly  
public inline fun StringBuilder.append(obj: Any?):  
StringBuilder = this.append(obj)  
Builds new string by populating newly created [StringBuilder] using provided [builderAction] and then converting it to [String].  
@kotlin.internal.InlineOnly  
public inline fun  
buildString(builderAction: StringBuilder.() -> Unit): String =  
StringBuilder().apply(builderAction).toString()  
Builds new string by populating newly created [StringBuilder] initialized with the given [capacity] using provided [builderAction] and then converting it to [String].  
@kotlin.internal.InlineOnly  
public inline fun buildString(capacity: Int, builderAction: StringBuilder.() -> Unit): String =  
StringBuilder(capacity).apply(builderAction).toString()  
Appends all arguments to the given StringBuilder.  
public fun StringBuilder.append(vararg value: String?):  
StringBuilder {  
for (item in value)  
append(item)  
return this  
}
Appends all arguments to the given StringBuilder.  
public fun StringBuilder.append(vararg value: Any?): StringBuilder {  
for (item in value)  
append(item)  
return this  
}
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Use of this source code is governed by the Apache 2.0 license that can be found in  
the license/LICENSE.txt file.  
package kotlin.dom  
import org.w3c.dom.\*  
Gets a value indicating whether this node is a TEXT\_NODE or a CDATA\_SECTION\_NODE.  
public val Node.isText: Boolean  
get() = nodeType == Node.TEXT\_NODE || nodeType == Node.CDATA\_SECTION\_NODE  
Gets a value indicating whether this node is an [Element].  
public val Node.isElement: Boolean  
get() = nodeType == Node.ELEMENT\_NODE  
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Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.  
package org.w3c.dom.events  
public fun EventListener(handler: (Event) -> Unit): EventListener = EventListenerHandler(handler)  
private class EventListenerHandler(private val handler: (Event) -> Unit) : EventListener {  
public override fun handleEvent(event: Event) {  
handler(event)  
}  
public override fun toString():  
String = "EventListenerHandler(\$handler)"  
}
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.  
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.  
package org.w3c.dom  
public external interface  
ItemArrayLike<out T> {  
val length: Int  
fun item(index: Int): T?  
}
Returns the view of this `ItemArrayLike<T>` collection as `List<T>`.  
public fun <T> ItemArrayLike<T>.asList(): List<T> = object : AbstractList<T>() {  
override val size: Int get() = this@asList.length  
override fun get(index: Int): T = when (index) {  
in 0..lastIndex -> this@asList.item(index).unsafeCast<T>()  
else -> throw  
IndexOutOfBoundsException("index \$index is not in range [0..\$lastIndex]")  
}  
}
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2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\nimport
org.w3c.dom.*\n\n/** Removes all the children from this node. */\npublic fun Node.clear() {\n while
(hasChildNodes()) {\n removeChild(firstChild!)\n }\n}\n\n/**\n * Creates text node and append it to the
element.\n */\n * @return this element\n */\nfun Element.appendText(text: String): Element {\n
appendChild(ownerDocument!!.createTextNode(text))\n return this}\n\n", /*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Reinterprets this value
as a value of the [dynamic type](/docs/reference/dynamic-type.html).\n */\n@kotlin.internal.InlineOnly\npublic
inline fun Any?.asDynamic(): dynamic = this\n\n/**\n * Reinterprets this value as a value of the specified type [T]
without any actual
type checking.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Any?.unsafeCast():
@kotlin.internal.NoInfer T = this.asDynamic()\n\n/**\n * Reinterprets this `dynamic` value as a value of the
specified type [T] without any actual type checking.\n
*/\n@kotlin.internal.DynamicExtension\n@JsName("unsafeCastDynamic")\n@kotlin.internal.InlineOnly\npublic
inline fun <T> dynamic.unsafeCast(): @kotlin.internal.NoInfer T = this\n\n/**\n * Allows to iterate this `dynamic`
object in the following cases:\n * - when it has an `iterator` function,\n * - when it is an array\n * - when it is an
instance of [kotlin.collections.Iterable]\n */\n@kotlin.internal.DynamicExtension\npublic operator fun
dynamic.iterator(): Iterator<dynamic> {\n val r: Any? = this\n\n return when {\n this["iterator"] != null -
->\n this["iterator"]()\n isArrayish(r) ->\n r.unsafeCast<Array<*>>().iterator()\n\n else ->\n
(r as Iterable<*>).iterator()\n
}\n}\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// a
package is omitted to get declarations directly under the module\n\n@JsName("throwNPE")\ninternal fun
throwNPE(message: String) {\n throw NullPointerException(message)\n}\n\n@JsName("throwCCE")\ninternal
fun throwCCE() {\n throw ClassCastException("Illegal cast")\n}\n\n@JsName("throwISE")\ninternal fun
throwISE(message: String) {\n throw IllegalStateException(message)\n}\n\n@JsName("throwUPAE")\ninternal
fun throwUPAE(propertyName: String) {\n throw UninitializedPropertyAccessException("lateinit property
${propertyName} has not been initialized")\n}\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt
file.\n */\n\npackage kotlin\n\n// NOTE: Do not author your exceptions as they are written in this file, instead use
this template:\n\n/**\npublic open class MyException : Exception {\n constructor() : super()\n constructor(message:
String?) : super(message)\n constructor(message: String?, cause: Throwable?) : super(message, cause)\n
constructor(cause: Throwable?) : super(cause)\n}\n\n*/\n\n// TODO: remove workarounds for KT-22053 from
direct Throwable inheritors\n// TODO: remove primary constructors, make all secondary KT-
22055\n\n@Suppress("USELESS_ELVIS_RIGHT_IS_NULL")\npublic actual open class Error actual
constructor(message: String?, cause: Throwable?) : Throwable(message, cause ? : null) {\n actual constructor() :
this(null, null) {\n Error::class.js.asDynamic().call(this, null, null)\n }\n\n actual constructor(message:
String?) : this(message, null) {\n Error::class.js.asDynamic().call(this, message, null)\n }\n\n actual
constructor(cause: Throwable?) : this(undefiend, cause) {\n Error::class.js.asDynamic().call(this, undefiend,
cause)\n }\n}\n\n@Suppress("USELESS_ELVIS_RIGHT_IS_NULL")\npublic actual open class Exception
actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ? : null) {\n actual
constructor() : this(null, null) {\n Exception::class.js.asDynamic().call(this, null, null)\n }\n\n actual
constructor(message: String?) : this(message, null) {\n Exception::class.js.asDynamic().call(this, message,
null)\n }\n\n actual constructor(cause: Throwable?) : this(undefiend, cause) {\n
Exception::class.js.asDynamic().call(this, undefiend, cause)\n }\n}\n\npublic actual open class RuntimeException
actual constructor(message: String?, cause: Throwable?) : Exception(message, cause) {\n actual constructor() :
this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:

```





elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially, passing the

previously accumulated value and the current element as arguments, and stores the results in the given [destination] map. An initial value of accumulator is provided by [initialValueSelector] function. @param initialValueSelector a function that provides an initial value of accumulator for each group. It's invoked with parameters: - `key`: the key of the group; - `element`: the first element being encountered in that group. If the [destination] map already has a value corresponding to some key, that value is used as an initial value of the accumulator for that group and the [initialValueSelector] function is not called for that group. @param operation a function that is invoked on each element with the following parameters: - `key`: the key of the group this element belongs to; - `accumulator`: the current value of the accumulator of the group; - `element`: the element from the source being accumulated. @return the

[destination] map associating the key of each group with the result of accumulating the group elements. @sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValueTo destination: M, initialValueSelector: (key: K, element: T) -> R, operation: (key: K, accumulator: R, element: T) -> R: M = @Suppress("UNCHECKED\_CAST") aggregateTo(destination) { key, acc, e, first -> operation(key, if (first) initialValueSelector(key, e) else acc as R, e) } Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in a new map. An initial value of accumulator is the same [initialValue] for each group. @param operation a function that is invoked on each element with

the following parameters: - `accumulator`: the current value of the accumulator of the group; - `element`: the element from the source being accumulated. @return a [Map] associating the key of each group with the result of accumulating the group elements. @sample

samples.collections.Grouping.foldByEvenLengthWithConstantInitialValue @SinceKotlin("1.1") public inline fun <T, K, R> Grouping<T, K>.fold(initialValue: R, operation: (accumulator: R, element: T) -> R): Map<K, R> = @Suppress("UNCHECKED\_CAST") aggregate { \_, acc, e, first -> operation(if (first) initialValue else acc as R, e) } Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in the given [destination] map. An initial value of accumulator is the same [initialValue] for each group.

If the [destination] map already has a value corresponding to the key of some group, that value is used as an initial value of the accumulator for that group. @param operation a function that is invoked on each element with the following parameters: - `accumulator`: the current value of the accumulator of the group; - `element`: the element from the source being accumulated. @return the [destination] map associating the key of each group with the result of accumulating the group elements. @sample

samples.collections.Grouping.foldByEvenLengthWithConstantInitialValueTo @SinceKotlin("1.1") public inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(destination: M, initialValue: R, operation: (accumulator: R, element: T) -> R): M = @Suppress("UNCHECKED\_CAST") aggregateTo(destination) { \_, acc, e, first -> operation(if (first) initialValue else acc as R, e) } Groups elements from the

[Grouping] source by key and applies the reducing [operation] to the elements of each group sequentially starting from the second element of the group, passing the previously accumulated value and the current element as arguments, and stores the results in a new map. An initial value of accumulator is the first element of the group. @param operation a function that is invoked on each subsequent element of the group with the following parameters: - `key`: the key of the group this element belongs to; - `accumulator`: the current value of the accumulator of the group; - `element`: the element from the source being accumulated. @return a [Map] associating the key of each group with the result of accumulating the group elements. @sample

```

samples.collections.Grouping.reduceByMaxVowels\n *\n@SinceKotlin("1.1")\npublic inline fun <S, T : S, K>
Grouping<T, K>.reduce(\n operation: (key: K, accumulator: S, element: T) -> S)\n: Map<K, S>
=\n aggregate { key, acc, e, first ->\n @Suppress("UNCHECKED_CAST")\n if (first) e else
operation(key, acc as S, e)\n }\n\n/**\n * Groups elements from the [Grouping] source by key and applies the
reducing [operation] to the elements of each group\n * sequentially starting from the second element of the group,\n * passing the previously accumulated value and the current element as arguments,\n * and stores the results in the
given [destination] map.\n * An initial value of accumulator is the first element of the group.\n *\n * If the
[destination] map already has a value corresponding to the key of some group,\n * that value is used as an initial
value of the accumulator for that group and the first element of that group is also\n * subjected to the
[operation].\n *\n * @param operation a function that is invoked on each subsequent element of the group with the
following parameters:\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`:
the element from the source being folded;\n *\n * @return the [destination] map associating the key of each group
with the result of accumulating the group elements.\n *\n @sample
samples.collections.Grouping.reduceByMaxVowelsTo\n *\n@SinceKotlin("1.1")\npublic inline fun <S, T : S, K,
M : MutableMap<in K, S>> Grouping<T, K>.reduceTo(\n destination: M,\n operation: (key: K, accumulator: S,
element: T) -> S)\n: M =\n aggregateTo(destination) { key, acc, e, first ->\n
@Suppress("UNCHECKED_CAST")\n if (first) e else operation(key, acc as S, e)\n }\n\n\n/**\n * Groups
elements from the [Grouping] source by key and counts elements in each group to the given [destination] map.\n *\n
* If the [destination] map already has a value corresponding to the key of some group,\n * that value is used as an
initial value of the counter for that group.\n *\n * @return the [destination] map associating the key of each group
with the count of elements in the group.\n *\n
* @sample samples.collections.Grouping.groupingByEachCount\n *\n@SinceKotlin("1.1")\npublic fun <T, K,
M : MutableMap<in K, Int>> Grouping<T, K>.eachCountTo(destination: M): M =\n foldTo(destination, 0) { acc,
_ -> acc + 1 }\n\n\n/**\n * Groups elements from the [Grouping] source by key and sums values provided by the
[valueSelector] function for elements in each group\n * to the given [destination] map.\n *\n *\n * If the
[destination] map already has a value corresponding to the key of some group,\n * that value is used as an initial
value of the sum for that group.\n *\n * @return the [destination] map associating the key of each group with the
sum of elements in the group.\n *\n@SinceKotlin("1.1")\npublic inline fun <T, K, M : MutableMap<in K, Int>>
Grouping<T, K>.eachSumOfTo(destination: M, valueSelector: (T) -> Int): M =\n foldTo(destination, 0) { acc, e
-> acc + valueSelector(e)}\n\n\n/**\n * TODO: sum by long and by double overloads\n\npublic inline fun <T,
K, M : MutableMap<in K, Long>> Grouping<T, K>.sumEachByLongTo(destination: M, valueSelector: (T) ->
Long): M =\n foldTo(destination, 0L) { acc, e -> acc + valueSelector(e)}\n\npublic inline fun <T, K>
Grouping<T, K>.sumEachByLong(valueSelector: (T) -> Long): Map<K, Long> =\n fold(0L) { acc, e -> acc +
valueSelector(e)}\n\npublic inline fun <T, K, M : MutableMap<in K, Double>> Grouping<T,
K>.sumEachByDoubleTo(destination: M, valueSelector: (T) -> Double): M =\n foldTo(destination, 0.0) { acc, e
-> acc + valueSelector(e)}\n\npublic inline fun <T, K> Grouping<T, K>.sumEachByDouble(valueSelector: (T) ->
Double): Map<K, Double> =\n fold(0.0) { acc, e -> acc + valueSelector(e)}\n\n\n/**\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\npackage kotlin.js\n\n/**\n * Exposes
the JavaScript [Math object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Math)
to Kotlin.\n *\n@Deprecated("Use top-level functions from kotlin.math package instead.", level =
DeprecationLevel.WARNING)\npublic external object Math {\n @Deprecated("Use kotlin.math.PI instead.",
ReplaceWith("PI", "kotlin.math.PI"), level = DeprecationLevel.ERROR)\n public val PI: Double\n
@Deprecated("Use Random.nextDouble instead", ReplaceWith("kotlin.random.Random.nextDouble()"),
"kotlin.random.Random"), level = DeprecationLevel.WARNING)\n public fun random(): Double\n
@Deprecated("Use kotlin.math.abs instead.", ReplaceWith("abs(value)", "kotlin.math.abs"), level =
DeprecationLevel.ERROR)\n public fun abs(value: Double): Double\n @Deprecated("Use kotlin.math.acos
instead.", ReplaceWith("acos(value)", "kotlin.math.acos"), level = DeprecationLevel.ERROR)\n public fun

```

```

acos(value: Double): Double\n  @Deprecated("Use kotlin.math.asin instead.", ReplaceWith("asin(value)",
  "kotlin.math.asin"), level = DeprecationLevel.ERROR)\n  public fun asin(value: Double): Double\n
@Deprecated("Use kotlin.math.atan instead.", ReplaceWith("atan(value)", "kotlin.math.atan"), level =
DeprecationLevel.ERROR)\n  public fun atan(value: Double): Double\n  @Deprecated("Use kotlin.math.atan2
instead.", ReplaceWith("atan2(y, x)", "kotlin.math.atan2"), level = DeprecationLevel.ERROR)\n  public fun
atan2(y: Double, x: Double): Double\n  @Deprecated("Use kotlin.math.cos instead.",
ReplaceWith("cos(value)", "kotlin.math.cos"), level = DeprecationLevel.ERROR)\n  public fun cos(value:
Double): Double\n  @Deprecated("Use kotlin.math.sin instead.", ReplaceWith("sin(value)", "kotlin.math.sin"),
level = DeprecationLevel.ERROR)\n  public fun sin(value: Double): Double\n  @Deprecated("Use
kotlin.math.exp instead.", ReplaceWith("exp(value)", "kotlin.math.exp"), level = DeprecationLevel.ERROR)\n
public fun exp(value:
Double): Double\n  @Deprecated("Use maxOf or kotlin.math.max instead", level =
DeprecationLevel.ERROR)\n  public fun max(vararg values: Int): Int\n  @Deprecated("Use maxOf or
kotlin.math.max instead", level = DeprecationLevel.ERROR)\n  public fun max(vararg values: Float): Float\n
@Deprecated("Use maxOf or kotlin.math.max instead", level = DeprecationLevel.ERROR)\n  public fun
max(vararg values: Double): Double\n  @Deprecated("Use minOf or kotlin.math.min instead", level =
DeprecationLevel.ERROR)\n  public fun min(vararg values: Int): Int\n  @Deprecated("Use minOf or
kotlin.math.min instead", level = DeprecationLevel.ERROR)\n  public fun min(vararg values: Float): Float\n
@Deprecated("Use minOf or kotlin.math.min instead", level = DeprecationLevel.ERROR)\n  public fun
min(vararg values: Double): Double\n  @Deprecated("Use kotlin.math.sqrt instead.",
ReplaceWith("sqrt(value)", "kotlin.math.sqrt"), level = DeprecationLevel.ERROR)\n
public fun sqrt(value: Double): Double\n  @Deprecated("Use kotlin.math.tan instead.",
ReplaceWith("tan(value)", "kotlin.math.tan"), level = DeprecationLevel.ERROR)\n  public fun tan(value:
Double): Double\n  @Deprecated("Use kotlin.math.ln instead.", ReplaceWith("ln(value)", "kotlin.math.ln"),
level = DeprecationLevel.ERROR)\n  public fun log(value: Double): Double\n  @Deprecated("Use
kotlin.math.pow instead.", ReplaceWith("base.pow(exp)", "kotlin.math.pow"), level =
DeprecationLevel.ERROR)\n  public fun pow(base: Double, exp: Double): Double\n  @Deprecated("Use
kotlin.math.round instead.", ReplaceWith("round(value)", "kotlin.math.round"), level =
DeprecationLevel.ERROR)\n  public fun round(value: Number): Int\n  @Deprecated("Use kotlin.math.floor
instead.", ReplaceWith("floor(value)", "kotlin.math.floor"), level = DeprecationLevel.ERROR)\n  public fun
floor(value: Number): Int\n  @Deprecated("Use kotlin.math.ceil instead.", ReplaceWith("ceil(value)",
"kotlin.math.ceil"), level = DeprecationLevel.ERROR)\n  public fun ceil(value: Number): Int\n\n
@PublishedApi\n  internal fun trunc(value: Number): Double\n  @PublishedApi\n  internal fun sign(value:
Number): Double\n\n  @PublishedApi\n  internal fun sinh(value: Double): Double\n  @PublishedApi\n
internal fun cosh(value: Double): Double\n  @PublishedApi\n  internal fun tanh(value: Double): Double\n
@PublishedApi\n  internal fun asinh(value: Double): Double\n  @PublishedApi\n  internal fun acosh(value:
Double): Double\n  @PublishedApi\n  internal fun atanh(value: Double): Double\n\n  @PublishedApi\n
internal fun hypot(x: Double, y: Double): Double\n\n  @PublishedApi\n  internal fun expm1(value: Double):
Double\n\n  @PublishedApi\n  internal fun log10(value: Double): Double\n  @PublishedApi\n  internal fun
log2(value: Double): Double\n  @PublishedApi\n  internal fun log1p(value: Double): Double\n\n
@PublishedApi\n
  internal fun clz32(value: Int): Int\n}\n\n/**\n * Returns the smaller of two values.\n
*/\n\n@Suppress("DEPRECATION")\n@Deprecated("Use minOf or kotlin.math.min instead",
ReplaceWith("minOf(a, b)"), level = DeprecationLevel.ERROR)\npublic fun Math.min(a: Long, b: Long): Long =
if (a <= b) a else b\n\n/**\n * Returns the greater of two values.\n
*/\n\n@Suppress("DEPRECATION")\n@Deprecated("Use maxOf or kotlin.math.max instead",
ReplaceWith("maxOf(a, b)"), level = DeprecationLevel.ERROR)\npublic fun Math.max(a: Long, b: Long): Long =
if (a >= b) a else b\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language

```



`nativeMath.atan(x)` Returns the angle  $\theta$  of the polar coordinates  $(r, \theta)$  that correspond to the rectangular coordinates  $(x, y)$  by computing the arc tangent of the value  $y / x$ ; the returned value is an angle in the range from  $-\pi$  to  $\pi$  radians.

**Special cases:**

- `atan2(0.0, 0.0)` is `0.0`
- `atan2(0.0, x)` is `0.0` for  $x > 0$  and  `$\pi$`  for  $x < 0$
- `atan2(-0.0, x)` is `-0.0` for  $x > 0$  and  `$-\pi$`  for  $x < 0$
- `atan2(y, +Inf)` is `0.0` for  $0 < y < +\infty$  and `-0.0` for  $-\infty < y < 0$
- `atan2(y, -Inf)` is  `$\pi$`  for  $0 < y < +\infty$  and  `$-\pi$`  for  $-\infty < y < 0$
- `atan2(y, 0.0)` is  `$\pi/2$`  for  $y > 0$  and  `$-\pi/2$`  for  $y < 0$
- `atan2(+Inf, x)` is  `$\pi/2$`  for finite  $x \neq 0$
- `atan2(-Inf, x)` is  `$-\pi/2$`  for finite  $x \neq 0$
- `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun atan2(y: Double, x: Double): Double = nativeMath.atan2(y, x)
    
```

**Computes the hyperbolic sine of the value  $x$ .**

**Special cases:**

- `sinh(NaN)` is `NaN`
- `sinh(+Inf)` is  `$+\infty$`
- `sinh(-Inf)` is  `$-\infty$`

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun sinh(x: Double): Double = nativeMath.sinh(x)
    
```

**Computes the hyperbolic cosine of the value  $x$ .**

**Special cases:**

- `cosh(NaN)` is `NaN`
- `cosh(+Inf)` is  `$+\infty$`
- `cosh(-Inf)` is  `$+\infty$`

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun cosh(x: Double): Double = nativeMath.cosh(x)
    
```

**Computes the hyperbolic tangent of the value  $x$ .**

**Special cases:**

- `tanh(NaN)` is `NaN`
- `tanh(+Inf)` is `1.0`
- `tanh(-Inf)` is `-1.0`

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun tanh(x: Double): Double = nativeMath.tanh(x)
    
```

**Computes the inverse hyperbolic sine of the value  $x$ .** The returned value is  $y$  such that  $\sinh(y) = x$ .

**Special cases:**

- `asinh(NaN)` is `NaN`
- `asinh(+Inf)` is  `$+\infty$`
- `asinh(-Inf)` is  `$-\infty$`

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun asinh(x: Double): Double = nativeMath.asinh(x)
    
```

**Computes the inverse hyperbolic cosine of the value  $x$ .** The returned value is positive  $y$  such that  $\cosh(y) = x$ .

**Special cases:**

- `acosh(NaN)` is `NaN`
- `acosh(x)` is `NaN` when  $x < 1$
- `acosh(+Inf)` is  `$+\infty$`

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun acosh(x: Double): Double = nativeMath.acosh(x)
    
```

**Computes the inverse hyperbolic tangent of the value  $x$ .** The returned value is  $y$  such that  $\tanh(y) = x$ .

**Special cases:**

- `atanh(NaN)` is `NaN`
- `atanh(x)` is `NaN` when  $x > 1$  or  $x < -1$
- `atanh(1.0)` is  `$+\infty$`
- `atanh(-1.0)` is  `$-\infty$`

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun atanh(x: Double): Double = nativeMath.atanh(x)
    
```

**Computes  $\sqrt{x^2 + y^2}$  without intermediate overflow or underflow.**

**Special cases:**

- returns  `$+\infty$`  if any of arguments is infinite
- returns `NaN` if any of arguments is `NaN` and the other is not infinite

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun hypot(x: Double, y: Double): Double = nativeMath.hypot(x, y)
    
```

**Computes the positive square root of the value  $x$ .**

**Special cases:**

- `sqrt(x)` is `NaN` when  $x < 0$  or  $x$  is `NaN`

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun sqrt(x: Double): Double = nativeMath.sqrt(x)
    
```

**Computes Euler's number  $e$  raised to the power of the value  $x$ .**

**Special cases:**

- `exp(NaN)` is `NaN`
- `exp(+Inf)` is  `$+\infty$`
- `exp(-Inf)` is `0.0`

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun exp(x: Double): Double = nativeMath.exp(x)
    
```

**Computes  $\exp(x) - 1$ .** This function can be implemented to produce more precise result for  $x$  near zero.

**Special cases:**

- `expm1(NaN)` is `NaN`
- `expm1(+Inf)` is  `$+\infty$`
- `expm1(-Inf)` is `-1.0`

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun expm1(x: Double): Double = nativeMath.expm1(x)
    
```

**Computes the logarithm of the value  $x$  to the given  $base$ .**

**Special cases:**

- `log(x, b)` is `NaN` if either  $x$  or  $b$  are `NaN`
- `log(x, b)` is `NaN` when  $x < 0$  or  $b \leq 0$  or  $b = 1.0$
- `log(+Inf, +Inf)` is `NaN`
- `log(+Inf, b)` is  `$+\infty$`  for  $b > 1$  and  `$-\infty$`  for  $b < 1$
- `log(0.0, b)` is  `$-\infty$`  for  $b > 1$  and  `$+\infty$`  for  $b < 1$

See also logarithm functions for common fixed bases: `[ln]`, `[log10]` and `[log2]`.

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun log(x: Double, base: Double): Double {
    if (base <= 0.0 || base == 1.0) return Double.NaN
    return nativeMath.log(x) / nativeMath.log(base)
}
    
```

**Computes the natural logarithm (base  $E$ ) of the value  $x$ .**

**Special cases:**

- `ln(NaN)` is `NaN`
- `ln(x)` is `NaN` when  $x < 0.0$
- `ln(+Inf)` is  `$+\infty$`

```

`ln(0.0)` is  $-\infty$ 
@SinceKotlin("1.2")\n@InlineOnly\npublic
actual inline fun ln(x: Double): Double = nativeMath.log(x)\n\n/**
 * Computes the common logarithm (base 10)
of the value [x].
 * @see [ln] function for special cases.
@SinceKotlin("1.2")\n@InlineOnly\npublic
actual inline fun log10(x: Double): Double = nativeMath.log10(x)\n\n/**
 * Computes the binary logarithm (base
2) of the value [x].
 * @see [ln] function for special cases.
@SinceKotlin("1.2")\n@InlineOnly\npublic
actual inline fun log2(x: Double): Double = nativeMath.log2(x)\n\n/**
 * Computes  $\ln(x + 1)$ .
 * This
function can be implemented to produce more precise result for [x] near zero.
 * Special cases:
 * -  $\ln1p(\text{NaN})$  is  $\text{NaN}$ 
 * -  $\ln1p(x)$  is  $\text{NaN}$  where  $x < -1.0$ 
 * -  $\ln1p(-1.0)$  is  $-\infty$ 
 * -  $\ln1p(+\infty)$  is  $+\infty$ 
 * @see [ln] function
 * @see [expm1] function
@SinceKotlin("1.2")\n@InlineOnly\npublic
actual inline fun ln1p(x: Double): Double = nativeMath.log1p(x)\n\n/**
 * Rounds the given value [x] to an integer towards positive infinity.
 * @return the smallest double value that is
greater than or equal to the given value [x] and is a mathematical integer.
 * Special cases:
 * -  $\text{ceil}(x)$  is  $x$ 
where  $x$  is  $\text{NaN}$  or  $+\infty$  or  $-\infty$  or already a mathematical integer.
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun ceil(x: Double): Double =
nativeMath.ceil(x).unsafeCast<Double>() // TODO: Remove unsafe cast after removing public js.math\n\n/**
 * Rounds the given value [x] to an integer towards negative infinity.
 * @return the largest double value that is
smaller than or equal to the given value [x] and is a mathematical integer.
 * Special cases:
 * -  $\text{floor}(x)$  is
 $x$  where  $x$  is  $\text{NaN}$  or  $+\infty$  or  $-\infty$  or already a mathematical integer.
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun floor(x: Double): Double =
nativeMath.floor(x).unsafeCast<Double>()\n\n/**
 * Rounds the
given value [x] to an integer towards zero.
 * @return the value [x] having its fractional part truncated.
 * Special cases:
 * -  $\text{truncate}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\infty$  or  $-\infty$  or already a mathematical integer.
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun truncate(x: Double): Double =
nativeMath.trunc(x)\n\n/**
 * Rounds the given value [x] towards the closest integer with ties rounded towards
even integer.
 * Special cases:
 * -  $\text{round}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\infty$  or  $-\infty$  or already a
mathematical integer.
@SinceKotlin("1.2")\npublic actual fun round(x: Double): Double {
    if (x % 0.5 !=
0.0) {
        return nativeMath.round(x).unsafeCast<Double>()
    }
    val floor = floor(x)
    return if (floor % 2
== 0.0) floor else ceil(x)
}\n\n/**
 * Returns the absolute value of the given value [x].
 * Special cases:
 * -  $\text{abs}(\text{NaN})$  is  $\text{NaN}$ 
 * @see absoluteValue extension property for [Double]
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun abs(x: Double): Double =
nativeMath.abs(x)\n\n/**
 * Returns the sign of the given value [x]:
 * -  $-1.0$  if the value is negative,
 * - zero
if the value is zero,
 * -  $1.0$  if the value is positive
 * Special case:
 * -  $\text{sign}(\text{NaN})$  is  $\text{NaN}$ 
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sign(x: Double): Double =
nativeMath.sign(x)\n\n/**
 * Returns the smaller of two values.
 * Special cases:
 * -  $\text{min}(\text{NaN}, \text{NaN})$  is  $\text{NaN}$ 
 * @see kotlin.math.min
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun min(a: Double, b: Double): Double =
nativeMath.min(a, b)\n\n/**
 * Returns the greater of two values.
 * Special cases:
 * -  $\text{max}(\text{NaN}, \text{NaN})$  is  $\text{NaN}$ 
 * @see kotlin.math.max
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun max(a: Double, b: Double): Double =
nativeMath.max(a, b)\n\n/**
 * Raises this value to the power [x].
 * Special cases:
 * -
 $b.\text{pow}(0.0)$  is  $1.0$ 
 * -  $b.\text{pow}(1.0) == b$ 
 * -  $b.\text{pow}(\text{NaN})$  is  $\text{NaN}$ 
 * -  $\text{NaN}.\text{pow}(x)$  is  $\text{NaN}$  for  $x !=
0.0$ 
 * -  $b.\text{pow}(\text{Inf})$  is  $\text{NaN}$  for  $\text{abs}(b) == 1.0$ 
 * -  $b.\text{pow}(x)$  is  $\text{NaN}$  for  $b < 0$  and  $x$  is finite and not
an integer
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Double.pow(x: Double): Double =
nativeMath.pow(this, x)\n\n/**
 * Raises this value to the integer power [n].
 * Special cases:
 * -  $\text{pow}(n)$  for details.
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Double.pow(n: Int): Double =
nativeMath.pow(this, n.toDouble())\n\n/**
 * Returns the absolute value of this value.
 * Special cases:
 * -
 $\text{NaN}.\text{absoluteValue}$  is  $\text{NaN}$ 
 * @see abs function
@SinceKotlin("1.2")\n@InlineOnly\npublic
actual inline val Double.absoluteValue: Double get() = nativeMath.abs(this)\n\n/**
 * Returns the sign of this
value:
 * -  $-1.0$  if the value is negative,
 * - zero if the value is zero,

```

- `1.0` if the value is positive  
`*\n * Special case:\n * - `NaN.sign` is `NaN`\n`

```
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Double.sign: Double get() =
nativeMath.sign(this)\n\n**\n * Returns this value with the sign bit same as of the [sign] value.\n
```

```
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Double.withSign(sign: Int): Double =
this.withSign(sign.toDouble())\n\n**\n * Returns the ulp (unit in the last place) of this value.\n * An ulp is a
positive distance between this value and the next nearest [Double] value larger in magnitude.\n * Special
Cases:\n * - `NaN.ulp` is `NaN`\n * - `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`\n * - `0.0.ulp` is
`Double.MIN_VALUE`\n *@\n@SinceKotlin("1.2")\npublic actual val Double.ulp: Double get() = when {\n this
< 0 -> (-this).ulp\n this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n this ==
Double.MAX_VALUE -> this - this.nextDown()\n else -> this.nextUp() - this\n}\n\n**\n
* Returns the [Double] value nearest to this value in direction of positive infinity.\n
```

```
*\n@SinceKotlin("1.2")\npublic actual fun Double.nextUp(): Double = when {\n this.isNaN() || this ==
Double.POSITIVE_INFINITY -> this\n this == 0.0 -> Double.MIN_VALUE\n else ->
Double.fromBits(this.toRawBits() + if (this > 0) 1 else -1)\n}\n\n**\n * Returns the [Double] value nearest to this
value in direction of negative infinity.\n *@\n@SinceKotlin("1.2")\npublic actual fun Double.nextDown(): Double =
when {\n this.isNaN() || this == Double.NEGATIVE_INFINITY -> this\n this == 0.0 -> -
Double.MIN_VALUE\n else -> Double.fromBits(this.toRawBits() + if (this > 0) -1 else 1)\n}\n\n**\n * Returns
the [Double] value nearest to this value in direction from this value towards the value [to].\n * Special cases:\n *
- `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`\n * - `x.nextTowards(x) == x`\n *@\n@SinceKotlin("1.2")\npublic actual fun Double.nextTowards(to:
Double): Double = when {\n this.isNaN() || to.isNaN() -> Double.NaN\n to == this -> to\n to > this ->
this.nextUp()\n else /* to < this */ -> this.nextDown()\n}\n\n**\n * Rounds this [Double] value to the nearest
integer and converts the result to [Int].\n * Ties are rounded towards positive infinity.\n * Special cases:\n * -
`x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * - `x.roundToInt() == Int.MIN_VALUE`
when `x < Int.MIN_VALUE`\n * * @throws IllegalArgumentException when this value is `NaN`\n
```

```
*\n@SinceKotlin("1.2")\npublic actual fun Double.roundToInt(): Int = when {\n isNaN() -> throw
IllegalArgumentException("Cannot round NaN value.")\n this > Int.MAX_VALUE -> Int.MAX_VALUE\n this < Int.MIN_VALUE -> Int.MIN_VALUE\n else ->
nativeMath.round(this).unsafeCast<Double>().toInt()\n}\n\n**\n * Rounds this [Double] value to the nearest
integer and converts the result to [Long].\n * Ties are rounded towards positive
infinity.\n * Special cases:\n * - `x.roundToLong() == Long.MAX_VALUE` when `x >
Long.MAX_VALUE`\n * - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n * * @throws
IllegalArgumentException when this value is `NaN`\n *@\n@SinceKotlin("1.2")\npublic actual fun
Double.roundToLong(): Long = when {\n isNaN() -> throw IllegalArgumentException("Cannot round NaN
value.")\n this > Long.MAX_VALUE -> Long.MAX_VALUE\n this < Long.MIN_VALUE ->
Long.MIN_VALUE\n else -> nativeMath.round(this).unsafeCast<Double>().toLong()\n}\n\n// endregion\n\n**\n
Computes the sine of the angle [x] given in radians.\n * Special cases:\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\n
```

```
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sin(x: Float): Float =
nativeMath.sin(x.toDouble()).toFloat()\n\n**\n * Computes the cosine of the angle [x] given in radians.\n * Special
cases:\n
* - `cos(NaN|+Inf|-Inf)` is `NaN`\n *@\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun cos(x:
Float): Float = nativeMath.cos(x.toDouble()).toFloat()\n\n**\n * Computes the tangent of the angle [x] given in
radians.\n * Special cases:\n * - `tan(NaN|+Inf|-Inf)` is `NaN`\n
```

```
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun tan(x: Float): Float =
nativeMath.tan(x.toDouble()).toFloat()\n\n**\n * Computes the arc sine of the value [x],\n * the returned value is
an angle in the range from `-PI/2` to `PI/2` radians.\n * Special cases:\n * - `asin(x)` is `NaN`, when `abs(x) >
1` or x is `NaN`\n *@\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun asin(x: Float): Float =
```

`nativeMath.asin(x.toDouble()).toFloat()` \n\n/\*\*\n \* Computes the arc cosine of the value [x];\n \* the returned value is an angle in the range from `0.0` to `PI` radians.\n \* \n \* Special cases:\n \* - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic\n\n actual inline fun acos(x: Float): Float = nativeMath.acos(x.toDouble()).toFloat()\n\n\n /\*\*\n \* Computes the arc tangent of the value [x];\n \* the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n \* \n \* Special cases:\n \* - `atan(NaN)` is `NaN`\n \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic\n\n actual inline fun atan(x: Float): Float = nativeMath.atan(x.toDouble()).toFloat()\n\n\n /\*\*\n \* Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n \* to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\n \* the returned value is an angle in the range from `-PI` to `PI` radians.\n \* \n \* Special cases:\n \* - `atan2(0.0, 0.0)` is `0.0`\n \* - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\n \* - `atan2(-0.0, x)` is `-0.0` for `x > 0` and `-PI` for `x < 0`\n \* - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for `-Inf < y < 0`\n \* - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\n \* - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\n \* - `atan2(+Inf, x)` is `PI/2` for finite `x` y\n \* - `atan2(-Inf, x)` is `-PI/2` for finite `x`\n \* - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic\n\n actual inline fun atan2(y: Float, x: Float): Float = nativeMath.atan2(y.toDouble(), x.toDouble()).toFloat()\n\n\n /\*\*\n \* Computes the hyperbolic sine of the value [x].\n \* \n \* Special cases:\n \* - `sinh(NaN)` is `NaN`\n \* - `sinh(+Inf)` is `+Inf`\n \* - `sinh(-Inf)` is `-Inf`\n \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic\n\n actual inline fun sinh(x: Float): Float = nativeMath.sinh(x.toDouble()).toFloat()\n\n\n /\*\*\n \* Computes the hyperbolic cosine of the value [x].\n \* \n \* Special cases:\n \* - `cosh(NaN)` is `NaN`\n \* - `cosh(+Inf|-Inf)` is `+Inf`\n \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic\n\n actual inline fun cosh(x: Float): Float = nativeMath.cosh(x.toDouble()).toFloat()\n\n\n /\*\*\n \* Computes the hyperbolic tangent of the value [x].\n \* \n \* Special cases:\n \* - `tanh(NaN)` is `NaN`\n \* - `tanh(+Inf)` is `1.0`\n \* - `tanh(-Inf)` is `-1.0`\n \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic\n\n actual inline fun tanh(x: Float): Float = nativeMath.tanh(x.toDouble()).toFloat()\n\n\n /\*\*\n \* Computes the inverse hyperbolic sine of the value [x].\n \* \n \* The returned value is `y` such that `sinh(y) == x`.\n \* \n \* Special cases:\n \* - `asinh(NaN)` is `NaN`\n \* - `asinh(+Inf)` is `+Inf`\n \* - `asinh(-Inf)` is `-Inf`\n \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic\n\n actual inline fun asinh(x: Float): Float = nativeMath.asinh(x.toDouble()).toFloat()\n\n\n /\*\*\n \* Computes the inverse hyperbolic cosine of the value [x].\n \* \n \* The returned value is positive `y` such that `cosh(y) == x`.\n \* \n \* Special cases:\n \* - `acosh(NaN)` is `NaN`\n \* - `acosh(x)` is `NaN` when `x < 1`\n \* - `acosh(+Inf)` is `+Inf`\n \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic\n\n actual inline fun acosh(x: Float): Float = nativeMath.acosh(x.toDouble()).toFloat()\n\n\n /\*\*\n \* Computes the inverse hyperbolic tangent of the value [x].\n \* \n \* The returned value is `y` such that `tanh(y) == x`.\n \* \n \* Special cases:\n \* - `atanh(NaN)` is `NaN`\n \* - `atanh(x)` is `NaN` when `x > 1` or `x < -1`\n \* - `atanh(1.0)` is `+Inf`\n \* - `atanh(-1.0)` is `-Inf`\n \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic\n\n actual inline fun atanh(x: Float): Float = nativeMath.atanh(x.toDouble()).toFloat()\n\n\n /\*\*\n \* Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\n \* \n \* Special cases:\n \* - returns `+Inf` if any of arguments is infinite\n \* - returns `NaN` if any of arguments is `NaN` and the other is not infinite\n \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic\n\n actual inline fun hypot(x: Float, y: Float): Float = nativeMath.hypot(x.toDouble(), y.toDouble()).toFloat()\n\n\n /\*\*\n \* Computes the positive square root of the value [x].\n \* \n \* Special cases:\n \* - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic\n\n actual inline fun sqrt(x: Float): Float = nativeMath.sqrt(x.toDouble()).toFloat()\n\n\n /\*\*\n \* Computes Euler's number `e` raised to the power of the value [x].\n \* \n \* Special cases:\n \* - `exp(NaN)` is `NaN`\n \* - `exp(+Inf)` is `+Inf`\n \* - `exp(-Inf)` is `0.0`\n \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic\n\n actual inline fun exp(x: Float): Float = nativeMath.exp(x.toDouble()).toFloat()\n\n\n /\*\*\n \* Computes `exp(x) - 1`.\n \* \n \* This function can be implemented to produce more precise result for [x] near zero.\n \* \n \* Special cases:\n \* - `expm1(NaN)` is `NaN`\n \* - `expm1(+Inf)` is `+Inf`\n \* - `expm1(-Inf)` is `-1.0`\n \* @see [exp] function.\n \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic\n\n actual inline fun expm1(x: Float): Float =

`nativeMath.expml(x.toDouble()).toFloat()` \n\n\*\*\n \* Computes the logarithm of the value [x] to the given [base].\n
 \*\n \* Special cases:\n
 \* - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n \* - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\n \* - `log(+Inf, +Inf)` is `NaN`\n \* - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\n \* - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\n\n \* See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n
 \*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun log(x: Float, base: Float): Float = log(x.toDouble(), base.toDouble()).toFloat()\n\n\*\*\n \* Computes the natural logarithm (base `E`) of the value [x].\n\n \* Special cases:\n \* - `ln(NaN)` is `NaN`\n \* - `ln(x)` is `NaN` when `x < 0.0`\n \* - `ln(+Inf)` is `+Inf`\n \* - `ln(0.0)` is `-Inf`\n\n\*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun ln(x: Float): Float = nativeMath.log(x.toDouble()).toFloat()\n\n\*\*\n \* Computes the common logarithm (base 10) of the value [x].\n\n \* @see [ln] function for special cases.\n\n\*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun log10(x: Float): Float = nativeMath.log10(x.toDouble()).toFloat()\n\n\*\*\n \* Computes the binary logarithm (base 2) of the value [x].\n\n \* @see [ln] function for special cases.\n\n\*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun log2(x: Float): Float = nativeMath.log2(x.toDouble()).toFloat()\n\n\*\*\n \* Computes `ln(a + 1)`. \n\n \* This function can be implemented to produce more precise result for [x] near zero.\n\n \* Special cases:\n \* - `ln1p(NaN)` is `NaN`\n \* - `ln1p(x)` is `NaN` where `x < -1.0`\n \* - `ln1p(-1.0)` is `-Inf`\n \* - `ln1p(+Inf)` is `+Inf`\n\n \* @see [ln] function\n \* @see [expml] function\n\n\*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun ln1p(x: Float): Float = nativeMath.log1p(x.toDouble()).toFloat()\n\n\*\*\n \* Rounds the given value [x] to an integer towards positive infinity.\n\n \* @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.\n\n \* Special cases:\n \* - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n\n\*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun ceil(x: Float): Float = nativeMath.ceil(x.toDouble()).toFloat()\n\n\*\*\n \* Rounds the given value [x] to an integer towards negative infinity.\n\n \* @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.\n\n \* Special cases:\n \* - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n\n\*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun floor(x: Float): Float = nativeMath.floor(x.toDouble()).toFloat()\n\n\*\*\n \* Rounds the given value [x] to an integer towards zero.\n\n \* @return the value [x] having its fractional part truncated.\n\n \* Special cases:\n \* - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n\n\*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun truncate(x: Float): Float = truncate(x.toDouble()).toFloat()\n\n\*\*\n \* Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n\n \* Special cases:\n \* - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n\n\*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun round(x: Float): Float = round(x.toDouble()).toFloat()\n\n\*\*\n \* Returns the absolute value of the given value [x].\n\n \* Special cases:\n \* - `abs(NaN)` is `NaN`\n\n \* @see absoluteValue extension property for [Float]\n\n\*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun abs(x: Float): Float = nativeMath.abs(x.toDouble()).toFloat()\n\n\*\*\n \* Returns the sign of the given value [x]:\n \* - `-1.0` if the value is negative,\n \* - zero if the value is zero,\n \* - `1.0` if the value is positive\n\n \* Special case:\n \* - `sign(NaN)` is `NaN`\n\n\*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sign(x: Float): Float = nativeMath.sign(x.toDouble()).toFloat()\n\n\*\*\n \* Returns the smaller of two values.\n\n \* If either value is `NaN`, then the result is `NaN`. \n\n\*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun min(a: Float, b: Float): Float = nativeMath.min(a, b)\n\n\*\*\n \* Returns the greater of two values.\n\n \* If either value is `NaN`, then the result is `NaN`. \n\n\*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun max(a: Float, b: Float): Float = nativeMath.max(a, b)\n\n// extensions\n\n\*\*\n \* Raises this value to the power [x].\n\n \* Special cases:\n \* - `b.pow(0.0)` is `1.0`\n \* - `b.pow(1.0) == b`\n \* - `b.pow(NaN)` is `NaN`\n \* - `NaN.pow(x)` is `NaN` for `x != 0.0`\n \* - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n \* - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n\n\*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual

```

inline fun Float.pow(x: Float): Float = nativeMath.pow(this.toDouble(), x.toDouble()).toFloat()\n\n/**\n * Raises
this value to the integer power [n].\n * See the other overload of [pow] for details.\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.pow(n: Int): Float =
nativeMath.pow(this.toDouble(), n.toDouble()).toFloat()\n\n/**\n * Returns the absolute value of this value.\n *
Special cases:\n * - `NaN.absoluteValue` is `NaN`\n * @see abs function\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Float.absoluteValue: Float get() =
nativeMath.abs(this.toDouble()).toFloat()\n\n/**\n * Returns the sign of this value:\n * -  $-1.0$  if the value is
negative,\n * - zero if the value is zero,\n * -  $1.0$  if the value is positive\n * Special case:\n * - `NaN.sign` is
`NaN`\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Float.sign: Float get() =
nativeMath.sign(this.toDouble()).toFloat()\n\n/**\n * Returns
this value with the sign bit same as of the [sign] value.\n * If [sign] is `NaN` the sign of the result is
undefined.\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.withSign(sign: Float): Float =
this.toDouble().withSign(sign.toDouble()).toFloat()\n\n/**\n * Returns this value with the sign bit same as of the
[sign] value.\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.withSign(sign: Int): Float =
this.toDouble().withSign(sign.toDouble()).toFloat()\n\n/**\n * Rounds this [Float] value to the nearest integer and
converts the result to [Int].\n * Ties are rounded towards positive infinity.\n * Special cases:\n * -
`x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * - `x.roundToInt() == Int.MIN_VALUE`
when `x < Int.MIN_VALUE`\n * @throws IllegalArgumentException when this value is `NaN`\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.roundToInt(): Int =
toDouble().roundToInt()\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to [Long].\n *
Ties are rounded towards
positive infinity.\n * Special cases:\n * - `x.roundToLong() == Long.MAX_VALUE` when `x >
Long.MAX_VALUE`\n * - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n *
@throws IllegalArgumentException when this value is `NaN`\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.roundToLong(): Long = toDouble().roundToLong()\n\n// endregion\n\n// Integer Math\n\n/**\n * Returns
the absolute value of the given value [n].\n * Special cases:\n * - `abs(Int.MIN_VALUE)` is
`Int.MIN_VALUE` due to an overflow\n * @see absoluteValue extension property for [Int]\n
*/\n@TODO:
remove manual 'or' when KT-19290 is fixed\n@SinceKotlin("1.2")\npublic actual fun abs(n: Int): Int = if (n < 0) (-
n or 0) else n\n\n/**\n * Returns the smaller of two values.\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun min(a: Int, b: Int): Int = nativeMath.min(a, b)\n\n/**\n * Returns the greater of two values.\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun max(a: Int, b: Int): Int = nativeMath.max(a,
b)\n\n/**\n * Returns the absolute value of this value.\n * Special cases:\n * -
`Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\n * @see abs function\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Int.absoluteValue: Int get() = abs(this)\n\n/**\n * Returns the sign of this value:\n * -  $-1$  if the value is negative,\n * -  $0$  if the value is zero,\n * -  $1$  if the value
is positive\n
*/\n@SinceKotlin("1.2")\npublic actual val Int.sign: Int get() = when {\n this < 0 -> -1\n this > 0 -
> 1\n else -> 0\n}\n\n/**\n * Returns the absolute value of the given value [n].\n * Special cases:\n * -
`abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\n
*/\n * @see absoluteValue extension property for [Long]\n
*/\n@SinceKotlin("1.2")\npublic actual fun abs(n:
Long): Long = if (n < 0) -n else n\n\n/**\n * Returns the smaller of two values.\n
*/\n@SinceKotlin("1.2")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun min(a: Long, b:
Long): Long = if (a <= b) a else b\n\n/**\n * Returns the greater of two values.\n
*/\n@SinceKotlin("1.2")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun max(a: Long, b:
Long): Long = if (a >= b) a else b\n\n/**\n * Returns the absolute value of this value.\n * Special cases:\n * -
`Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n * @see abs function\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Long.absoluteValue: Long get() =
abs(this)\n\n/**\n * Returns the sign of this value:\n * -  $-1$  if the value is negative,\n * -  $0$  if the value is zero,\n
*/

```

```

* - `1` if the value is positive\n */\n@SinceKotlin("1.2")\npublic actual
val Long.sign: Int get() = when {\n this < 0 -> -1\n this > 0 -> 1\n else -> 0}\n\n// endregion\n"/*\n *
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin\n\n/**\n * Returns `true` if the specified number is a\n * Not-a-Number (NaN) value, `false` otherwise.\n
*/\npublic actual fun Double.isNaN(): Boolean = this != this\n\n/**\n * Returns `true` if the specified number is a\n
* Not-a-Number (NaN) value, `false` otherwise.\n */\npublic actual fun Float.isNaN(): Boolean = this !=
this\n\n/**\n * Returns `true` if this value is infinitely large in magnitude.\n */\npublic actual fun Double.isInfinite():
Boolean = this == Double.POSITIVE_INFINITY || this == Double.NEGATIVE_INFINITY\n\n/**\n * Returns
`true` if this value is infinitely large in magnitude.\n */\npublic actual fun Float.isInfinite(): Boolean
= this == Float.POSITIVE_INFINITY || this == Float.NEGATIVE_INFINITY\n\n/**\n * Returns `true` if the
argument is a finite floating-point value; returns `false` otherwise (for `NaN` and infinity arguments).\n */\npublic
actual fun Double.isFinite(): Boolean = !isInfinite() && !isNaN()\n\n/**\n * Returns `true` if the argument is a finite
floating-point value; returns `false` otherwise (for `NaN` and infinity arguments).\n */\npublic actual fun
Float.isFinite(): Boolean = !isInfinite() && !isNaN()\n\n/**\n * Counts the number of set bits in the binary
representation of this [Int] number.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun
Int.countOneBits(): Int {\n // Hacker's Delight 5-1 algorithm\n var v = this\n v = (v and 0x55555555) +
(v.ushr(1) and 0x55555555)\n v = (v and 0x33333333) + (v.ushr(2) and 0x33333333)\n v = (v and 0x0F0F0F0F)
+ (v.ushr(4) and 0x0F0F0F0F)\n v = (v and 0x00FF00FF) + (v.ushr(8) and 0x00FF00FF)\n v = (v and
0x0000FFFF)
+ (v.ushr(16))\n return v\n}\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the
binary representation of this [Int] number.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@Suppress("DEPRECATION")\n@kotlin.internal.InlineO
nly\npublic actual inline fun Int.countLeadingZeroBits(): Int = kotlin.js.Math.clz32(this)\n\n/**\n * Counts the
number of consecutive least significant bits that are zero in the binary representation of this [Int] number.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun Int.countTrailingZeroBits(): Int =\n //
Hacker's Delight 5-4 algorithm for expressing countTrailingZeroBits with countLeadingZeroBits\n Int.SIZE_BITS
- (this or -this).inv().countLeadingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of
the most significant set bit of this [Int] number, or zero, if this number is zero.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual
fun Int.takeHighestOneBit(): Int =\n if (this == 0) 0 else 1.shl(Int.SIZE_BITS - 1 -
countLeadingZeroBits())\n\n/**\n * Returns a number having a single bit set in the position of the least significant
set bit of this [Int] number, or zero, if this number is zero.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun Int.takeLowestOneBit(): Int =\n //
Hacker's Delight 2-1 algorithm for isolating rightmost 1-bit\n this and -this\n\n/**\n * Rotates the binary
representation of this [Int] number left by the specified [bitCount] number of bits.\n * The most significant bits
pushed out from the left side reenter the number as the least significant bits on the right side.\n * Rotating the
number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-
n) == number.rotateRight(n)`\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or
more generally\n * `number.rotateLeft(n) ==
number.rotateLeft(n % 32)`\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun
Int.rotateLeft(bitCount: Int): Int =\n shl(bitCount) or ushr(Int.SIZE_BITS - bitCount)\n\n/**\n * Rotates the
binary representation of this [Int] number right by the specified [bitCount] number of bits.\n * The least significant
bits pushed out from the right side reenter the number as the most significant bits on the left side.\n * Rotating
the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *
`number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns
the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun Int.rotateRight(bitCount: Int): Int =\n

```

shl(Int.SIZE\_BITS - bitCount) or ushr(bitCount)\n\n/\*\*\n \* Counts the number of set bits in the binary representation of this

[Long] number.\n \* \n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun Long.countOneBits(): Int =\n high.countOneBits() + low.countOneBits()\n\n/\*\*\n \* Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.\n

\* \n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun Long.countLeadingZeroBits(): Int =\n when (val high = this.high) {\n 0 -> Int.SIZE\_BITS + low.countLeadingZeroBits()\n else ->\n high.countLeadingZeroBits()\n }\n\n/\*\*\n \* Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.\n \* \n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun Long.countTrailingZeroBits(): Int =\n when (val low = this.low) {\n 0 -> Int.SIZE\_BITS + high.countTrailingZeroBits()\n else -> low.countTrailingZeroBits()\n }\n\n/\*\*\n \* Returns a number having a single bit set in the position of the

most significant set bit of this [Long] number, or zero, if this number is zero.\n

\* \n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun Long.takeHighestOneBit(): Long =\n when (val high = this.high) {\n 0 -> Long(low.takeHighestOneBit(), 0)\n else -> Long(0, high.takeHighestOneBit())\n }\n\n/\*\*\n \* Returns a number having a single bit set in the position of the least significant set bit of this [Long] number, or zero, if this number is zero.\n

\* \n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun Long.takeLowestOneBit(): Long =\n when (val low = this.low) {\n 0 -> Long(0, high.takeLowestOneBit())\n else -> Long(low.takeLowestOneBit(), 0)\n }\n\n/\*\*\n \* Rotates the binary representation of this [Long] number left by the specified [bitCount] number of bits.\n \* The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n \* \n \* Rotating the number

left by a negative bit count is the same as rotating it right by the negated bit count:\n \* `number.rotateLeft(-n) == number.rotateRight(n)`\n \* \n \* Rotating by a multiple of [Long.SIZE\_BITS] (64) returns the same number, or more generally\n \* `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n

\* \n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun Long.rotateLeft(bitCount: Int): Long {\n if ((bitCount and 31) != 0) {\n val low = this.low\n val high = this.high\n val newLow = low.shl(bitCount) or high.ushr(-bitCount)\n val newHigh = high.shl(bitCount) or low.ushr(-bitCount)\n return if ((bitCount and 32) == 0) Long(newLow, newHigh) else Long(newHigh, newLow)\n } else {\n return if ((bitCount and 32) == 0) this else Long(high, low)\n }\n}\n\n/\*\*\n \* Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.\n \* The least significant bits pushed out from the right side reenter

the number as the most significant bits on the left side.\n \* \n \* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n \* `number.rotateRight(-n) == number.rotateLeft(n)`\n \* \n \* Rotating by a multiple of [Long.SIZE\_BITS] (64) returns the same number, or more generally\n \* `number.rotateRight(n) == number.rotateRight(n % 64)`\n

\* \n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic actual inline fun Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)\n\n/\*\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \* \n\npackage kotlin.js\nimport

kotlin.internal.LowPriorityInOverloadResolution\n\n/\*\*\n \* Exposes the JavaScript [Promise object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global\_Objects/Promise) to Kotlin.\n \* \n@Suppress("NOT\_DOCUMENTED")\npublic open external class Promise<out T>(executor: (resolve: (T) -> Unit, reject: (Throwable) -> Unit) -> Unit) {\n @LowPriorityInOverloadResolution\n public open fun <S> then(onFulfilled: ((T) -> S)?): Promise<S>\n\n @LowPriorityInOverloadResolution\n public open fun <S> then(onFulfilled: ((T) -> S)?, onRejected: ((Throwable) -> S)?): Promise<S>\n\n public open fun <S> catch(onRejected: (Throwable) -> S): Promise<S>\n\n companion object {\n public fun <S> all(promise: Array<out Promise<S>>): Promise<Array<out S>>\n\n public fun <S> race(promise: Array<out

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Promise<S>>): Promise<S>\n\n    public fun reject(e: Throwable): Promise<Nothing>\n\n    public fun <S>
resolve(e: S): Promise<S>\n    public fun <S> resolve(e: Promise<S>): Promise<S>\n    }\n}\n\n// It's workaround
for KT-19672 since we can fix it properly until KT-11265 isn't fixed.\ninline fun <T, S>
Promise<Promise<T>>.then(\n    noinline onFulfilled:
((T) -> S)?\n): Promise<S> {\n    return this.unsafeCast<Promise<T>>().then(onFulfilled)\n}\n\ninline fun <T, S>
Promise<Promise<T>>.then(\n    noinline onFulfilled: ((T) -> S)?,\n    noinline onRejected: ((Throwable) -> S)?\n):
Promise<S> {\n    return this.unsafeCast<Promise<T>>().then(onFulfilled, onRejected)\n}\n}\n\n/*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.random\n\nimport kotlin.math.pow\n\ninternal actual fun defaultPlatformRandom(): Random =\nRandom(js\("(Math.random() * Math.pow(2, 32)) | 0)").unsafeCast<Int>())\n\nprivate val INV_2_26: Double =
2.0.pow(-26)\nprivate val INV_2_53: Double = 2.0.pow(-53)\n\ninternal actual fun doubleFromParts(hi26: Int, low27:
Int): Double =\n    hi26 * INV_2_26 + low27 * INV_2_53", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport getKClass\n\nimport kotlin.reflect.KClass\n\nimport
kotlin.reflect.js.internal.KClassImpl\n\n/**\n * Represents the constructor of a class. Instances of `JsClass` can be
passed to JavaScript APIs that expect a constructor reference.\n */\n\nexternal interface JsClass<T> : Any? {\n    /**\n
 * Returns the unqualified name of the class represented by this instance.\n */\n    val name:
String\n}\n\n@Deprecated("Use class literal and extension property `js` instead.", replaceWith =
ReplaceWith("T::class.js"), level = DeprecationLevel.ERROR)\n\nexternal fun <T> : Any? jsClass():
JsClass<T>\n\n@Deprecated("Use class literal and extension property `js` instead.", replaceWith =
ReplaceWith("this::class.js"), level = DeprecationLevel.ERROR)\n\nval <T> : Any? T.jsClass: JsClass<T>\n    get()
= when (jsTypeOf(this)) {\n    "string" -> js("String")\n    "number" -> js("Number")\n    "boolean" -> js("Boolean")\n    else ->
js("Object").getPrototypeOf(this).constructor\n    }\n}\n\n/**\n * Obtains a constructor reference for the given
`KClass`.\n */\n\nval <T> : Any? KClass<T>.js: JsClass<T>\n    get() = (this as KClassImpl<T>).jClass\n}\n\n/**\n
 * Obtains a `KClass` instance for the given constructor reference.\n */\n\nval <T> : Any? JsClass<T>.kotlin:
KClass<T>\n    get() = getKClass(this)\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal abstract
class KClassImpl<T> : Any? {\n    internal open val jClass: JsClass<T>\n} : KClass<T> {\n    override val
annotations: List<Annotation>\n        get() = TODO()\n    override val constructors: Collection<KFunction<T>>\n
        get() = TODO()\n    override val isAbstract: Boolean\n        get() = TODO()\n    override val isCompanion:
Boolean\n        get() = TODO()\n    override val isData: Boolean\n        get() = TODO()\n    override val isFinal:
Boolean\n        get() = TODO()\n    override val isInner: Boolean\n        get() = TODO()\n    override val isOpen:
Boolean\n        get() = TODO()\n    override val isSealed: Boolean\n        get() = TODO()\n    override val members:
Collection<KCallable<*>>\n        get() = TODO()\n    override val nestedClasses: Collection<KClass<*>>\n
        get() = TODO()\n    override val objectInstance: T?\n        get() = TODO()\n    override val qualifiedName: String?\n
        get() = TODO()\n    override val supertypes: List<KType>\n        get() = TODO()\n    override val
typeParameters: List<KTypeParameter>\n        get() = TODO()\n    override val sealedSubclasses: List<KClass<out
T>>\n        get() = TODO()\n    override val visibility: KVisibility?\n        get() = TODO()\n    override fun
equals(other: Any?): Boolean {\n        return other is KClassImpl<*> &&
jClass == other.jClass\n    }\n}\n\n// TODO: use FQN\n    override fun hashCode(): Int = simpleName?.hashCode()
?: 0\n\n    override fun toString(): String {\n        // TODO: use FQN\n        return "class $simpleName"\n    }\n}\n\ninternal class SimpleKClassImpl<T> : Any?(jClass: JsClass<T>) : KClassImpl<T>(jClass) {\n    override val
simpleName: String? = jClass.asDynamic().`$metadata$`.simpleName.unsafeCast<String?>()\n\n    override fun
isInstance(value: Any?): Boolean {\n        return jsIsType(value, jClass)\n    }\n}\n\ninternal class

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PrimitiveKClassImpl<T : Any>(\n  jClass: JsClass<T>,\n  private val givenSimpleName: String,\n  private val\n  isInstanceFunction: (Any?) -> Boolean)\n) : KClassImpl<T>(jClass) {\n  override fun equals(other: Any?): Boolean\n  {\n    if (other !is PrimitiveKClassImpl<*>) return false\n    return super.equals(other) &&\n    givenSimpleName == other.givenSimpleName\n  }\n\n  override val simpleName: String? get() =\n  givenSimpleName\n\n  override fun isInstance(value: Any?): Boolean {\n    return isInstanceFunction(value)\n  }\n}\n\ninternal object NothingKClassImpl : KClassImpl<Nothing>(js("Object")) {\n  override val simpleName:\n  String = "Nothing"\n\n  override fun isInstance(value: Any?): Boolean = false\n\n  override val jClass:\n  JsClass<Nothing>\n  get() = throw UnsupportedOperationException("There's no native JS class for Nothing\n  type")\n\n  override fun equals(other: Any?): Boolean = other === this\n\n  override fun hashCode(): Int =\n  0\n}\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this\n  source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// a\n  package is omitted to get declarations directly under the module\n\n// TODO: Remove once\n\nJsReflectionAPICallChecker\n\n  supports more reflection types\n\n@file:Suppress("Unsupported")\n\nimport kotlin.reflect.*\nimport\n  kotlin.reflect.js.internal.*\n\n@JsName("createKType")\n\ninternal fun createKType(\n  classifier: KClassifier,\n  arguments: Array<KTypeProjection>,\n  isMarkedNullable: Boolean)\n) =\n  KTypeImpl(classifier,\n  arguments.asList(), isMarkedNullable)\n\n@JsName("createDynamicKType")\n\ninternal fun\n  createDynamicKType(): KType = DynamicKType\n\n@JsName("markKTypeNullable")\n\ninternal fun\n  markKTypeNullable(kType: KType) = KTypeImpl(kType.classifier!!, kType.arguments,\n  true)\n\n@JsName("createKTypeParameter")\n\ninternal fun createKTypeParameter(\n  name: String,\n  upperBounds: Array<KType>,\n  variance: String)\n) : KTypeParameter {\n  val kVariance = when (variance) {\n    "in" -> KVariance.IN\n    "out" -> KVariance.OUT\n    else -> KVariance.INVARIANT\n  }\n\n  return\n  KTypeParameterImpl(name, upperBounds.asList(), kVariance,\n  false)\n}\n\n@JsName("getStarKTypeProjection")\n\ninternal\n  fun getStarKTypeProjection(): KTypeProjection =\n  KTypeProjection.STAR\n\n@JsName("createCovariantKTypeProjection")\n\ninternal fun\n  createCovariantKTypeProjection(type: KType): KTypeProjection =\n  KTypeProjection.covariant(type)\n\n@JsName("createInvariantKTypeProjection")\n\ninternal fun\n  createInvariantKTypeProjection(type: KType): KTypeProjection =\n  KTypeProjection.invariant(type)\n\n@JsName("createContravariantKTypeProjection")\n\ninternal fun\n  createContravariantKTypeProjection(type: KType): KTypeProjection =\n  KTypeProjection.contravariant(type)\n}\n\n/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming\n  Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\n  license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal class\n  KTypeImpl(\n  override val classifier: KClassifier,\n  override val arguments: List<KTypeProjection>,\n  override val isMarkedNullable: Boolean)\n) : KType {\n  override val annotations: List<Annotation>\n  get()\n  = emptyList()\n\n  override fun equals(other: Any?): Boolean =\n  other is KTypeImpl &&\n  classifier\n  == other.classifier &&\n  arguments == other.arguments &&\n  isMarkedNullable == other.isMarkedNullable\n\n  override fun hashCode(): Int =\n  (classifier.hashCode() * 31 + arguments.hashCode()) * 31 +\n  isMarkedNullable.hashCode()\n\n  override fun toString(): String {\n    val kClass = (classifier as? KClass<*>)\n\n    val className = when {\n      kClass == null -> classifier.toString()\n      kClass.simpleName != null\n      -> kClass.simpleName\n      else -> "(non-denotable type)"\n    }\n\n    val args =\n    if\n  (arguments.isEmpty()) ""\n    else arguments.joinToString(" ", "<", ">") { it.asString() }\n\n    val\n  nullable = if (isMarkedNullable) "?"\n    else ""\n\n    return\n  className + args + nullable\n  }\n\n  // TODO: this should be the implementation of\n  KTypeProjection.toString, see KT-30071\n\n  private fun KTypeProjection.asString(): String {\n    if (variance ==\n  null) return ""\n    return variance.prefixString() + type.toString()\n  }\n}\n\ninternal object DynamicKType :\n  KType {\n  override val classifier: KClassifier? = null\n  override val arguments: List<KTypeProjection> =

```



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DoubleArray })\n\n @JsName("functionClass")\n fun functionClass(arity: Int): KClassImpl<Any> {\n
return functionClasses.get(arity) ?: run {\n      val result =\n
PrimitiveKClassImpl(js("Function").unsafeCast<JsClass<Any>>(),\n
    "Function$arity",\n      { jsTypeOf(it) === "function" && it.asDynamic().length ===\n
arity })\n      functionClasses.asDynamic()[arity] = result\n      result\n  }\n  }\n}\n\nprivate val\n
functionClasses = arrayOfNulls<KClassImpl<Any>>(0),"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin\n
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be\n
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js.internal\n\n@JsName("getKClass")\ninternal fun <T : Any>\n
getKClass(jClass: JsClass<T>): KClass<T> =\n
getOrCreateKClass(jClass)\n\n@JsName("getKClassFromExpression")\ninternal fun <T : Any>\n
getKClassFromExpression(e: T): KClass<T> =\n  when (jsTypeOf(e)) {\n    "string" ->\n
PrimitiveClasses.stringClass\n    "number" -> if (jsBitwiseOr(e,\n
0).asDynamic() === e) PrimitiveClasses.intClass else PrimitiveClasses.doubleClass\n    "boolean" ->\n
PrimitiveClasses.booleanClass\n    "function" -> PrimitiveClasses.functionClass(e.asDynamic().length)\n
else -> {\n      when {\n        e is BooleanArray -> PrimitiveClasses.booleanArrayClass\n        e is\n
CharArray -> PrimitiveClasses.charArrayClass\n        e is ByteArray -> PrimitiveClasses.byteArrayClass\n
        e is ShortArray -> PrimitiveClasses.shortArrayClass\n        e is IntArray ->\n
PrimitiveClasses.intArrayClass\n        e is LongArray -> PrimitiveClasses.longArrayClass\n        e is\n
FloatArray -> PrimitiveClasses.floatArrayClass\n        e is DoubleArray ->\n
PrimitiveClasses.doubleArrayClass\n        e is KClass<*> -> KClass::class\n        e is Array<*> ->\n
PrimitiveClasses.arrayClass\n        else -> {\n          val constructor =\n
js("Object").getPrototypeOf(e).constructor\n
          when {\n            constructor === js("Object") -> PrimitiveClasses.anyClass\n
            constructor === js("Error") -> PrimitiveClasses.throwableClass\n            else -> {\n              val\n
jsClass: JsClass<T> = constructor\n              getOrCreateKClass(jsClass)\n              }\n
            }\n          }\n        }\n      }\n    }\n  }\n  }\n}\n\nunsafeCast<KClass<T>>()\n\nprivate fun <T : Any>\n
getOrCreateKClass(jClass: JsClass<T>): KClass<T> {\n  if (jClass === js("String")) return\n
PrimitiveClasses.stringClass.unsafeCast<KClass<T>>()\n\n  val metadata = jClass.asDynamic().`$metadata$\`\n\n
return if (metadata != null) {\n    if (metadata.`$kClass$\` == null) {\n      val kClass =\n
SimpleKClassImpl(jClass)\n      metadata.`$kClass$\` = kClass\n      kClass\n    } else {\n
metadata.`$kClass$\`\n
    }\n  } else {\n    SimpleKClassImpl(jClass)\n  }\n}\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin\n
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be\n
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Exposes the JavaScript [RegExp\n
object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/RegExp) to Kotlin.\n
*/\n\n@Suppress("NOT_DOCUMENTED")\npublic external class RegExp(pattern: String, flags: String? =\n
definedExternally) {\n  public fun test(str: String): Boolean\n  public fun exec(str: String): RegExpMatch?\n\n
  public override fun toString(): String\n  /**\n   * The lastIndex is a read/write integer property of regular\n
expressions that specifies the index at which to start the next match.\n   */\n  public var lastIndex: Int\n\n  public\n
val global: Boolean\n  public val ignoreCase: Boolean\n  public val multiline: Boolean\n}\n\n/**\n
 * Resets the regular expression so that subsequent [RegExp.test] and [RegExp.exec] calls will match starting with\n
the beginning of the input string.\n   */\n  public fun reset() {\n    lastIndex = 0\n  }\n\n  /**\n   * Represents the return value of [RegExp.exec].\n   */\n
}\n\n@Suppress("NOT_DOCUMENTED")\npublic external interface RegExpMatch {\n  public val index: Int\n
  public val input: String\n  public val length: Int\n}\n\n/**\n * Returns the entire text matched by [RegExp.exec] if\n
the [index] parameter is 0, or the text matched by the capturing parenthesis\n * at the given index.\n   */\n  public inline\n
operator fun RegExpMatch.get(index: Int): String? = asDynamic()[index]\n\n/**\n * Converts the result of

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[RegExp.exec] to an array where the first element contains the entire matched text and each subsequent
is the text matched by each capturing parenthesis.
public inline fun RegExpMatch.asArray():
    Array<out String?> = unsafeCast<Array<out String?>>()\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.sequences\n\ninternal actual class
ConstrainedOnceSequence<T> actual constructor(sequence: Sequence<T>) : Sequence<T> {\n    private var
sequenceRef: Sequence<T>? = sequence\n\n    actual override fun iterator(): Iterator<T> {\n        val sequence =
sequenceRef ?: throw IllegalStateException("This sequence can be consumed only once.")\n        sequenceRef =
null\n        return sequence.iterator()\n    }\n}\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * The exception thrown when a
character encoding
or decoding error occurs.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual open class
CharacterCodingException(message: String?) : Exception(message) {\n    actual constructor() : this(null)\n}\n", "/*\n
* Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.text\n\n/**\n * A mutable sequence of characters.\n */\n * String builder can be used to efficiently perform
multiple string manipulation operations.\n */\n\npublic actual class StringBuilder actual constructor(content: String) :
Appendable, CharSequence {\n    /**\n     * Constructs an empty string builder with the specified initial [capacity].\n
*/\n     * In Kotlin/JS implementation of StringBuilder the initial capacity has no effect on the further performance
of operations.\n     */\n     actual constructor(capacity: Int) : this() {\n
        this.asDynamic()._capacity = capacity\n    }\n\n    /** Constructs a string builder that contains the same characters
as the specified [content] char sequence. */\n     actual constructor(content: CharSequence) : this(content.toString())
{\n    }\n\n    /** Constructs an empty string builder. */\n     actual constructor() : this("")\n\n    private var string: String
= if (content != undefined) content else ""\n\n     actual override val length: Int\n        get() =
string.asDynamic().length\n\n     actual override fun get(index: Int): Char =\n        string.getOrNull(index) { throw
IndexOutOfBoundsException("index: $index, length: $length") }\n\n     actual override fun
subSequence(startIndex: Int, endIndex: Int): CharSequence = string.substring(startIndex, endIndex)\n\n     actual
override fun append(value: Char): StringBuilder {\n        string += value\n        return this\n    }\n\n     actual override
fun append(value: CharSequence?): StringBuilder {\n        string += value.toString()\n
        return this\n    }\n\n     @UseExperimental(ExperimentalStdlibApi::class)\n     actual override fun append(value:
CharSequence?, startIndex: Int, endIndex: Int): StringBuilder = this.appendRange(value, startIndex, endIndex)\n\n
/**\n     * Reverses the contents of this string builder and returns this instance.\n     */\n     * Surrogate pairs included
in this string builder are treated as single characters.\n     * Therefore, the order of the high-low surrogates is never
reversed.\n     */\n     * Note that the reverse operation may produce new surrogate pairs that were unpaired low-
surrogates and high-surrogates before the operation.\n     * For example, reversing `"\uDC00\uD800"` produces
`"\uD800\uDC00"` which is a valid surrogate pair.\n     */\n     actual fun reverse(): StringBuilder {\n        var
reversed = ""\n        var index = string.length - 1\n        while (index >= 0) {\n            val low = string[index--]\n
            if (low.isLowSurrogate() && index
            >= 0) {\n                val high = string[index--]\n                if (high.isHighSurrogate()) {\n                    reversed =
reversed + high + low\n                } else {\n                    reversed = reversed + low + high\n                }\n            }
            else {\n                reversed += low\n            }\n        }\n        string = reversed\n        return this\n    }\n\n
/**\n     * Appends the string representation of the specified object [value] to this string builder and returns this instance.\n
*/\n     * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n
* and then that string was appended to this string builder.\n     */\n     actual fun append(value: Any?): StringBuilder
{\n        string += value.toString()\n        return this\n    }\n\n    /**\n     * Appends the string representation of the
specified boolean [value] to this string builder and returns this instance.\n     */\n     * The

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overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n
* and then that string was appended to this string builder.\n
*/\n
@SinceKotlin("1.3")\n// @ExperimentalStdlibApi\nactual fun append(value: Boolean): String Builder {\n
    string += value\n
    return this\n
}\n\n /**\n
* Appends characters in the specified character array [value] to this string builder and returns this instance.\n
*/\n
* Characters are appended in order, starting at the index 0.\n
*/\n
@SinceKotlin("1.3")\n
@ExperimentalStdlibApi\n actual fun append(value: CharArray): String Builder {\n
    string +=\n
value.concatToString()\n
    return this\n
}\n\n /**\n
* Appends the specified string [value] to this string\n
builder and returns this instance.\n
*/\n
@SinceKotlin("1.3")\n// @ExperimentalStdlibApi\n actual fun\n
append(value: String): String Builder {\n
    this.string += value\n
    return this\n
}\n\n /**\n
* Returns the current capacity of this string builder.\n
*/\n
* The capacity is\n
the maximum length this string builder can have before an allocation occurs.\n
*/\n
* In Kotlin/JS\n
implementation of String Builder the value returned from this method may not indicate the actual size of the backing\n
storage.\n
*/\n
@SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun capacity(): Int = if\n
(this.asDynamic()._capacity !== undefined) maxOf(this.asDynamic()._capacity, length) else length\n\n /**\n
* Ensures that the capacity of this string builder is at least equal to the specified [minimumCapacity].\n
*/\n
* If\n
the current capacity is less than the [minimumCapacity], a new backing storage is allocated with greater capacity.\n
* Otherwise, this method takes no action and simply returns.\n
*/\n
* In Kotlin/JS implementation of\n
String Builder the size of the backing storage is not extended to comply\n
the given [minimumCapacity],\n
* thus calling this method has no effect on the further performance of\n
operations.\n
*/\n
@SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun\n
ensureCapacity(minimumCapacity: Int) {\n
    if (minimumCapacity > capacity()) {\n
this.asDynamic()._capacity = minimumCapacity\n
    }\n
}\n\n /**\n
* Returns the index within this string\n
builder of the first occurrence of the specified [string].\n
*/\n
* Returns -1 if the specified [string] does not\n
occur in this string builder.\n
*/\n
@SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun\n
indexOf(string: String): Int = this.string.asDynamic().indexOf(string)\n\n /**\n
* Returns the index within this\n
string builder of the first occurrence of the specified [string],\n
* starting at the specified [startIndex].\n
*/\n
* Returns -1 if the specified [string] does not occur in this string builder starting at the specified\n
[startIndex].\n
*/\n
@SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun indexOf(string: String,\n
startIndex: Int): Int = this.string.asDynamic().indexOf(string, startIndex)\n\n /**\n
* Returns the index within\n
this string builder of the last occurrence of the specified [string].\n
* The last occurrence of empty string `""` is\n
considered to be at the index equal to `this.length`.\n
*/\n
* Returns -1 if the specified [string] does not occur\n
in this string builder.\n
*/\n
@SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun\n
lastIndexOf(string: String): Int = this.string.asDynamic().lastIndexOf(string)\n\n /**\n
* Returns the index\n
within this string builder of the last occurrence of the specified [string],\n
* starting from the specified [startIndex]\n
toward the beginning.\n
*/\n
* Returns -1 if the specified [string] does not occur in this string builder starting\n
at the specified [startIndex].\n
*/\n
@SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun lastIndexOf(string: String, startIndex: Int): Int\n
{\n
    if (string.isEmpty() && startIndex < 0) return -1\n
    return this.string.asDynamic().lastIndexOf(string,\n
startIndex)\n
}\n\n /**\n
* Inserts the string representation of the specified boolean [value] into this string\n
builder at the specified [index] and returns this instance.\n
*/\n
* The overall effect is exactly as if the [value]\n
were converted to a string by the `value.toString()` method,\n
* and then that string was inserted into this string\n
builder at the specified [index].\n
*/\n
* @throws IndexOutOfBoundsException if [index] is less than zero or\n
greater than the length of this string builder.\n
*/\n
@SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun insert(index: Int, value: Boolean): String Builder {\n
    AbstractList.checkPositionIndex(index,\n
length)\n\n
    string = string.substring(0, index)\n
+ value + string.substring(index)\n
    return this\n
}\n\n /**\n
* Inserts the specified character [value] into\n
this string builder at the specified [index] and returns this instance.\n
*/\n
* @throws\n
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n
*/\n
*/\n

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@SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun insert(index: Int, value: Char): StringBuilder {\n
    AbstractList.checkPositionIndex(index, length)\n\n    string = string.substring(0, index) + value +
string.substring(index)\n    return this\n }\n\n /**\n  * Inserts characters in the specified character array
[value] into this string builder at the specified [index] and returns this instance.\n  *\n  * The inserted characters
go in same order as in the [value] character array, starting at [index].\n  *\n  * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length
of this string builder.\n  */\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun insert(index:
Int, value: CharArray): StringBuilder {\n    AbstractList.checkPositionIndex(index, length)\n\n    string =
string.substring(0, index) + value.concatToString() + string.substring(index)\n    return this\n }\n\n /**\n  *
Inserts characters in the specified character sequence [value] into this string builder at the specified [index] and
returns this instance.\n  *\n  * The inserted characters go in the same order as in the [value] character sequence,
starting at [index].\n  *\n  * @param index the position in this string builder to insert at.\n  * @param value the
character sequence from which characters are inserted. If [value] is `null`, then the four characters `"\u0000\u0000\u0000\u0000"` are
inserted.\n  *\n  * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of
this string builder.\n  */\n @SinceKotlin("1.3")\n
@ExperimentalStdlibApi\n actual fun insert(index: Int, value: CharSequence?): StringBuilder {\n
    AbstractList.checkPositionIndex(index, length)\n\n    string = string.substring(0, index) + value.toString() +
string.substring(index)\n    return this\n }\n\n /**\n  * Inserts the string representation of the specified object
[value] into this string builder at the specified [index] and returns this instance.\n  *\n  * The overall effect is
exactly as if the [value] were converted to a string by the `value.toString()` method,\n  * and then that string was
inserted into this string builder at the specified [index].\n  *\n  * @throws IndexOutOfBoundsException if
[index] is less than zero or greater than the length of this string builder.\n  */\n @SinceKotlin("1.3")\n
@ExperimentalStdlibApi\n actual fun insert(index: Int, value: Any?): StringBuilder {\n
    AbstractList.checkPositionIndex(index, length)\n\n    string = string.substring(0, index) + value.toString() +
string.substring(index)\n    return this\n }\n\n /**\n  * Inserts the string [value] into this string builder at the
specified [index] and returns this instance.\n  *\n  * @throws IndexOutOfBoundsException if [index] is less than zero
or greater than the length of this string builder.\n  */\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n
actual fun insert(index: Int, value: String):
StringBuilder {\n    AbstractList.checkPositionIndex(index, length)\n\n    this.string = this.string.substring(0,
index) + value + this.string.substring(index)\n    return this\n }\n\n /**\n  * Sets the length of this string
builder to the specified [newLength].\n  *\n  * If the [newLength] is less than the current length, it is changed to
the specified [newLength].\n  * Otherwise, null characters `'\u0000'` are appended to this string builder until its
length is less than the [newLength].\n  *\n  * Note that in Kotlin/JS [set] operator function has non-constant execution
time complexity.\n  *\n  * Therefore, increasing length of this string builder and then updating each character by
index may slow down your program.\n  *\n  * @throws IndexOutOfBoundsException or [IllegalArgumentException] if
[newLength] is less than zero.\n  */\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun setLength(newLength: Int)
{\n    if (newLength < 0) {\n        throw IllegalArgumentException("Negative new length: $newLength.")\n    }\n\n    if
(newLength <= length) {\n        string = string.substring(0, newLength)\n    } else {\n        for (i
in length until newLength) {\n            string += "\u0000"\n        }\n    }\n\n    /**\n  * Returns a new
[String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [length] (exclusive).\n
*\n  * @throws IndexOutOfBoundsException
if [startIndex] is less than zero or greater than the length of this string builder.\n  */\n @SinceKotlin("1.3")\n
@ExperimentalStdlibApi\n actual fun substring(startIndex: Int): String {\n
    AbstractList.checkPositionIndex(startIndex, length)\n\n    return string.substring(startIndex)\n }\n\n /**\n  *
Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the
[endIndex] (exclusive).\n  *\n  * @throws IndexOutOfBoundsException or [IllegalArgumentException] when
[startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n  */\n

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@SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun substring(startIndex: Int, endIndex: Int): String
{\n    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n    return string.substring(startIndex,
endIndex)\n }\n\n /**\n  * Attempts to reduce storage
used for this string builder.\n  *\n  * If the backing storage of this string builder is larger than necessary to hold
its current contents,\n  * then it may be resized to become more space efficient.\n  * Calling this method may,
but is not required to, affect the value of the [capacity] property.\n  *\n  * In Kotlin/JS implementation of
StringBuilder the size of the backing storage is always equal to the length of the string builder.\n  */\n
@SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun trimToSize() {\n    if
(this.asDynamic()._capacity !== undefined) {\n        this.asDynamic()._capacity = length\n    }\n }\n\n
override fun toString(): String = string\n\n /**\n  * Clears the content of this string builder making it empty and
returns this instance.\n  *\n  * @sample samples.text.Strings.clearStringBuilder\n  */\n
@SinceKotlin("1.3")\n public fun clear(): StringBuilder {\n    string = ""\n
return this\n }\n\n /**\n  * Sets the character at the specified [index] to the specified [value].\n  *\n  *
@throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n  */\n
@SinceKotlin("1.3")\n @ExperimentalStdlibApi\n public operator fun set(index: Int, value: Char) {\n
AbstractList.checkElementIndex(index, length)\n    string = string.substring(0, index) + value +
string.substring(index + 1)\n }\n\n /**\n  * Replaces characters in the specified range of this string builder with
characters in the specified string [value] and returns this instance.\n  *\n  * @param startIndex the beginning
(inclusive) of the range to replace.\n  * @param endIndex the end (exclusive) of the range to replace.\n  *
@param value the string to replace with.\n  *\n  * @throws IndexOutOfBoundsException or
[IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder,
or `startIndex > endIndex`.\n  */\n
@SinceKotlin("1.3")\n @ExperimentalStdlibApi\n public fun
setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder {\n    checkReplaceRange(startIndex,
endIndex, length)\n    this.string = this.string.substring(0, startIndex) + value + this.string.substring(endIndex)\n
return this\n }\n\n private fun checkReplaceRange(startIndex: Int, endIndex: Int, length: Int) {\n    if
(startIndex < 0 || startIndex > length) {\n        throw IndexOutOfBoundsException("startIndex: $startIndex,
length: $length")\n    }\n    if (startIndex > endIndex) {\n        throw
IllegalArgumentException("startIndex($startIndex) > endIndex($endIndex)")\n    }\n }\n\n /**\n  *
Removes the character at the specified [index] from this string builder and returns this instance.\n  *\n  * If the
`Char` at the specified [index] is part of a supplementary code point, this method does not
remove the entire supplementary character.\n  *\n  * @param index the index of `Char` to remove.\n  *\n  *
@throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n  */\n
@SinceKotlin("1.3")\n @ExperimentalStdlibApi\n public fun deleteAt(index: Int): StringBuilder {\n
AbstractList.checkElementIndex(index, length)\n    string = string.substring(0, index) + string.substring(index +
1)\n    return this\n }\n\n /**\n  * Removes characters in the specified range from this string builder and
returns this instance.\n  *\n  * @param startIndex the beginning (inclusive) of the range to remove.\n  *
@param endIndex the end (exclusive) of the range to remove.\n  *\n  * @throws IndexOutOfBoundsException
or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex >
endIndex`.\n  */\n
@SinceKotlin("1.3")\n @ExperimentalStdlibApi\n public
fun deleteRange(startIndex: Int, endIndex: Int): StringBuilder {\n    checkReplaceRange(startIndex, endIndex,
length)\n    string = string.substring(0, startIndex) + string.substring(endIndex)\n    return this\n }\n\n
/**\n  * Copies characters from this string builder into the [destination] character array.\n  *\n  * @param
destination the array to copy to.\n  * @param destinationOffset the position in the array to copy to, 0 by default.\n
* @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n  * @param endIndex the end
(exclusive) of the range to copy, length of this string builder by default.\n  *\n  * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this
string builder indices or when `startIndex > endIndex`.\n  * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n

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    * or when that index is out of the [destination] array indices range.\n    */\n    @SinceKotlin("1.3")\n    @ExperimentalStdlibApi\n    public fun toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) {\n        AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n        AbstractList.checkBoundsIndexes(destinationOffset, destinationOffset + endIndex - startIndex, destination.size)\n        var dstIndex = destinationOffset\n        for (index in startIndex until endIndex) {\n            destination[dstIndex++] = string[index]\n        }\n    }\n    /**\n     * Appends characters in a subarray of the specified character array [value] to this string builder and returns this instance.\n     * Characters are appended in order, starting at specified [startIndex].\n     * @param value the array from which characters are appended.\n     * @param startIndex the beginning (inclusive) of the subarray to append.\n     * @param endIndex the end (exclusive) of the subarray to append.\n     * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n     */\n    @SinceKotlin("1.3")\n    @ExperimentalStdlibApi\n    public fun appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder {\n        string += value.concatToString(startIndex, endIndex)\n        return this\n    }\n    /**\n     * Appends a subsequence of the specified character sequence [value] to this string builder and returns this instance.\n     * @param value the character sequence from which a subsequence is appended. If [value] is `null`, then characters are appended as if [value] contained the four characters `\\null`.\n     * @param startIndex the beginning (inclusive) of the subsequence to append.\n     * @param endIndex the end (exclusive) of the subsequence to append.\n     * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n     */\n    @SinceKotlin("1.3")\n    @ExperimentalStdlibApi\n    public fun appendRange(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder {\n        val stringCsq = value.toString()\n        AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)\n        string += stringCsq.substring(startIndex, endIndex)\n        return this\n    }\n    /**\n     * Inserts characters in a subarray of the specified character array [value] into this string builder at the specified [index] and returns this instance.\n     * The inserted characters go in same order as in the [value] array, starting at [index].\n     * @param index the position in this string builder to insert at.\n     * @param value the array from which characters are inserted.\n     * @param startIndex the beginning (inclusive) of the subarray to insert.\n     * @param endIndex the end (exclusive) of the subarray to insert.\n     * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n     * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n     */\n    @SinceKotlin("1.3")\n    @ExperimentalStdlibApi\n    public fun insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder {\n        AbstractList.checkPositionIndex(index, this.length)\n        string = string.substring(0, index) + value.concatToString(startIndex, endIndex) + string.substring(index)\n        return this\n    }\n    /**\n     * Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n     * The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n     * @param index the position in this string builder to insert at.\n     * @param value the character sequence from which a subsequence is inserted. If [value] is `null`, then characters will be inserted as if [value] contained the four characters `\\null`.\n     * @param startIndex the beginning (inclusive) of the subsequence to insert.\n     * @param endIndex the end (exclusive) of the subsequence to insert.\n     * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n     * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n     */\n    @SinceKotlin("1.3")\n    @ExperimentalStdlibApi\n    public fun insertRange(index: Int, value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder {\n        AbstractList.checkPositionIndex(index, length)\n        val stringCsq = value.toString()\n        AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)\n        string = string.substring(0, index)

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+ stringCsq.substring(startIndex, endIndex) + string.substring(index)\n    return this\n    }\n}\n\n/**\n * Clears
the content of this string builder making it empty and returns this instance.\n *\n * @sample
samples.text.Strings.clearStringBuilder\n
*\n@SinceKotlin("1.3")\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER",
\["NOTHING_TO_INLINE"])\npublic actual inline fun StringBuilder.clear(): StringBuilder = this.clear()\n\n/**\n *
Sets the character at the specified [index] to the specified [value].\n *\n * @throws IndexOutOfBoundsException if
[index] is out of bounds of this string builder.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER",
",
\["NOTHING_TO_INLINE"])\npublic actual inline operator fun StringBuilder.set(index: Int, value: Char) =
this.set(index, value)\n\n/**\n * Replaces characters in the specified range of this string builder with characters in
the specified string [value] and returns this instance.\n *\n * @param startIndex the beginning (inclusive) of the
range to replace.\n * @param endIndex the end (exclusive) of the range to replace.\n * @param value the string to
replace with.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less
than zero, greater than the length of this string builder, or `startIndex > endIndex`.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER",
\["NOTHING_TO_INLINE"])\npublic actual inline fun StringBuilder.setRange(startIndex: Int, endIndex: Int,
value: String): StringBuilder =\n    this.setRange(startIndex, endIndex, value)\n\n/**\n * Removes the character at
the specified [index] from this string builder and returns this instance.\n *\n * If the `Char` at the specified [index]
is part of a supplementary code point, this method does not remove the entire supplementary character.\n *\n *
@param index the index of `Char` to remove.\n *\n * @throws IndexOutOfBoundsException if [index] is out of
bounds of this string builder.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER",
\["NOTHING_TO_INLINE"])\npublic actual inline fun StringBuilder.deleteAt(index: Int): StringBuilder =
this.deleteAt(index)\n\n/**\n * Removes characters in the specified range from this string builder and returns this
instance.\n *\n * @param startIndex the beginning (inclusive) of the range to remove.\n * @param endIndex the end
(exclusive) of the range to remove.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException]
when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER",
\["NOTHING_TO_INLINE"])\npublic actual inline fun StringBuilder.deleteRange(startIndex: Int, endIndex: Int):
StringBuilder = this.deleteRange(startIndex, endIndex)\n\n/**\n * Copies characters from this string builder into the
[destination] character array.\n *\n * @param destination the array to copy to.\n * @param destinationOffset the
position in the array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the range to copy, 0
by default.\n * @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.\n
*\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out
of range of this string builder indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException
when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n
* or when that index is out of the [destination] array indices range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER",
\["NOTHING_TO_INLINE", "ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS"])\npublic actual
inline fun StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0,
endIndex: Int = this.length) =\n    this.toCharArray(destination, destinationOffset, startIndex, endIndex)\n\n/**\n *
Appends characters in a subarray of the specified character array [value] to this string builder and returns this
instance.\n *\n * Characters are appended in order, starting at specified [startIndex].\n *\n * @param value the array
from which characters are appended.\n * @param startIndex the beginning (inclusive) of the subarray to append.\n *
@param endIndex the end (exclusive) of the subarray to append.\n *\n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex]

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is out of range of the [value] array indices or when `startIndex > endIndex`.
\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER\
", "NOTHING_TO_INLINE")\npublic actual inline fun StringBuilder.appendRange(value: CharArray, startIndex:
Int, endIndex: Int): StringBuilder =\n    this.appendRange(value, startIndex, endIndex)\n\n/**\n * Appends a
subsequence of the specified character sequence [value] to this string builder and returns this instance.\n *
*\n * @param value the character sequence from which a subsequence is appended. If [value] is `null`,\n * then
characters are appended as if [value] contained the four characters `"\n\n\n\n"`. \n * @param startIndex the beginning
(inclusive) of the subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n
*\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out
of range of the [value] character sequence indices or
when `startIndex > endIndex`.
\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER\
", "NOTHING_TO_INLINE")\npublic actual inline fun StringBuilder.appendRange(value: CharSequence?,
startIndex: Int, endIndex: Int): StringBuilder =\n    this.appendRange(value, startIndex, endIndex)\n\n/**\n * Inserts
characters in a subarray of the specified character array [value] into this string builder at the specified [index] and
returns this instance.\n *
*\n * The inserted characters go in same order as in the [value] array, starting at [index].\n
*\n * @param index the position in this string builder to insert at.\n * @param value the array from which characters
are inserted.\n * @param startIndex the beginning (inclusive) of the subarray to insert.\n * @param endIndex the
end (exclusive) of the subarray to insert.\n *
*\n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array
indices or when `startIndex > endIndex`. \n * @throws IndexOutOfBoundsException if [index] is less than zero or
greater than the length of this string builder.
\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER\
", "NOTHING_TO_INLINE")\npublic actual inline fun StringBuilder.insertRange(index: Int, value: CharArray,
startIndex: Int, endIndex: Int): StringBuilder =\n    this.insertRange(index, value, startIndex, endIndex)\n\n/**\n *
Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the
specified [index] and returns this instance.\n *
*\n * The inserted characters go in the same order as in the [value] character
sequence, starting at [index].\n *
*\n * @param index the position in this string builder to insert at.\n * @param value
the character sequence from which a subsequence is inserted. If [value] is `null`,\n * then characters will be
inserted as if [value] contained the four characters
`"\n\n\n\n"`. \n * @param startIndex the beginning (inclusive) of the subsequence to insert.\n * @param endIndex the
end (exclusive) of the subsequence to insert.\n *
*\n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence
indices or when `startIndex > endIndex`. \n * @throws IndexOutOfBoundsException if [index] is less than zero or
greater than the length of this string builder.
\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER\
", "NOTHING_TO_INLINE")\npublic actual inline fun StringBuilder.insertRange(index: Int, value:
CharSequence?, startIndex: Int, endIndex: Int): StringBuilder =\n    this.insertRange(index, value, startIndex,
endIndex)\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n * @package kotlin.text\n\n// actually \s is enough to match all whitespace, but \xA0 added because of different
regex behavior of Rhino used in Selenium tests\npublic actual fun Char.isWhitespace(): Boolean =
toString().matches("[\\s\\xA0]")\n\n@kotlin.internal\npublic actual inline fun Char.toLowerCase():
Char =
js("String.fromCharCode")(toInt()).toLowerCase().charCodeAt(0).unsafeCast<Int>().toChar()\n\n@kotlin.internal
\npublic actual inline fun Char.toUpperCase(): Char =
js("String.fromCharCode")(toInt()).toUpperCase().charCodeAt(0).unsafeCast<Int>().toChar()\n\n/**\n * Returns
`true` if this character is a Unicode high-surrogate code unit (also known as leading-surrogate code unit).\n

```

```

*^/npublic actual fun Char.isHighSurrogate(): Boolean = this in
Char.MIN_HIGH_SURROGATE..Char.MAX_HIGH_SURROGATE\n\n/**\n * Returns `true` if this character is a
Unicode low-surrogate code unit (also known as trailing-surrogate code unit).\n */^/npublic actual fun
Char.isLowSurrogate():
Boolean = this in Char.MIN_LOW_SURROGATE..Char.MAX_LOW_SURROGATE\n","/*\n * Copyright 2010-
2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */^/npackage kotlin.text\n\n/**\n *
Returns `true` if the contents of this string is equal to the word `"true"`, ignoring case, and `false` otherwise.\n
*/^/npublic actual fun String.toBoolean(): Boolean = toLowerCase() == "true"\n\n/**\n * Parses the string as a
signed [Byte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n */^/npublic actual fun String.toByte(): Byte = toByteOrNull() ?:
numberFormatError(this)\n\n/**\n * Parses the string as a signed [Byte] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentException
when [radix] is not a valid radix for string to number conversion.\n */^/npublic actual fun String.toByte(radix: Int):
Byte = toByteOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [Short] number and
returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n
*/^/npublic actual fun String.toShort(): Short = toShortOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the
string as a [Short] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to
number conversion.\n */^/npublic actual fun String.toShort(radix: Int): Short = toShortOrNull(radix) ?:
numberFormatError(this)\n\n/**\n * Parses the string as an [Int] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n */^/npublic actual fun
String.toInt():
Int = toIntOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as an [Int] number and returns the
result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */^/npublic actual fun
String.toInt(radix: Int): Int = toIntOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [Long]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n */^/npublic actual fun String.toLong(): Long = toLongOrNull() ?: numberFormatError(this)\n\n/**\n *
Parses the string as a [Long] number and returns the result.\n * @throws NumberFormatException if the string is not
a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for
string to number conversion.\n */^/npublic actual fun String.toLong(radix: Int): Long
= toLongOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [Double] number and returns
the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */^/npublic
actual fun String.toDouble(): Double = +(this.asDynamic()).unsafeCast<Double>().also {\n    if (it.isNaN() &&
!this.isNaN() || it == 0.0 && this.isBlank())\n        numberFormatError(this)\n}\n\n/**\n * Parses the string as a
[Float] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n */^/n@kotlin.internal.InlineOnly\npublic actual inline fun String.toFloat(): Float =
toDouble().unsafeCast<Float>()\n\n/**\n * Parses the string as a [Double] number and returns the result\n * or `null`
if the string is not a valid representation of a number.\n */^/npublic actual fun String.toDoubleOrNull(): Double? =
+(this.asDynamic()).unsafeCast<Double>().takeIf {\n    !(it.isNaN() && !this.isNaN() || it
== 0.0 && this.isBlank())\n}\n\n/**\n * Parses the string as a [Float] number and returns the result\n * or `null` if
the string is not a valid representation of a number.\n */^/n@kotlin.internal.InlineOnly\npublic actual inline fun
String.toFloatOrNull(): Float? = toDoubleOrNull().unsafeCast<Float?>()\n\n/**\n * Returns a string representation
of this [Byte] value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is not a valid
radix for number to string conversion.\n */^/n@SinceKotlin("1.2")\n@kotlin.internal.InlineOnly\npublic actual
inline fun Byte.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation of

```



```

* Returns a sequence of all occurrences of a regular expression within the [input] string, beginning at the specified
[startIndex].\n * \n * @sample samples.text.Regexp.findAll\n */\n
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n public actual fun findAll(input:
CharSequence, startIndex: Int = 0): Sequence<MatchResult> =\n
    generateSequence({ find(input, startIndex) }, { match -> match.next() })\n\n /**\n * Attempts to match the
entire [input] CharSequence against the pattern.\n * \n * @return An instance of [MatchResult] if the entire
input matches or `null` otherwise.\n */\n public actual fun matchEntire(input: CharSequence): MatchResult? {\n
    if (pattern.startsWith('^') && pattern.endsWith('$'))\n        return find(input)\n    else\n        return
Regex("\\^${pattern.trimStart('^').trimEnd('$')}\\$", options).find(input)\n    }\n\n /**\n * Replaces all
occurrences of this regular expression in the specified [input] string with specified [replacement] expression.\n * \n
* @param replacement A replacement expression that can include substitutions. See
[String.prototype.replace](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String/replace) function docs for details.\n */\n public
actual fun replace(input:
CharSequence, replacement: String): String = input.toString().nativeReplace(nativePattern, replacement)\n\n
/**\n * Replaces all occurrences of this regular expression in the specified [input] string with the result of\n *
the given function [transform] that takes [MatchResult] and returns a string to be used as a\n * replacement for
that match.\n */\n public actual inline fun replace(input: CharSequence, transform: (MatchResult) ->
CharSequence): String {\n    var match = find(input)\n    if (match == null) return input.toString()\n    var
lastStart = 0\n    val length = input.length\n    val sb = StringBuilder(length)\n    do {\n        val
foundMatch = match!!\n        sb.append(input, lastStart, foundMatch.range.start)\n        sb.append(transform(foundMatch))\n        lastStart = foundMatch.range.endInclusive + 1\n        match =
foundMatch.next()\n    } while (lastStart < length && match != null)\n\n    if (lastStart < length) {\n        sb.append(input, lastStart, length)\n    }\n    return sb.toString()\n}\n\n
/**\n * Replaces the first occurrence of this regular expression in the specified [input] string with specified
[replacement] expression.\n * \n * @param replacement A replacement expression that can include
substitutions. See [String.prototype.replace](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String/replace) function docs for details.\n */\n public
actual fun replaceFirst(input: CharSequence, replacement: String): String {\n    val nonGlobalOptions =
options.map { it.value }.joinToString(separator = "\\")\n    return input.toString().nativeReplace(Regex(pattern,
nonGlobalOptions), replacement)\n}\n\n /**\n * Splits the [input] CharSequence around matches of this
regular expression.\n * \n * @param limit Non-negative value specifying the maximum number of substrings
the string
can be split to.\n * Zero by default means no limit is set.\n */\n
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n public actual fun split(input:
CharSequence, limit: Int = 0): List<String> {\n    require(limit >= 0) { "Limit must be non-negative, but was
$limit" }\n    val matches = findAll(input).let { if (limit == 0) it else it.take(limit - 1) }\n    val result =
mutableListOf<String>()\n    var lastStart = 0\n    for (match in matches) {\n        result.add(input.subSequence(lastStart, match.range.start).toString())\n        lastStart = match.range.endInclusive +
1\n    }\n    result.add(input.subSequence(lastStart, input.length).toString())\n    return result\n}\n\n
/**\n * Returns the string representation of this regular expression, namely the [pattern] of this regular
expression.\n * \n * Note that another regular expression constructed from the same pattern string may have
different [options]\n
* and may match strings differently.\n */\n public override fun toString(): String =
nativePattern.toString()\n\n actual companion object {\n    /**\n * Returns a regular expression that
matches the specified [literal] string literally.\n * No characters of that string will have special meaning when
searching for an occurrence of the regular expression.\n */\n public actual fun fromLiteral(literal: String):
Regex = Regex(escape(literal))\n\n /**\n * Returns a regular expression pattern string that matches the

```



```

null)\n    other == null\n    else if (!ignoreCase)\n        this == other\n    else\n        other != null &&
this.toLowerCase() ==
other.toLowerCase()\n\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic
actual fun CharSequence.regionMatches(thisOffset: Int,
    other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean = false): Boolean =\n
regionMatchesImpl(thisOffset, other, otherOffset, length, ignoreCase)\n\n\n/**\n * Returns a copy of this string
having its first letter uppercased, or the original string,\n * if it's empty or already starts with an upper case letter.\n
*\n * @sample samples.text.Strings.capitalize\n */\npublic actual fun String.capitalize(): String {\n    return if
(isNotEmpty()) substring(0, 1).toUpperCase() + substring(1) else this\n}\n\n\n/**\n * Returns a copy of this string
having its first letter lowercased, or the original string,\n * if it's empty or already starts with a lower case letter.\n
*\n * @sample samples.text.Strings.decapitalize\n */\npublic actual fun String.decapitalize(): String {\n    return if
(isNotEmpty()) substring(0, 1).toLowerCase() + substring(1) else this\n}\n\n\n/**\n * Returns a string containing this
char sequence repeated [n] times.\n * @throws [IllegalArgumentException] when
n < 0.\n */\npublic actual fun CharSequence.repeat(n: Int): String {\n    require(n >= 0) { \"Count 'n' must be non-
negative, but was $n.\" }\n    return when (n) {\n        0 -> \"\"\n        1 -> this.toString()\n        else -> {\n            var
result = \"\"\n            if (!isEmpty()) {\n                var s = this.toString()\n                var count = n\n                while
(true) {\n                    if ((count and 1) == 1) {\n                        result += s\n                    }\n                    count =
count ushr 1\n                    if (count == 0) {\n                        break\n                    }\n                    s += s\n                }\n            }\n            return result\n        }\n    }\n}\n\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun
String.replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) \"gi\" else \"g\"),
    Regex.escapeReplacement(newValue))\n\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENT
S\")\npublic actual fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) \"gi\" else \"g\"),
    newChar.toString())\n\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual
fun String.replaceFirst(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) \"i\" else \"\"),
    Regex.escapeReplacement(newValue))\n\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENT
S\")\npublic actual fun String.replaceFirst(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) \"i\" else \"\"),
    newChar.toString())\n\n\n\"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source
code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n\npackage
kotlin.text\n\n\n/**\n * Returns the negative [size] if [throwOnMalformed] is false, throws [CharacterCodingException]
otherwise. *\n */\n@UseExperimental(ExperimentalStdlibApi::class)\nprivate fun malformed(size: Int, index: Int,
throwOnMalformed: Boolean): Int {\n    if (throwOnMalformed) throw CharacterCodingException(\"Malformed
sequence starting at ${index - 1}\")\n    return -size\n}\n\n\n/**\n * Returns code point corresponding to UTF-16
surrogate pair,\n * where the first of the pair is the [high] and the second is in the [string] at the [index].\n * Returns
zero if the pair is malformed and [throwOnMalformed] is false.\n * @throws CharacterCodingException if the
pair is malformed and [throwOnMalformed] is true.\n */\nprivate fun codePointFromSurrogate(string: String, high:
Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n    if (high !in 0xD800..0xDBFF || index
>= endIndex) {\n        return malformed(0, index, throwOnMalformed)\n    }\n    val low = string[index].toInt()\n
if (low !in 0xDC00..0xDFFF) {\n        return malformed(0, index, throwOnMalformed)\n    }\n    return 0x10000 +
((high and 0x3FF) shl 10) or (low and 0x3FF)\n}\n\n\n/**\n * Returns code point corresponding to UTF-8 sequence of
two bytes,\n * where the first byte of the sequence is the [byte1] and the second byte is in the [bytes] array at the
[index].\n * Returns zero if the sequence is malformed and [throwOnMalformed] is false.\n * @throws
CharacterCodingException if the sequence of two bytes is malformed and [throwOnMalformed] is true.\n

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*/private fun codePointFrom2(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed:
Boolean): Int {
    if (byte1 and 0x1E == 0 || index >= endIndex) {
        return malformed(0, index,
throwOnMalformed)
    }
    val byte2 = bytes[index].toInt()
    if (byte2 and 0xC0 != 0x80) {
        return
malformed(0,
index, throwOnMalformed)
    }
    return (byte1 shl 6) xor byte2 xor 0xF80
}

/** Returns code point
corresponding to UTF-8 sequence of three bytes,
* where the first byte of the sequence is the [byte1] and the
others are in the [bytes] array starting from the [index].
* Returns a non-positive value indicating number of bytes
from [bytes] included in malformed sequence
* if the sequence is malformed and [throwOnMalformed] is false.
*
* @throws CharacterCodingException if the sequence of three bytes is malformed and [throwOnMalformed] is
true.
*/private fun codePointFrom3(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed:
Boolean): Int {
    if (index >= endIndex) {
        return malformed(0, index, throwOnMalformed)
    }
    val
byte2 = bytes[index].toInt()
    if (byte1 and 0xF == 0) {
        if (byte2 and 0xE0 != 0xA0) {
            // Non-
shortest form
            return malformed(0, index, throwOnMalformed)
        }
    } else if (byte1 and 0xF == 0xD) {
        if (byte2 and 0xE0 != 0x80) {
            // Surrogate code point
            return malformed(0, index, throwOnMalformed)
        }
    } else if (byte2 and 0xC0 != 0x80) {
        return
malformed(0, index, throwOnMalformed)
    }
    if (index + 1 == endIndex) {
        return malformed(1, index,
throwOnMalformed)
    }
    val byte3 = bytes[index + 1].toInt()
    if (byte3 and 0xC0 != 0x80) {
        return
malformed(1, index, throwOnMalformed)
    }
    return (byte1 shl 12) xor (byte2 shl 6) xor byte3 xor -
0x1E080
}

/** Returns code point corresponding to UTF-8 sequence of four bytes,
* where the first byte
of the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].
* Returns a non-
positive value indicating number of bytes from [bytes] included in malformed sequence
* if the sequence is
malformed and [throwOnMalformed] is false.
*
* @throws CharacterCodingException
if the sequence of four bytes is malformed and [throwOnMalformed] is true.
*/private fun
codePointFrom4(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {
    if
(index >= endIndex) {
        malformed(0, index, throwOnMalformed)
    }
    val byte2 = bytes[index].toInt()
    if (byte1 and 0xF == 0x0) {
        if (byte2 and 0xF0 <= 0x80) {
            // Non-shortest form
            return
malformed(0, index, throwOnMalformed)
        }
    } else if (byte1 and 0xF == 0x4) {
        if (byte2 and 0xF0
!= 0x80) {
            // Out of Unicode code points domain (larger than U+10FFFF)
            return malformed(0,
index, throwOnMalformed)
        }
    } else if (byte1 and 0xF > 0x4) {
        return malformed(0, index,
throwOnMalformed)
    }
    if (byte2 and 0xC0 != 0x80) {
        return malformed(0, index,
throwOnMalformed)
    }
    if (index + 1 == endIndex) {
        return malformed(1, index,
throwOnMalformed)
    }
    val byte3 = bytes[index + 1].toInt()
    if (byte3 and 0xC0 != 0x80) {
        return
malformed(1, index, throwOnMalformed)
    }
    if (index + 2 == endIndex) {
        return malformed(2, index,
throwOnMalformed)
    }
    val byte4 = bytes[index + 2].toInt()
    if (byte4 and 0xC0 != 0x80) {
        return
malformed(2, index, throwOnMalformed)
    }
    return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl 6) xor
byte4 xor 0x381F80
}

/** Maximum number of bytes needed to encode a single char.
*
* Code points in
`0..0x7F` are encoded in a single byte.
* Code points in `0x80..0x7FF` are encoded in two bytes.
* Code points
in `0x800..0xD7FF` or in `0xE000..0xFFFF` are encoded in three bytes.
* Surrogate code points in
`0xD800..0xDFFF` are not Unicode scalar values, therefore aren't encoded.
* Code points in
`0x10000..0x10FFFF` are represented by a pair of surrogate `Char`s and are encoded in four bytes.
*/private
const
val MAX_BYTES_PER_CHAR = 3

/** The byte sequence a malformed UTF-16 char sequence is replaced
by.
*/private val REPLACEMENT_BYTE_SEQUENCE: ByteArray = byteArrayOf(0xEF.toByte(),
0xBF.toByte(), 0xBD.toByte())

/** Encodes the [string] using UTF-8 and returns the resulting [ByteArray].
*
* @param string the string to encode.
* @param startIndex the start offset (inclusive) of the substring to
encode.
* @param endIndex the end offset (exclusive) of the substring to encode.
* @param
throwOnMalformed whether to throw on malformed char sequence or replace by the
[REPLACEMENT_BYTE_SEQUENCE].
* @throws CharacterCodingException if the char sequence is

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malformed and [throwOnMalformed] is true.\n *\ninternal fun encodeUtf8(string: String, startIndex: Int, endIndex:
Int, throwOnMalformed: Boolean): ByteArray {\n    require(startIndex >= 0 && endIndex <= string.length &&
startIndex <= endIndex)\n    val bytes = ByteArray((endIndex - startIndex) * MAX_BYTES_PER_CHAR)\n
    var byteIndex = 0\n    var charIndex = startIndex\n    while (charIndex < endIndex) {\n        val code =
string[charIndex++].toInt()\n        when {\n            code < 0x80 ->\n                bytes[byteIndex++] = code.toByte()\n            code < 0x800 -> {\n                bytes[byteIndex++] = ((code shr 6) or 0xC0).toByte()\n
bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n            }\n            code < 0xD800 || code >= 0xE000 ->
{\n                bytes[byteIndex++] = ((code shr 12) or 0xE0).toByte()\n                bytes[byteIndex++] = (((code shr 6)
and 0x3F) or 0x80).toByte()\n                bytes[byteIndex++] = (((code and 0x3F) or 0x80).toByte()\n                }\n            else -> { // Surrogate char value\n                val codePoint = codePointFromSurrogate(string, code, charIndex,
endIndex, throwOnMalformed)\n                if (codePoint <= 0) {\n                    bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[0]\n                    bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[1]\n                    bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[2]\n                } else {\n                    bytes[byteIndex++] = ((codePoint shr
18) or 0xF0).toByte()\n                    bytes[byteIndex++] = (((codePoint shr 12) and 0x3F) or 0x80).toByte()\n
                    bytes[byteIndex++] = (((codePoint shr 6) and 0x3F) or 0x80).toByte()\n                    bytes[byteIndex++] =
((codePoint and 0x3F) or 0x80).toByte()\n                    charIndex++\n                }\n            }\n        }\n    }\n    return if (bytes.size == byteIndex) bytes else bytes.copyOf(byteIndex)\n}\n\n/**\n * The character a malformed
UTF-8 byte sequence is replaced by.\n */\nprivate const val REPLACEMENT_CHAR = "\uFFFFD"\n\n/**\n *
Decodes the UTF-8 [bytes] array and returns the resulting [String].\n */\n * @param bytes the byte array to decode.\n
* @param startIndex the start offset (inclusive) of the array to be decoded.\n
* @param endIndex the end offset (exclusive) of the array to be encoded.\n
* @param throwOnMalformed whether to throw on malformed byte sequence or replace by the [REPLACEMENT_CHAR].\n
* @throws CharacterCodingException if the array is malformed UTF-8 byte sequence and [throwOnMalformed] is true.\n
*\ninternal fun decodeUtf8(bytes: ByteArray, startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): String
{\n    require(startIndex >= 0 && endIndex <= bytes.size && startIndex <= endIndex)\n    val byteIndex =
startIndex\n    val stringBuilder = StringBuilder()\n    while (byteIndex < endIndex) {\n        val byte =
bytes[byteIndex++].toInt()\n        when {\n            byte >= 0 ->\n                stringBuilder.append(byte.toChar())\n            byte shr 5 == -2 -> {\n                val code = codePointFrom2(bytes, byte, byteIndex, endIndex,
throwOnMalformed)\n                if (code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n
                    byteIndex += -code\n                } else {\n                    stringBuilder.append(code.toChar())\n                    byteIndex
+= 1\n                }\n            }\n            byte shr 4 == -2 -> {\n                val code = codePointFrom3(bytes, byte,
byteIndex, endIndex, throwOnMalformed)\n                if (code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n
                    byteIndex += -code\n                } else {\n                    stringBuilder.append(code.toChar())\n                    byteIndex
+= 2\n                }\n            }\n            byte shr 3 == -2 -> {\n                val code = codePointFrom4(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n                if
(code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n                    byteIndex += -code\n                } else {\n                    val high = (code - 0x10000) shr 10 or 0xD800\n                    val low = (code and 0x3FFF)
or 0xDC00\n                    stringBuilder.append(high.toChar())\n                    stringBuilder.append(low.toChar())\n
                    byteIndex += 3\n                }\n            }\n            else -> {\n                malformed(0, byteIndex,
throwOnMalformed)\n                stringBuilder.append(REPLACEMENT_CHAR)\n            }\n        }\n    }\n    return stringBuilder.toString()\n}\n\n/**\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic
actual enum class DurationUnit(internal val scale: Double) {\n    /**\n     * Time unit representing one nanosecond,
which is 1/1000 of a microsecond.\n     */\n    NANOSECONDS(1e0),\n    /**\n     * Time unit representing one

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microsecond, which is 1/1000 of a millisecond.\n    *^n    MICROSECONDS(1e3),\n
/**\n    * Time unit representing one millisecond, which is 1/1000 of a second.\n    *^n
MILLISECONDS(1e6),\n    /**\n    * Time unit representing one second.\n    *^n    SECONDS(1e9),\n    /**\n    *
Time unit representing one minute.\n    *^n    MINUTES(60e9),\n    /**\n    * Time unit representing one hour.\n
*^n    HOURS(3600e9),\n    /**\n    * Time unit representing one day, which is always equal to 24 hours.\n    *^n
DAYS(86400e9);}\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal actual fun
convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double {\n    val
sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n    return when {\n
sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale)\n        sourceCompareTarget < 0 -> value /
(targetUnit.scale / sourceUnit.scale)\n        else -> value\n    }\n}\n\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o.
and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *^n\npackage kotlin.time\nimport org.w3c.performance.GlobalPerformance\nimport
org.w3c.performance.Performance\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal actual object
MonotonicTimeSource : TimeSource {\n    private val actualSource: TimeSource = run {\n        val isNode:
Boolean = js("typeof process !== 'undefined' && process.versions && !process.versions.node")\n        if
(isNode)\n            HrTimeSource(js("process").unsafeCast<Process>())\n        else\n
js("self").unsafeCast<GlobalPerformance?>()?.performance?.let(::PerformanceTimeSource)\n        ?:
DateNowTimeSource\n    }\n    override fun markNow(): TimeMark = actualSource.markNow()\n}\n\ninternal
external interface Process {\n    fun hrtime(time: Array<Double> = definedExternally):
Array<Double>\n}\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal
class HrTimeSource(val process: Process) : TimeSource {\n    override fun markNow(): TimeMark = object :
TimeMark() {\n        val startedAt = process.hrtime()\n        override fun elapsedNow(): Duration =\nprocess.hrtime(startedAt).let { (seconds, nanos) -> seconds.seconds + nanos.nanoseconds }\n    }\n    override fun
toString(): String = "TimeSource(process.hrtime())"\n}\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal
class PerformanceTimeSource(val performance: Performance) : AbstractDoubleTimeSource(unit =
DurationUnit.MILLISECONDS) {\n    override fun read(): Double = performance.now()\n    override fun toString():
String = "TimeSource(self.performance.now())"\n}\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal
object DateNowTimeSource : AbstractDoubleTimeSource(unit = DurationUnit.MILLISECONDS) {\n    override
fun read(): Double = kotlin.js.Date.now()\n    override fun toString(): String = "TimeSource(Date.now())"\n}\n\n", "/*\n * Copyright
2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *^n\npackage kotlin.time\nimport
kotlin.js.json\nimport kotlin.math.*\n\ninternal actual fun formatToExactDecimals(value: Double, decimals: Int):
String {\n    val rounded = if (decimals == 0) {\n        value\n    } else {\n        val pow = 10.0.pow(decimals)\n
@Suppress("DEPRECATION", "DEPRECATION_ERROR")\n        kotlin.js.Math.round(abs(value) * pow) /
pow * sign(value)\n    }\n    return rounded.asDynamic().toFixed(decimals).unsafeCast<String>()\n}\n\ninternal
actual fun formatUpToDecimals(value: Double, decimals: Int): String {\n    return
value.asDynamic().toLocaleString("en-us", json("maximumFractionDigits" to
decimals)).unsafeCast<String>()\n}\n\ninternal actual fun formatScientific(value: Double): String {\n    return
value.asDynamic().toExponential(2).unsafeCast<String>()\n}\n\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *^n\npackage
org.w3c.dom\n\n@Deprecated("Use UnionMessagePortOrWindowProxy instead.",
ReplaceWith("UnionMessagePortOrWindowProxy"))\ntypealias UnionMessagePortOrWindow =
UnionMessagePortOrWindowProxy\n\n@Deprecated("Use `as` instead.", ReplaceWith("`as`"))\nvar
HTMLLinkElement.as_ :\n    get() = `as`\n    set(value) {\n        `as` = value\n    }\n\n@Deprecated("Use `is`
instead.", ReplaceWith("`is`"))\nvar ElementCreationOptions.is_ :\n    get() = `is`\n    set(value) {\n        `is` =

```

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value\n  }","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.khronos.webgl\n\nimport kotlin.js.*\nimport
org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport
org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external interface
WebGLContextAttributes {\n  var alpha: Boolean? /* = true */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var depth: Boolean? /* = true */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var stencil: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var antialias: Boolean? /* = true */\n    get()
= definedExternally\n    set(value) = definedExternally\n  var premultipliedAlpha: Boolean? /* = true */\n
get() = definedExternally\n    set(value) = definedExternally\n  var preserveDrawingBuffer: Boolean? /* = false
*/\n    get() = definedExternally\n    set(value) = definedExternally\n  var
preferLowPowerToHighPerformance: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var failIfMajorPerformanceCaveat: Boolean? /* = false */\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
WebGLContextAttributes(alpha: Boolean? = true, depth: Boolean? = true, stencil: Boolean? = false, antialias:
Boolean? = true, premultipliedAlpha: Boolean? = true, preserveDrawingBuffer: Boolean? = false,
preferLowPowerToHighPerformance: Boolean? = false, failIfMajorPerformanceCaveat: Boolean? = false):
WebGLContextAttributes {\n  val o = js("{}")\n  o["alpha"] = alpha\n  o["depth"] = depth\n  o["stencil"] = stencil\n  o["antialias"] = antialias\n
o["premultipliedAlpha"] = premultipliedAlpha\n  o["preserveDrawingBuffer"] = preserveDrawingBuffer\n
o["preferLowPowerToHighPerformance"] = preferLowPowerToHighPerformance\n
o["failIfMajorPerformanceCaveat"] = failIfMajorPerformanceCaveat\n  return o\n}\n\npublic external abstract
class WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLBuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLBuffer) to Kotlin\n */\npublic external
abstract class WebGLBuffer : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLFramebuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLFramebuffer) to Kotlin\n */\npublic
external abstract class WebGLFramebuffer : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLProgram](https://developer.mozilla.org/en/docs/Web/API/WebGLProgram) to Kotlin\n */\npublic external
abstract class WebGLProgram : WebGLObject\n\n/**\n
* Exposes the JavaScript
[WebGLRenderbuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderbuffer) to Kotlin\n */\npublic
external abstract class WebGLRenderbuffer : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLShader](https://developer.mozilla.org/en/docs/Web/API/WebGLShader) to Kotlin\n */\npublic external
abstract class WebGLShader : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin\n */\npublic external
abstract class WebGLTexture : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLUniformLocation](https://developer.mozilla.org/en/docs/Web/API/WebGLUniformLocation) to Kotlin\n
*/\npublic external abstract class WebGLUniformLocation\n\n/**\n * Exposes the JavaScript
[WebGLActiveInfo](https://developer.mozilla.org/en/docs/Web/API/WebGLActiveInfo) to Kotlin\n */\npublic
external abstract class WebGLActiveInfo {\n  open val size: Int\n  open val type: Int\n  open val name:
String\n}\n\n/**\n * Exposes the JavaScript
[WebGLShaderPrecisionFormat](https://developer.mozilla.org/en/docs/Web/API/WebGLShaderPrecisionFormat) to
Kotlin\n */\npublic external abstract class WebGLShaderPrecisionFormat {\n  open val rangeMin: Int\n  open val

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rangeMax: Int\n open val precision:

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Int\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface  
WebGLRenderingContextBase {\n val canvas: HTMLCanvasElement\n val drawingBufferWidth: Int\n val  
drawingBufferHeight: Int\n fun getContextAttributes(): WebGLContextAttributes?\n fun isContextLost():  
Boolean\n fun getSupportedExtensions(): Array<String>?\n fun getExtension(name: String): dynamic\n fun  
activeTexture(texture: Int)\n fun attachShader(program: WebGLProgram?, shader: WebGLShader?)\n fun  
bindAttribLocation(program: WebGLProgram?, index: Int, name: String)\n fun bindBuffer(target: Int, buffer:  
WebGLBuffer?)\n fun bindFramebuffer(target: Int, framebuffer:  
WebGLFramebuffer?)\n fun bindRenderbuffer(target: Int, renderbuffer: WebGLRenderbuffer?)\n fun  
bindTexture(target: Int, texture: WebGLTexture?)\n fun blendColor(red: Float, green: Float, blue: Float, alpha:  
Float)\n fun blendEquation(mode: Int)\n fun blendEquationSeparate(modeRGB: Int, modeAlpha: Int)\n fun  
blendFunc(sfactor: Int, dfactor: Int)\n fun blendFuncSeparate(srcRGB: Int, dstRGB: Int, srcAlpha: Int, dstAlpha:  
Int)\n fun bufferData(target: Int, size: Int, usage: Int)\n fun bufferData(target: Int, data: BufferDataSource?,  
usage: Int)\n fun bufferSubData(target: Int, offset: Int, data: BufferDataSource?)\n fun  
checkFramebufferStatus(target: Int): Int\n fun clear(mask: Int)\n fun clearColor(red: Float, green: Float, blue:  
Float, alpha: Float)\n fun clearDepth(depth: Float)\n fun clearStencil(s: Int)\n fun colorMask(red: Boolean,  
green: Boolean, blue: Boolean, alpha: Boolean)\n fun compileShader(shader: WebGLShader?)\n fun  
compressedTexImage2D(target:  
Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, data: ArrayBufferView)\n fun  
compressedTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int, format: Int, data:  
ArrayBufferView)\n fun copyTexImage2D(target: Int, level: Int, internalformat: Int, x: Int, y: Int, width: Int,  
height: Int, border: Int)\n fun copyTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, x: Int, y: Int,  
width: Int, height: Int)\n fun createBuffer(): WebGLBuffer?\n fun createFramebuffer(): WebGLFramebuffer?\n  
fun createProgram(): WebGLProgram?\n fun createRenderbuffer(): WebGLRenderbuffer?\n fun  
createShader(type: Int): WebGLShader?\n fun createTexture(): WebGLTexture?\n fun cullFace(mode: Int)\n  
fun deleteBuffer(buffer: WebGLBuffer?)\n fun deleteFramebuffer(framebuffer: WebGLFramebuffer?)\n fun  
deleteProgram(program: WebGLProgram?)\n fun deleteRenderbuffer(renderbuffer:  
WebGLRenderbuffer?)\n fun deleteShader(shader: WebGLShader?)\n fun deleteTexture(texture:  
WebGLTexture?)\n fun depthFunc(func: Int)\n fun depthMask(flag: Boolean)\n fun depthRange(zNear: Float,  
zFar: Float)\n fun detachShader(program: WebGLProgram?, shader: WebGLShader?)\n fun disable(cap: Int)\n  
fun disableVertexAttribArray(index: Int)\n fun drawArrays(mode: Int, first: Int, count: Int)\n fun  
drawElements(mode: Int, count: Int, type: Int, offset: Int)\n fun enable(cap: Int)\n fun  
enableVertexAttribArray(index: Int)\n fun finish()\n fun flush()\n fun framebufferRenderbuffer(target: Int,  
attachment: Int, renderbuffertarget: Int, renderbuffer: WebGLRenderbuffer?)\n fun framebufferTexture2D(target:  
Int, attachment: Int, textarget: Int, texture: WebGLTexture?, level: Int)\n fun frontFace(mode: Int)\n fun  
generateMipmap(target: Int)\n fun getActiveAttrib(program: WebGLProgram?, index: Int): WebGLActiveInfo?\n  
fun getActiveUniform(program:  
WebGLProgram?, index: Int): WebGLActiveInfo?\n fun getAttachedShaders(program: WebGLProgram?):  
Array<WebGLShader>?\n fun getAttribLocation(program: WebGLProgram?, name: String): Int\n fun  
getBufferParameter(target: Int, pname: Int): Any?\n fun getParameter(pname: Int): Any?\n fun getError(): Int\n  
fun getFramebufferAttachmentParameter(target: Int, attachment: Int, pname: Int): Any?\n fun  
getProgramParameter(program: WebGLProgram?, pname: Int): Any?\n fun getProgramInfoLog(program:  
WebGLProgram?): String?\n fun getRenderbufferParameter(target: Int, pname: Int): Any?\n fun  
getShaderParameter(shader: WebGLShader?, pname: Int): Any?\n fun getShaderPrecisionFormat(shaderType: Int,  
precisionType: Int): WebGLShaderPrecisionFormat?\n fun getShaderInfoLog(shader: WebGLShader?): String?\n  
fun getShaderSource(shader: WebGLShader?): String?\n fun getTexParameter(target: Int, pname: Int): Any?\n  
fun getUniform(program: WebGLProgram?, location: WebGLUniformLocation?):
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Any?\n fun glGetUniformLocation(program: WebGLProgram?, name: String): WebGLUniformLocation?\n fun
getVertexAttrib(index: Int, pname: Int): Any?\n fun glVertexAttribOffset(index: Int, pname: Int): Int\n fun
hint(target: Int, mode: Int)\n fun isBuffer(buffer: WebGLBuffer?): Boolean\n fun isEnabled(cap: Int): Boolean\n
fun isFramebuffer(framebuffer: WebGLFramebuffer?): Boolean\n fun isProgram(program: WebGLProgram?):
Boolean\n fun isRenderbuffer(renderbuffer: WebGLRenderbuffer?): Boolean\n fun isShader(shader:
WebGLShader?): Boolean\n fun isTexture(texture: WebGLTexture?): Boolean\n fun lineWidth(width: Float)\n
fun linkProgram(program: WebGLProgram?)\n fun pixelStorei(pname: Int, param: Int)\n fun
polygonOffset(factor: Float, units: Float)\n fun readPixels(x: Int, y: Int, width: Int, height: Int, format: Int, type:
Int, pixels: ArrayBufferView?)\n fun renderbufferStorage(target: Int, internalformat: Int, width: Int,
height: Int)\n fun sampleCoverage(value: Float, invert: Boolean)\n fun scissor(x: Int, y: Int, width: Int, height:
Int)\n fun shaderSource(shader: WebGLShader?, source: String)\n fun stencilFunc(func: Int, ref: Int, mask:
Int)\n fun stencilFuncSeparate(face: Int, func: Int, ref: Int, mask: Int)\n fun stencilMask(mask: Int)\n fun
stencilMaskSeparate(face: Int, mask: Int)\n fun stencilOp(fail: Int, zfail: Int, zpass: Int)\n fun
stencilOpSeparate(face: Int, fail: Int, zfail: Int, zpass: Int)\n fun texImage2D(target: Int, level: Int, internalformat:
Int, width: Int, height: Int, border: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n fun texImage2D(target:
Int, level: Int, internalformat: Int, format: Int, type: Int, source: TexImageSource?)\n fun texParameterf(target: Int,
pname: Int, param: Float)\n fun texParameteri(target: Int, pname: Int, param: Int)\n fun texSubImage2D(target:
Int, level: Int, xoffset: Int, yoffset: Int, width: Int,
height: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n fun texSubImage2D(target: Int, level: Int, xoffset:
Int, yoffset: Int, format: Int, type: Int, source: TexImageSource?)\n fun uniform1f(location:
WebGLUniformLocation?, x: Float)\n fun uniform1fv(location: WebGLUniformLocation?, v: Float32Array)\n
fun uniform1fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun uniform1i(location:
WebGLUniformLocation?, x: Int)\n fun uniform1iv(location: WebGLUniformLocation?, v: Int32Array)\n fun
uniform1iv(location: WebGLUniformLocation?, v: Array<Int>)\n fun uniform2f(location:
WebGLUniformLocation?, x: Float, y: Float)\n fun uniform2fv(location: WebGLUniformLocation?, v:
Float32Array)\n fun uniform2fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun
uniform2i(location: WebGLUniformLocation?, x: Int, y: Int)\n fun uniform2iv(location:
WebGLUniformLocation?, v: Int32Array)\n fun uniform2iv(location: WebGLUniformLocation?, v: Array<Int>)\n
fun uniform3f(location: WebGLUniformLocation?, x: Float, y: Float, z: Float)\n fun uniform3fv(location:
WebGLUniformLocation?, v: Float32Array)\n fun uniform3fv(location: WebGLUniformLocation?, v:
Array<Float>)\n fun uniform3i(location: WebGLUniformLocation?, x: Int, y: Int, z: Int)\n fun
uniform3iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform3iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform4f(location: WebGLUniformLocation?, x: Float, y: Float,
z: Float, w: Float)\n fun uniform4fv(location: WebGLUniformLocation?, v: Float32Array)\n fun
uniform4fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun uniform4i(location:
WebGLUniformLocation?, x: Int, y: Int, z: Int, w: Int)\n fun uniform4iv(location: WebGLUniformLocation?, v:
Int32Array)\n fun uniform4iv(location: WebGLUniformLocation?, v: Array<Int>)\n fun
uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun
uniformMatrix2fv(location:
WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun uniformMatrix3fv(location:
WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun uniformMatrix3fv(location:
WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun uniformMatrix4fv(location:
WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun uniformMatrix4fv(location:
WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun useProgram(program:
WebGLProgram?)\n fun validateProgram(program: WebGLProgram?)\n fun vertexAttrib1f(index: Int, x:
Float)\n fun vertexAttrib1fv(index: Int, values: dynamic)\n fun vertexAttrib2f(index: Int, x: Float, y: Float)\n
fun vertexAttrib2fv(index: Int, values: dynamic)\n fun vertexAttrib3f(index: Int, x: Float, y: Float, z: Float)\n fun
vertexAttrib3fv(index: Int, values: dynamic)\n fun vertexAttrib4f(index: Int, x: Float, y: Float, z: Float, w: Float)\n

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fun vertexAttrib4fv(index:
Int, values: dynamic)\n fun vertexAttribPointer(index: Int, size: Int, type: Int, normalized: Boolean, stride: Int,
offset: Int)\n fun viewport(x: Int, y: Int, width: Int, height: Int)\n\n companion object {\n val
DEPTH_BUFFER_BIT: Int\n val STENCIL_BUFFER_BIT: Int\n val COLOR_BUFFER_BIT: Int\n
val POINTS: Int\n val LINES: Int\n val LINE_LOOP: Int\n val LINE_STRIP: Int\n val
TRIANGLES: Int\n val TRIANGLE_STRIP: Int\n val TRIANGLE_FAN: Int\n val ZERO: Int\n
val ONE: Int\n val SRC_COLOR: Int\n val ONE_MINUS_SRC_COLOR: Int\n val SRC_ALPHA:
Int\n val ONE_MINUS_SRC_ALPHA: Int\n val DST_ALPHA: Int\n val
ONE_MINUS_DST_ALPHA: Int\n val DST_COLOR: Int\n val ONE_MINUS_DST_COLOR: Int\n
val SRC_ALPHA_SATURATE: Int\n val FUNC_ADD: Int\n val BLEND_EQUATION: Int\n val
BLEND_EQUATION_RGB: Int\n val BLEND_EQUATION_ALPHA:
Int\n val FUNC_SUBTRACT: Int\n val FUNC_REVERSE_SUBTRACT: Int\n val
BLEND_DST_RGB: Int\n val BLEND_SRC_RGB: Int\n val BLEND_DST_ALPHA: Int\n val
BLEND_SRC_ALPHA: Int\n val CONSTANT_COLOR: Int\n val ONE_MINUS_CONSTANT_COLOR:
Int\n val CONSTANT_ALPHA: Int\n val ONE_MINUS_CONSTANT_ALPHA: Int\n val
BLEND_COLOR: Int\n val ARRAY_BUFFER: Int\n val ELEMENT_ARRAY_BUFFER: Int\n val
ARRAY_BUFFER_BINDING: Int\n val ELEMENT_ARRAY_BUFFER_BINDING: Int\n val
STREAM_DRAW: Int\n val STATIC_DRAW: Int\n val DYNAMIC_DRAW: Int\n val
BUFFER_SIZE: Int\n val BUFFER_USAGE: Int\n val CURRENT_VERTEX_ATTRIB: Int\n val
FRONT: Int\n val BACK: Int\n val FRONT_AND_BACK: Int\n val CULL_FACE: Int\n val
BLEND: Int\n val DITHER: Int\n val STENCIL_TEST: Int\n val DEPTH_TEST: Int\n val
SCISSOR_TEST:
Int\n val POLYGON_OFFSET_FILL: Int\n val SAMPLE_ALPHA_TO_COVERAGE: Int\n val
SAMPLE_COVERAGE: Int\n val NO_ERROR: Int\n val INVALID_ENUM: Int\n val
INVALID_VALUE: Int\n val INVALID_OPERATION: Int\n val OUT_OF_MEMORY: Int\n val CW:
Int\n val CCW: Int\n val LINE_WIDTH: Int\n val ALIASED_POINT_SIZE_RANGE: Int\n val
ALIASED_LINE_WIDTH_RANGE: Int\n val CULL_FACE_MODE: Int\n val FRONT_FACE: Int\n
val DEPTH_RANGE: Int\n val DEPTH_WRITEMASK: Int\n val DEPTH_CLEAR_VALUE: Int\n val
DEPTH_FUNC: Int\n val STENCIL_CLEAR_VALUE: Int\n val STENCIL_FUNC: Int\n val
STENCIL_FAIL: Int\n val STENCIL_PASS_DEPTH_FAIL: Int\n val STENCIL_PASS_DEPTH_PASS:
Int\n val STENCIL_REF: Int\n val STENCIL_VALUE_MASK: Int\n val STENCIL_WRITEMASK:
Int\n val STENCIL_BACK_FUNC: Int\n val STENCIL_BACK_FAIL: Int\n val
STENCIL_BACK_PASS_DEPTH_FAIL: Int\n val STENCIL_BACK_PASS_DEPTH_PASS: Int\n val
STENCIL_BACK_REF: Int\n val STENCIL_BACK_VALUE_MASK: Int\n val
STENCIL_BACK_WRITEMASK: Int\n val VIEWPORT: Int\n val SCISSOR_BOX: Int\n val
COLOR_CLEAR_VALUE: Int\n val COLOR_WRITEMASK: Int\n val UNPACK_ALIGNMENT: Int\n
val PACK_ALIGNMENT: Int\n val MAX_TEXTURE_SIZE: Int\n val MAX_VIEWPORT_DIMS: Int\n
val SUBPIXEL_BITS: Int\n val RED_BITS: Int\n val GREEN_BITS: Int\n val BLUE_BITS: Int\n
val ALPHA_BITS: Int\n val DEPTH_BITS: Int\n val STENCIL_BITS: Int\n val
POLYGON_OFFSET_UNITS: Int\n val POLYGON_OFFSET_FACTOR: Int\n val
TEXTURE_BINDING_2D: Int\n val SAMPLE_BUFFERS: Int\n val SAMPLES: Int\n val
SAMPLE_COVERAGE_VALUE: Int\n val SAMPLE_COVERAGE_INVERT: Int\n val
COMPRESSED_TEXTURE_FORMATS: Int\n val DONT_CARE: Int\n
val FASTEST: Int\n val NICEST: Int\n val GENERATE_MIPMAP_HINT: Int\n val BYTE: Int\n
val UNSIGNED_BYTE: Int\n val SHORT: Int\n val UNSIGNED_SHORT: Int\n val INT: Int\n
val UNSIGNED_INT: Int\n val FLOAT: Int\n val DEPTH_COMPONENT: Int\n val ALPHA: Int\n
val RGB: Int\n val RGBA: Int\n val LUMINANCE: Int\n val LUMINANCE_ALPHA: Int\n val
UNSIGNED_SHORT_4_4_4_4: Int\n val UNSIGNED_SHORT_5_5_5_1: Int\n val

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UNSIGNED\_SHORT\_5\_6\_5: Int\n     val FRAGMENT\_SHADER: Int\n     val VERTEX\_SHADER: Int\n  
 val MAX\_VERTEX\_ATTRIBS: Int\n     val MAX\_VERTEX\_UNIFORM\_VECTORS: Int\n     val  
 MAX\_VARYING\_VECTORS: Int\n     val MAX\_COMBINED\_TEXTURE\_IMAGE\_UNITS: Int\n     val  
 MAX\_VERTEX\_TEXTURE\_IMAGE\_UNITS: Int\n     val MAX\_TEXTURE\_IMAGE\_UNITS: Int\n     val  
 MAX\_FRAGMENT\_UNIFORM\_VECTORS: Int\n     val SHADER\_TYPE: Int\n     val DELETE\_STATUS:  
 Int\n  
    val LINK\_STATUS: Int\n     val VALIDATE\_STATUS: Int\n     val ATTACHED\_SHADERS: Int\n  
 val ACTIVE\_UNIFORMS: Int\n     val ACTIVE\_ATTRIBUTES: Int\n     val  
 SHADING\_LANGUAGE\_VERSION: Int\n     val CURRENT\_PROGRAM: Int\n     val NEVER: Int\n     val  
 LESS: Int\n     val EQUAL: Int\n     val LEQUAL: Int\n     val GREATER: Int\n     val NOTEQUAL: Int\n  
    val GEQUAL: Int\n     val ALWAYS: Int\n     val KEEP: Int\n     val REPLACE: Int\n     val INCR: Int\n  
    val DECR: Int\n     val INVERT: Int\n     val INCR\_WRAP: Int\n     val DECR\_WRAP: Int\n     val  
 VENDOR: Int\n     val RENDERER: Int\n     val VERSION: Int\n     val NEAREST: Int\n     val LINEAR:  
 Int\n     val NEAREST\_MIPMAP\_NEAREST: Int\n     val LINEAR\_MIPMAP\_NEAREST: Int\n     val  
 NEAREST\_MIPMAP\_LINEAR: Int\n     val LINEAR\_MIPMAP\_LINEAR: Int\n     val  
 TEXTURE\_MAG\_FILTER: Int\n     val TEXTURE\_MIN\_FILTER: Int\n     val TEXTURE\_WRAP\_S:  
 Int\n     val TEXTURE\_WRAP\_T: Int\n     val TEXTURE\_2D: Int\n     val TEXTURE: Int\n     val  
 TEXTURE\_CUBE\_MAP: Int\n     val TEXTURE\_BINDING\_CUBE\_MAP: Int\n     val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_X: Int\n     val TEXTURE\_CUBE\_MAP\_NEGATIVE\_X: Int\n     val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_Y: Int\n     val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Y: Int\n     val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_Z: Int\n     val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Z: Int\n     val  
 MAX\_CUBE\_MAP\_TEXTURE\_SIZE: Int\n     val TEXTURE0: Int\n     val TEXTURE1: Int\n     val  
 TEXTURE2: Int\n     val TEXTURE3: Int\n     val TEXTURE4: Int\n     val TEXTURE5: Int\n     val  
 TEXTURE6: Int\n     val TEXTURE7: Int\n     val TEXTURE8: Int\n     val TEXTURE9: Int\n     val  
 TEXTURE10: Int\n     val TEXTURE11: Int\n     val TEXTURE12: Int\n     val TEXTURE13: Int\n     val  
 TEXTURE14: Int\n     val TEXTURE15: Int\n     val TEXTURE16: Int\n     val TEXTURE17: Int\n  
    val TEXTURE18: Int\n     val TEXTURE19: Int\n     val TEXTURE20: Int\n     val TEXTURE21: Int\n  
    val TEXTURE22: Int\n     val TEXTURE23: Int\n     val TEXTURE24: Int\n     val TEXTURE25: Int\n  
    val TEXTURE26: Int\n     val TEXTURE27: Int\n     val TEXTURE28: Int\n     val TEXTURE29: Int\n  
    val TEXTURE30: Int\n     val TEXTURE31: Int\n     val ACTIVE\_TEXTURE: Int\n     val REPEAT: Int\n  
    val CLAMP\_TO\_EDGE: Int\n     val MIRRORED\_REPEAT: Int\n     val FLOAT\_VEC2: Int\n     val  
 FLOAT\_VEC3: Int\n     val FLOAT\_VEC4: Int\n     val INT\_VEC2: Int\n     val INT\_VEC3: Int\n     val  
 INT\_VEC4: Int\n     val BOOL: Int\n     val BOOL\_VEC2: Int\n     val BOOL\_VEC3: Int\n     val  
 BOOL\_VEC4: Int\n     val FLOAT\_MAT2: Int\n     val FLOAT\_MAT3: Int\n     val FLOAT\_MAT4: Int\n  
    val SAMPLER\_2D: Int\n     val SAMPLER\_CUBE: Int\n     val VERTEX\_ATTRIB\_ARRAY\_ENABLED:  
 Int\n     val VERTEX\_ATTRIB\_ARRAY\_SIZE:  
 Int\n     val VERTEX\_ATTRIB\_ARRAY\_STRIDE: Int\n     val VERTEX\_ATTRIB\_ARRAY\_TYPE: Int\n  
    val VERTEX\_ATTRIB\_ARRAY\_NORMALIZED: Int\n     val VERTEX\_ATTRIB\_ARRAY\_POINTER: Int\n  
    val VERTEX\_ATTRIB\_ARRAY\_BUFFER\_BINDING: Int\n     val  
 IMPLEMENTATION\_COLOR\_READ\_TYPE: Int\n     val IMPLEMENTATION\_COLOR\_READ\_FORMAT:  
 Int\n     val COMPILE\_STATUS: Int\n     val LOW\_FLOAT: Int\n     val MEDIUM\_FLOAT: Int\n     val  
 HIGH\_FLOAT: Int\n     val LOW\_INT: Int\n     val MEDIUM\_INT: Int\n     val HIGH\_INT: Int\n     val  
 FRAMEBUFFER: Int\n     val RENDERBUFFER: Int\n     val RGBA4: Int\n     val RGB5\_A1: Int\n     val  
 RGB565: Int\n     val DEPTH\_COMPONENT16: Int\n     val STENCIL\_INDEX: Int\n     val  
 STENCIL\_INDEX8: Int\n     val DEPTH\_STENCIL: Int\n     val RENDERBUFFER\_WIDTH: Int\n     val  
 RENDERBUFFER\_HEIGHT: Int\n     val RENDERBUFFER\_INTERNAL\_FORMAT: Int\n     val  
 RENDERBUFFER\_RED\_SIZE: Int\n

```

    val RENDERBUFFER_GREEN_SIZE: Int
    val RENDERBUFFER_BLUE_SIZE: Int
    val RENDERBUFFER_ALPHA_SIZE: Int
    val RENDERBUFFER_DEPTH_SIZE: Int
    val RENDERBUFFER_STENCIL_SIZE: Int
    val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int
    val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int
    val FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int
    val FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int
    val COLOR_ATTACHMENT0: Int
    val DEPTH_ATTACHMENT: Int
    val STENCIL_ATTACHMENT: Int
    val DEPTH_STENCIL_ATTACHMENT: Int
    val NONE: Int
    val FRAMEBUFFER_COMPLETE: Int
    val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int
    val FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int
    val FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int
    val FRAMEBUFFER_UNSUPPORTED: Int
    val FRAMEBUFFER_BINDING: Int
    val RENDERBUFFER_BINDING: Int
    val MAX_RENDERBUFFER_SIZE: Int
    val INVALID_FRAMEBUFFER_OPERATION: Int
    val UNPACK_FLIP_Y_WEBGL: Int
    val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int
    val CONTEXT_LOST_WEBGL: Int
    val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int
    val BROWSER_DEFAULT_WEBGL: Int
}

/** Exposes the JavaScript [WebGLRenderingContext](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderingContext) to Kotlin
 * public external abstract class WebGLRenderingContext : WebGLRenderingContextBase, RenderingContext {
 * companion object {
 *     val DEPTH_BUFFER_BIT: Int
 *     val STENCIL_BUFFER_BIT: Int
 *     val COLOR_BUFFER_BIT: Int
 *     val POINTS: Int
 *     val LINES: Int
 *     val LINE_LOOP: Int
 *     val LINE_STRIP: Int
 *     val TRIANGLES: Int
 *     val TRIANGLE_STRIP: Int
 *     val TRIANGLE_FAN: Int
 *     val ZERO: Int
 *     val ONE: Int
 *     val SRC_COLOR: Int
 *     val ONE_MINUS_SRC_COLOR: Int
 *     val SRC_ALPHA: Int
 *     val ONE_MINUS_SRC_ALPHA: Int
 *     val DST_ALPHA: Int
 *     val ONE_MINUS_DST_ALPHA: Int
 *     val DST_COLOR: Int
 *     val ONE_MINUS_DST_COLOR: Int
 *     val SRC_ALPHA_SATURATE: Int
 *     val FUNC_ADD: Int
 *     val BLEND_EQUATION: Int
 *     val BLEND_EQUATION_RGB: Int
 *     val BLEND_EQUATION_ALPHA: Int
 *     val FUNC_SUBTRACT: Int
 *     val FUNC_REVERSE_SUBTRACT: Int
 *     val BLEND_DST_RGB: Int
 *     val BLEND_SRC_RGB: Int
 *     val BLEND_DST_ALPHA: Int
 *     val BLEND_SRC_ALPHA: Int
 *     val CONSTANT_COLOR: Int
 *     val ONE_MINUS_CONSTANT_COLOR: Int
 *     val CONSTANT_ALPHA: Int
 *     val ONE_MINUS_CONSTANT_ALPHA: Int
 *     val BLEND_COLOR: Int
 *     val ARRAY_BUFFER: Int
 *     val ELEMENT_ARRAY_BUFFER: Int
 *     val ARRAY_BUFFER_BINDING: Int
 *     val ELEMENT_ARRAY_BUFFER_BINDING: Int
 *     val STREAM_DRAW: Int
 *     val STATIC_DRAW: Int
 *     val DYNAMIC_DRAW: Int
 *     val BUFFER_SIZE: Int
 *     val BUFFER_USAGE: Int
 *     val CURRENT_VERTEX_ATTRIB: Int
 *     val FRONT: Int
 *     val BACK: Int
 *     val FRONT_AND_BACK: Int
 *     val CULL_FACE: Int
 *     val BLEND: Int
 *     val DITHER: Int
 *     val STENCIL_TEST: Int
 *     val DEPTH_TEST: Int
 *     val SCISSOR_TEST: Int
 *     val POLYGON_OFFSET_FILL: Int
 *     val SAMPLE_ALPHA_TO_COVERAGE: Int
 *     val SAMPLE_COVERAGE: Int
 *     val NO_ERROR: Int
 *     val INVALID_ENUM: Int
 *     val INVALID_VALUE: Int
 *     val INVALID_OPERATION: Int
 *     val OUT_OF_MEMORY: Int
 *     val CW: Int
 *     val CCW: Int
 *     val LINE_WIDTH: Int
 *     val ALIASED_POINT_SIZE_RANGE: Int
 *     val ALIASED_LINE_WIDTH_RANGE: Int
 *     val CULL_FACE_MODE: Int
 *     val FRONT_FACE: Int
 *     val DEPTH_RANGE: Int
 *     val DEPTH_WRITEMASK: Int
 *     val DEPTH_CLEAR_VALUE: Int
 *     val DEPTH_FUNC: Int
 *     val STENCIL_CLEAR_VALUE: Int
 *     val STENCIL_FUNC: Int
 *     val STENCIL_FAIL: Int
 *     val STENCIL_PASS_DEPTH_FAIL: Int
 *     val STENCIL_PASS_DEPTH_PASS: Int
 *     val STENCIL_REF: Int
 *     val STENCIL_VALUE_MASK: Int
 *     val STENCIL_WRITEMASK: Int
 *     val STENCIL_BACK_FUNC: Int
 *     val STENCIL_BACK_FAIL: Int
 *     val STENCIL_BACK_PASS_DEPTH_FAIL: Int
 *     val STENCIL_BACK_PASS_DEPTH_PASS: Int

```

STENCIL\_BACK\_REF: Int\n val STENCIL\_BACK\_VALUE\_MASK: Int\n val  
 STENCIL\_BACK\_WRITEMASK: Int\n val VIEWPORT: Int\n val SCISSOR\_BOX: Int\n val  
 COLOR\_CLEAR\_VALUE: Int\n val COLOR\_WRITEMASK: Int\n val UNPACK\_ALIGNMENT: Int\n  
 val PACK\_ALIGNMENT: Int\n val MAX\_TEXTURE\_SIZE: Int\n val MAX\_VIEWPORT\_DIMS: Int\n  
 val SUBPIXEL\_BITS: Int\n val RED\_BITS: Int\n val GREEN\_BITS: Int\n val BLUE\_BITS: Int\n  
 val ALPHA\_BITS: Int\n val DEPTH\_BITS: Int\n val STENCIL\_BITS: Int\n val  
 POLYGON\_OFFSET\_UNITS: Int\n val POLYGON\_OFFSET\_FACTOR:  
 Int\n val TEXTURE\_BINDING\_2D: Int\n val SAMPLE\_BUFFERS: Int\n val SAMPLES: Int\n  
 val SAMPLE\_COVERAGE\_VALUE: Int\n val SAMPLE\_COVERAGE\_INVERT: Int\n val  
 COMPRESSED\_TEXTURE\_FORMATS: Int\n val DONT\_CARE: Int\n val FASTEST: Int\n val  
 NICEST: Int\n val GENERATE\_MIPMAP\_HINT: Int\n val BYTE: Int\n val UNSIGNED\_BYTE:  
 Int\n val SHORT: Int\n val UNSIGNED\_SHORT: Int\n val INT: Int\n val UNSIGNED\_INT: Int\n  
 val FLOAT: Int\n val DEPTH\_COMPONENT: Int\n val ALPHA: Int\n val RGB: Int\n val  
 RGBA: Int\n val LUMINANCE: Int\n val LUMINANCE\_ALPHA: Int\n val  
 UNSIGNED\_SHORT\_4\_4\_4\_4: Int\n val UNSIGNED\_SHORT\_5\_5\_5\_1: Int\n val  
 UNSIGNED\_SHORT\_5\_6\_5: Int\n val FRAGMENT\_SHADER: Int\n val VERTEX\_SHADER: Int\n  
 val MAX\_VERTEX\_ATTRIBS: Int\n val MAX\_VERTEX\_UNIFORM\_VECTORS: Int\n val  
 MAX\_VARYING\_VECTORS:  
 Int\n val MAX\_COMBINED\_TEXTURE\_IMAGE\_UNITS: Int\n val  
 MAX\_VERTEX\_TEXTURE\_IMAGE\_UNITS: Int\n val MAX\_TEXTURE\_IMAGE\_UNITS: Int\n val  
 MAX\_FRAGMENT\_UNIFORM\_VECTORS: Int\n val SHADER\_TYPE: Int\n val DELETE\_STATUS:  
 Int\n val LINK\_STATUS: Int\n val VALIDATE\_STATUS: Int\n val ATTACHED\_SHADERS: Int\n  
 val ACTIVE\_UNIFORMS: Int\n val ACTIVE\_ATTRIBUTES: Int\n val  
 SHADING\_LANGUAGE\_VERSION: Int\n val CURRENT\_PROGRAM: Int\n val NEVER: Int\n val  
 LESS: Int\n val EQUAL: Int\n val LEQUAL: Int\n val GREATER: Int\n val NOTEQUAL: Int\n  
 val GEQUAL: Int\n val ALWAYS: Int\n val KEEP: Int\n val REPLACE: Int\n val INCR: Int\n  
 val DECR: Int\n val INVERT: Int\n val INCR\_WRAP: Int\n val DECR\_WRAP: Int\n val  
 VENDOR: Int\n val RENDERER: Int\n val VERSION: Int\n val NEAREST: Int\n  
 val LINEAR: Int\n val NEAREST\_MIPMAP\_NEAREST: Int\n val LINEAR\_MIPMAP\_NEAREST:  
 Int\n val NEAREST\_MIPMAP\_LINEAR: Int\n val LINEAR\_MIPMAP\_LINEAR: Int\n val  
 TEXTURE\_MAG\_FILTER: Int\n val TEXTURE\_MIN\_FILTER: Int\n val TEXTURE\_WRAP\_S: Int\n  
 val TEXTURE\_WRAP\_T: Int\n val TEXTURE\_2D: Int\n val TEXTURE: Int\n val  
 TEXTURE\_CUBE\_MAP: Int\n val TEXTURE\_BINDING\_CUBE\_MAP: Int\n val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_X: Int\n val TEXTURE\_CUBE\_MAP\_NEGATIVE\_X: Int\n val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_Y: Int\n val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Y: Int\n val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_Z: Int\n val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Z: Int\n val  
 MAX\_CUBE\_MAP\_TEXTURE\_SIZE: Int\n val TEXTURE0: Int\n val TEXTURE1: Int\n val  
 TEXTURE2: Int\n val TEXTURE3: Int\n val TEXTURE4: Int\n val TEXTURE5: Int\n val  
 TEXTURE6: Int\n val TEXTURE7: Int\n  
 val TEXTURE8: Int\n val TEXTURE9: Int\n val TEXTURE10: Int\n val TEXTURE11: Int\n val  
 TEXTURE12: Int\n val TEXTURE13: Int\n val TEXTURE14: Int\n val TEXTURE15: Int\n val  
 TEXTURE16: Int\n val TEXTURE17: Int\n val TEXTURE18: Int\n val TEXTURE19: Int\n val  
 TEXTURE20: Int\n val TEXTURE21: Int\n val TEXTURE22: Int\n val TEXTURE23: Int\n val  
 TEXTURE24: Int\n val TEXTURE25: Int\n val TEXTURE26: Int\n val TEXTURE27: Int\n val  
 TEXTURE28: Int\n val TEXTURE29: Int\n val TEXTURE30: Int\n val TEXTURE31: Int\n val  
 ACTIVE\_TEXTURE: Int\n val REPEAT: Int\n val CLAMP\_TO\_EDGE: Int\n val  
 MIRRORED\_REPEAT: Int\n val FLOAT\_VEC2: Int\n val FLOAT\_VEC3: Int\n val FLOAT\_VEC4:  
 Int\n val INT\_VEC2: Int\n val INT\_VEC3: Int\n val INT\_VEC4: Int\n val BOOL: Int\n val

BOOL\_VEC2:

Int\n val BOOL\_VEC3: Int\n val BOOL\_VEC4: Int\n val FLOAT\_MAT2: Int\n val  
FLOAT\_MAT3: Int\n val FLOAT\_MAT4: Int\n val SAMPLER\_2D: Int\n val SAMPLER\_CUBE:  
Int\n val VERTEX\_ATTRIB\_ARRAY\_ENABLED: Int\n val VERTEX\_ATTRIB\_ARRAY\_SIZE: Int\n  
val VERTEX\_ATTRIB\_ARRAY\_STRIDE: Int\n val VERTEX\_ATTRIB\_ARRAY\_TYPE: Int\n val  
VERTEX\_ATTRIB\_ARRAY\_NORMALIZED: Int\n val VERTEX\_ATTRIB\_ARRAY\_POINTER: Int\n  
val VERTEX\_ATTRIB\_ARRAY\_BUFFER\_BINDING: Int\n val  
IMPLEMENTATION\_COLOR\_READ\_TYPE: Int\n val IMPLEMENTATION\_COLOR\_READ\_FORMAT:  
Int\n val COMPILE\_STATUS: Int\n val LOW\_FLOAT: Int\n val MEDIUM\_FLOAT: Int\n val  
HIGH\_FLOAT: Int\n val LOW\_INT: Int\n val MEDIUM\_INT: Int\n val HIGH\_INT: Int\n val  
FRAMEBUFFER: Int\n val RENDERBUFFER: Int\n val RGBA4: Int\n val RGB5\_A1: Int\n val  
RGB565: Int\n val DEPTH\_COMPONENT16:

Int\n val STENCIL\_INDEX: Int\n val STENCIL\_INDEX8: Int\n val DEPTH\_STENCIL: Int\n  
val RENDERBUFFER\_WIDTH: Int\n val RENDERBUFFER\_HEIGHT: Int\n val  
RENDERBUFFER\_INTERNAL\_FORMAT: Int\n val RENDERBUFFER\_RED\_SIZE: Int\n val  
RENDERBUFFER\_GREEN\_SIZE: Int\n val RENDERBUFFER\_BLUE\_SIZE: Int\n val  
RENDERBUFFER\_ALPHA\_SIZE: Int\n val RENDERBUFFER\_DEPTH\_SIZE: Int\n val  
RENDERBUFFER\_STENCIL\_SIZE: Int\n val FRAMEBUFFER\_ATTACHMENT\_OBJECT\_TYPE: Int\n  
val FRAMEBUFFER\_ATTACHMENT\_OBJECT\_NAME: Int\n val  
FRAMEBUFFER\_ATTACHMENT\_TEXTURE\_LEVEL: Int\n val  
FRAMEBUFFER\_ATTACHMENT\_TEXTURE\_CUBE\_MAP\_FACE: Int\n val COLOR\_ATTACHMENT0:  
Int\n val DEPTH\_ATTACHMENT: Int\n val STENCIL\_ATTACHMENT: Int\n val  
DEPTH\_STENCIL\_ATTACHMENT: Int\n val NONE: Int\n val FRAMEBUFFER\_COMPLETE: Int\n  
val FRAMEBUFFER\_INCOMPLETE\_ATTACHMENT: Int\n val  
FRAMEBUFFER\_INCOMPLETE\_MISSING\_ATTACHMENT:

Int\n val FRAMEBUFFER\_INCOMPLETE\_DIMENSIONS: Int\n val  
FRAMEBUFFER\_UNSUPPORTED: Int\n val FRAMEBUFFER\_BINDING: Int\n val  
RENDERBUFFER\_BINDING: Int\n val MAX\_RENDERBUFFER\_SIZE: Int\n val  
INVALID\_FRAMEBUFFER\_OPERATION: Int\n val UNPACK\_FLIP\_Y\_WEBGL: Int\n val  
UNPACK\_PREMULTIPLY\_ALPHA\_WEBGL: Int\n val CONTEXT\_LOST\_WEBGL: Int\n val  
UNPACK\_COLORSPACE\_CONVERSION\_WEBGL: Int\n val BROWSER\_DEFAULT\_WEBGL: Int\n  
}\n}\n\n/\*\*\n \* Exposes the JavaScript

[WebGLContextEvent](<https://developer.mozilla.org/en/docs/Web/API/WebGLContextEvent>) to Kotlin\n  
\*\n\npublic external open class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit =  
definedExternally) : Event {\n open val statusMessage: String\n\n companion object {\n val NONE: Short\n  
val CAPTURING\_PHASE: Short\n val AT\_TARGET: Short\n val BUBBLING\_PHASE: Short\n  
}\n}\n\npublic external interface WebGLContextEventInit

: EventInit {\n var statusMessage: String? /\* = \"\" \*/\n get() = definedExternally\n set(value) =  
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun WebGLContextEventInit(statusMessage:  
String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):  
WebGLContextEventInit {\n val o = js(\"({})\")\n o[\"statusMessage\"] = statusMessage\n o[\"bubbles\"] =  
bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/\*\*\n \* Exposes the  
JavaScript [ArrayBuffer](<https://developer.mozilla.org/en/docs/Web/API/ArrayBuffer>) to Kotlin\n  
\*\n\npublic  
external open class ArrayBuffer(length: Int) : BufferDataSource {\n open val byteLength: Int\n fun slice(begin:  
Int, end: Int = definedExternally): ArrayBuffer\n\n companion object {\n fun isView(value: Any?): Boolean\n  
}\n}\n\n/\*\*\n \* Exposes the JavaScript

[ArrayBufferView](<https://developer.mozilla.org/en/docs/Web/API/ArrayBufferView>)



```

asDynamic()[index])\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint16Array.set(index: Int, value:
Short) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Int32Array](https://developer.mozilla.org/en/docs/Web/API/Int32Array) to Kotlin\n *\npublic external open class
Int32Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Int32Array)\n
constructor(array: Array<Int>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int
= definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset: Int\n
override val byteLength: Int\n  fun set(array: Int32Array, offset: Int = definedExternally)\n  fun set(array:
Array<Int>, offset: Int = definedExternally)\n
  fun subarray(start: Int, end: Int): Int32Array\n\n  companion object {\n    val BYTES_PER_ELEMENT: Int\n
  }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.get(index: Int): Int =
asDynamic()[index])\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.set(index: Int, value: Int)
{ asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint32Array](https://developer.mozilla.org/en/docs/Web/API/Uint32Array) to Kotlin\n *\npublic external open
class Uint32Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Uint32Array)\n
constructor(array: Array<Int>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int
= definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset: Int\n
override val byteLength: Int\n  fun set(array: Uint32Array, offset: Int = definedExternally)\n  fun set(array:
Array<Int>,
offset: Int = definedExternally)\n  fun subarray(start: Int, end: Int): Uint32Array\n\n  companion object {\n
val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
Uint32Array.get(index: Int): Int = asDynamic()[index])\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
Uint32Array.set(index: Int, value: Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Float32Array](https://developer.mozilla.org/en/docs/Web/API/Float32Array) to Kotlin\n *\npublic external open
class Float32Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Float32Array)\n
constructor(array: Array<Float>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset:
Int\n  override val byteLength: Int\n  fun set(array: Float32Array, offset: Int = definedExternally)\n
fun set(array: Array<Float>, offset: Int = definedExternally)\n  fun subarray(start: Int, end: Int):
Float32Array\n\n  companion object {\n    val BYTES_PER_ELEMENT: Int\n
  }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Float32Array.get(index: Int): Float =
asDynamic()[index])\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Float32Array.set(index: Int, value:
Float) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Float64Array](https://developer.mozilla.org/en/docs/Web/API/Float64Array) to Kotlin\n *\npublic external open
class Float64Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Float64Array)\n
constructor(array: Array<Double>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset:
Int\n  override val byteLength: Int\n  fun set(array: Float64Array,
offset: Int = definedExternally)\n  fun set(array: Array<Double>, offset: Int = definedExternally)\n  fun
subarray(start: Int, end: Int): Float64Array\n\n  companion object {\n    val BYTES_PER_ELEMENT: Int\n
  }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.get(index: Int): Double =
asDynamic()[index])\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.set(index: Int, value:
Double) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[DataView](https://developer.mozilla.org/en/docs/Web/API/DataView) to Kotlin\n *\npublic external open class
DataView(buffer: ArrayBuffer, byteOffset: Int = definedExternally, byteLength: Int = definedExternally) :
ArrayBufferView {\n  override val buffer: ArrayBuffer\n  override val byteOffset: Int\n  override val
byteLength: Int\n  fun getInt8(byteOffset: Int): Byte\n  fun getUint8(byteOffset: Int): Byte\n  fun
getInt16(byteOffset: Int, littleEndian: Boolean

```

```

= definedExternally): Short\n fun getUint16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\n
fun getInt32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int\n fun getUint32(byteOffset: Int,
littleEndian: Boolean = definedExternally): Int\n fun getFloat32(byteOffset: Int, littleEndian: Boolean =
definedExternally): Float\n fun getFloat64(byteOffset: Int, littleEndian: Boolean = definedExternally): Double\n
fun setInt8(byteOffset: Int, value: Byte)\n fun setUint8(byteOffset: Int, value: Byte)\n fun setInt16(byteOffset:
Int, value: Short, littleEndian: Boolean = definedExternally)\n fun setUint16(byteOffset: Int, value: Short,
littleEndian: Boolean = definedExternally)\n fun setInt32(byteOffset: Int, value: Int, littleEndian: Boolean =
definedExternally)\n fun setUint32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally)\n fun
setFloat32(byteOffset: Int, value: Float, littleEndian: Boolean = definedExternally)\n
fun setFloat64(byteOffset: Int, value: Double, littleEndian: Boolean = definedExternally)\n}\n\npublic external
interface BufferDataSource\n\npublic external interface TexImageSource", "/*\n * Copyright 2010-2019 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED,
DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.clipboard\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport
org.w3c.xhr.*\n\npublic external interface ClipboardEventInit : EventInit {\n var clipboardData: DataTransfer? /*
= null */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ClipboardEventInit(clipboardData:
DataTransfer? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
ClipboardEventInit {\n val o = js(\{"{ }\"})\n o["clipboardData"] = clipboardData\n o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[ClipboardEvent](https://developer.mozilla.org/en/docs/Web/API/ClipboardEvent) to Kotlin\n */\n\npublic external
open class ClipboardEvent(type: String, eventInitDict: ClipboardEventInit = definedExternally) : Event {\n open
val clipboardData: DataTransfer?\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET:
Short\n val BUBBLING_PHASE: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[Clipboard](https://developer.mozilla.org/en/docs/Web/API/Clipboard) to Kotlin\n */\n\npublic external abstract class
Clipboard : EventTarget {\n fun read(): Promise<DataTransfer>\n fun readText(): Promise<String>\n fun
write(data: DataTransfer): Promise<Unit>\n fun writeText(data: String): Promise<Unit>\n}\n\npublic external
interface ClipboardPermissionDescriptor {\n var allowWithoutGesture: Boolean? /* = false */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ClipboardPermissionDescriptor(allowWithoutGesture: Boolean? = false): ClipboardPermissionDescriptor {\n val
o = js(\{"{ }\"})\n o["allowWithoutGesture"] = allowWithoutGesture\n return o\n}", "/*\n * Copyright 2010-
2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED,
DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.css\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external abstract class
MediaList : ItemArrayLike<String> {\n open var mediaText: String\n fun appendMedium(medium: String)\n
fun deleteMedium(medium: String)\n override fun item(index: Int):

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String? \n \n @kotlin.internal.InlineOnly \n public inline operator fun MediaList.get(index: Int): String? =
asDynamic()[index] \n \n /** \n
 * Exposes the JavaScript [StyleSheet](https://developer.mozilla.org/en/docs/Web/API/StyleSheet) to Kotlin \n
 * \n public external abstract class StyleSheet { \n
open val type: String \n
open val href: String? \n
open val
ownerNode: UnionElementOrProcessingInstruction? \n
open val parentStyleSheet: StyleSheet? \n
open val title:
String? \n
open val media: MediaList \n
open var disabled: Boolean \n \n \n /** \n
 * Exposes the JavaScript
[CSSStyleSheet](https://developer.mozilla.org/en/docs/Web/API/CSSStyleSheet) to Kotlin \n
 * \n public external
abstract class CSSStyleSheet : StyleSheet { \n
open val ownerRule: CSSRule? \n
open val cssRules:
CSSRuleList \n
fun insertRule(rule: String, index: Int): Int \n
fun deleteRule(index: Int) \n \n \n /** \n
 * Exposes the
JavaScript [StyleSheetList](https://developer.mozilla.org/en/docs/Web/API/StyleSheetList) to Kotlin \n
 * \n public
external abstract class StyleSheetList : ItemArrayLike<StyleSheet> { \n
override fun item(index:
Int): StyleSheet? \n \n \n @kotlin.internal.InlineOnly \n
public inline operator fun StyleSheetList.get(index: Int):
StyleSheet? = asDynamic()[index] \n \n /** \n
 * Exposes the JavaScript
[LinkStyle](https://developer.mozilla.org/en/docs/Web/API/LinkStyle) to Kotlin \n
 * \n public external interface
LinkStyle { \n
val sheet: StyleSheet? \n
get() = definedExternally \n \n \n /** \n
 * Exposes the JavaScript
[CSSRuleList](https://developer.mozilla.org/en/docs/Web/API/CSSRuleList) to Kotlin \n
 * \n public external abstract
class CSSRuleList : ItemArrayLike<CSSRule> { \n
override fun item(index: Int):
CSSRule? \n \n \n @kotlin.internal.InlineOnly \n
public inline operator fun CSSRuleList.get(index: Int): CSSRule? =
asDynamic()[index] \n \n /** \n
 * Exposes the JavaScript
[CSSRule](https://developer.mozilla.org/en/docs/Web/API/CSSRule) to Kotlin \n
 * \n public external abstract class
CSSRule { \n
open val type: Short \n
open var cssText: String \n
open val parentRule: CSSRule? \n
open val
parentStyleSheet:
CSSStyleSheet? \n \n
companion object { \n
val STYLE_RULE: Short \n
val CHARSET_RULE: Short \n
val IMPORT_RULE: Short \n
val MEDIA_RULE: Short \n
val FONT_FACE_RULE: Short \n
val
PAGE_RULE: Short \n
val MARGIN_RULE: Short \n
val NAMESPACE_RULE: Short \n
} \n \n \n /** \n
 * Exposes the JavaScript
[CSSStyleRule](https://developer.mozilla.org/en/docs/Web/API/CSSStyleRule) to Kotlin \n
 * \n public external abstract class
CSSStyleRule : CSSRule { \n
open var selectorText: String \n
open val style:
CSSStyleDeclaration \n \n
companion object { \n
val STYLE_RULE: Short \n
val CHARSET_RULE:
Short \n
val IMPORT_RULE: Short \n
val MEDIA_RULE: Short \n
val FONT_FACE_RULE: Short \n
val PAGE_RULE: Short \n
val MARGIN_RULE: Short \n
val NAMESPACE_RULE: Short \n
} \n \n \n public external abstract class CSSImportRule : CSSRule { \n
open val href: String \n
open val media:
MediaList \n
open val
styleSheet: CSSStyleSheet \n \n
companion object { \n
val STYLE_RULE: Short \n
val CHARSET_RULE:
Short \n
val IMPORT_RULE: Short \n
val MEDIA_RULE: Short \n
val FONT_FACE_RULE: Short \n
val PAGE_RULE: Short \n
val MARGIN_RULE: Short \n
val NAMESPACE_RULE: Short \n
} \n \n \n /** \n
 * Exposes the JavaScript
[CSSGroupingRule](https://developer.mozilla.org/en/docs/Web/API/CSSGroupingRule) to Kotlin \n
 * \n public
external abstract class CSSGroupingRule : CSSRule { \n
open val cssRules: CSSRuleList \n
fun insertRule(rule:
String, index: Int): Int \n
fun deleteRule(index: Int) \n \n
companion object { \n
val STYLE_RULE: Short \n
val CHARSET_RULE: Short \n
val IMPORT_RULE: Short \n
val MEDIA_RULE: Short \n
val
FONT_FACE_RULE: Short \n
val PAGE_RULE: Short \n
val MARGIN_RULE: Short \n
val
NAMESPACE_RULE: Short \n
} \n \n \n /** \n
 * Exposes the JavaScript
[CSSMediaRule](https://developer.mozilla.org/en/docs/Web/API/CSSMediaRule)
to Kotlin \n
 * \n public external abstract class CSSMediaRule : CSSGroupingRule { \n
open val media:
MediaList \n \n
companion object { \n
val STYLE_RULE: Short \n
val CHARSET_RULE: Short \n
val IMPORT_RULE: Short \n
val MEDIA_RULE: Short \n
val FONT_FACE_RULE: Short \n
val PAGE_RULE: Short \n
val MARGIN_RULE: Short \n
val NAMESPACE_RULE: Short \n
} \n \n \n /** \n
 * Exposes the JavaScript
[CSSPageRule](https://developer.mozilla.org/en/docs/Web/API/CSSPageRule) to Kotlin \n

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*\npublic external abstract class CSSPageRule : CSSGroupingRule {\n  open var selectorText: String\n  open val style: CSSStyleDeclaration\n\n  companion object {\n    val STYLE_RULE: Short\n    val CHARSET_RULE: Short\n    val IMPORT_RULE: Short\n    val MEDIA_RULE: Short\n    val FONT_FACE_RULE: Short\n    val PAGE_RULE: Short\n    val MARGIN_RULE: Short\n    val NAMESPACE_RULE: Short\n  }\n}\n\npublic external abstract class CSSMarginRule : CSSRule {\n  open val name: String\n  open val style: CSSStyleDeclaration\n\n  companion object {\n    val STYLE_RULE: Short\n    val CHARSET_RULE: Short\n    val IMPORT_RULE: Short\n    val MEDIA_RULE: Short\n    val FONT_FACE_RULE: Short\n    val PAGE_RULE: Short\n    val MARGIN_RULE: Short\n    val NAMESPACE_RULE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript [CSSNamespaceRule](https://developer.mozilla.org/en/docs/Web/API/CSSNamespaceRule) to Kotlin\n */\n\npublic external abstract class CSSNamespaceRule : CSSRule {\n  open val namespaceURI: String\n  open val prefix: String\n\n  companion object {\n    val STYLE_RULE: Short\n    val CHARSET_RULE: Short\n    val IMPORT_RULE: Short\n    val MEDIA_RULE: Short\n    val FONT_FACE_RULE: Short\n    val PAGE_RULE: Short\n    val MARGIN_RULE: Short\n    val NAMESPACE_RULE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript [CSSStyleDeclaration](https://developer.mozilla.org/en/docs/Web/API/CSSStyleDeclaration) to Kotlin\n */\n\npublic external abstract class CSSStyleDeclaration : ItemArrayLike<String> {\n  open var cssText: String\n  open val parentRule: CSSRule?\n  open var cssFloat: String\n  open var alignContent: String\n  open var alignItems: String\n  open var alignSelf: String\n  open var animation: String\n  open var animationDelay: String\n  open var animationDirection: String\n  open var animationDuration: String\n  open var animationFillMode: String\n  open var animationIterationCount: String\n  open var animationName: String\n  open var animationPlayState: String\n  open var animationTimingFunction: String\n  open var backfaceVisibility: String\n  open var background: String\n  open var backgroundAttachment: String\n  open var backgroundClip: String\n  open var backgroundColor: String\n  open var backgroundImage: String\n  open var backgroundOrigin: String\n  open var backgroundPosition: String\n  open var backgroundRepeat: String\n  open var backgroundSize: String\n  open var border: String\n  open var borderBottom: String\n  open var borderBottomColor: String\n  open var borderBottomLeftRadius: String\n  open var borderBottomRightRadius: String\n  open var borderBottomStyle: String\n  open var borderBottomWidth: String\n  open var borderCollapse: String\n  open var borderColor: String\n  open var borderImage: String\n  open var borderImageOutset: String\n  open var borderImageRepeat: String\n  open var borderImageSlice: String\n  open var borderImageSource: String\n  open var borderImageWidth: String\n  open var borderLeft: String\n  open var borderLeftColor: String\n  open var borderLeftStyle: String\n  open var borderLeftWidth: String\n  open var borderRadius: String\n  open var borderRight: String\n  open var borderRightColor: String\n  open var borderRightStyle: String\n  open var borderRightWidth: String\n  open var borderSpacing: String\n  open var borderStyle: String\n  open var borderTop: String\n  open var borderTopColor: String\n  open var borderTopLeftRadius: String\n  open var borderTopRightRadius: String\n  open var borderTopStyle: String\n  open var borderTopWidth: String\n  open var borderWidth: String\n  open var bottom: String\n  open var boxDecorationBreak: String\n  open var boxShadow: String\n  open var boxSizing: String\n  open var breakAfter: String\n  open var breakBefore: String\n  open var breakInside: String\n  open var captionSide: String\n  open var clear: String\n  open var clip: String\n  open var color: String\n  open var columnCount: String\n  open var columnFill: String\n  open var columnGap: String\n  open var columnRule: String\n  open var columnRuleColor: String\n  open var columnRuleStyle: String\n  open var columnRuleWidth: String\n  open var columnSpan: String\n  open var columnWidth: String\n  open var columns: String\n  open var content: String\n  open var counterIncrement: String\n  open var counterReset: String\n  open var cursor: String\n  open var direction: String\n  open var display: String\n  open var emptyCells: String\n  open var filter: String\n  open var flex: String\n  open var flexBasis: String\n  open var flexDirection: String\n  open var flexFlow: String\n  open var

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flexGrow: String\n open var flexShrink: String\n open var flexWrap: String\n open var font: String\n open
var fontFamily: String\n open var fontFeatureSettings: String\n open var fontKerning: String\n open var
fontLanguageOverride: String\n open var fontSize: String\n open var fontSizeAdjust: String\n open var
fontStretch: String\n open var fontStyle: String\n open var fontSynthesis: String\n open var fontVariant:
String\n open var fontVariantAlternates: String\n open var fontVariantCaps:
String\n open var fontVariantEastAsian: String\n open var fontVariantLigatures: String\n open var
fontVariantNumeric: String\n open var fontVariantPosition: String\n open var fontWeight: String\n open var
hangingPunctuation: String\n open var height: String\n open var hyphens: String\n open var imageOrientation:
String\n open var imageRendering: String\n open var imageResolution: String\n open var imeMode: String\n
open var justifyContent: String\n open var left: String\n open var letterSpacing: String\n open var lineBreak:
String\n open var lineHeight: String\n open var listStyle: String\n open var listStyleImage: String\n open var
listStylePosition: String\n open var listStyleType: String\n open var margin: String\n open var marginBottom:
String\n open var marginLeft: String\n open var marginRight: String\n open var marginTop: String\n open
var mark: String\n open var markAfter: String\n open
var markBefore: String\n open var marks: String\n open var marqueeDirection: String\n open var
marqueePlayCount: String\n open var marqueeSpeed: String\n open var marqueeStyle: String\n open var
mask: String\n open var maskType: String\n open var maxHeight: String\n open var maxWidth: String\n
open var minHeight: String\n open var minWidth: String\n open var navDown: String\n open var navIndex:
String\n open var navLeft: String\n open var navRight: String\n open var navUp: String\n open var objectFit:
String\n open var objectPosition: String\n open var opacity: String\n open var order: String\n open var
orphans: String\n open var outline: String\n open var outlineColor: String\n open var outlineOffset: String\n
open var outlineStyle: String\n open var outlineWidth: String\n open var overflowWrap: String\n open var
overflowX: String\n open var overflowY: String\n open var padding: String\n open
var paddingBottom: String\n open var paddingLeft: String\n open var paddingRight: String\n open var
paddingTop: String\n open var pageBreakAfter: String\n open var pageBreakBefore: String\n open var
pageBreakInside: String\n open var perspective: String\n open var perspectiveOrigin: String\n open var
phonemes: String\n open var position: String\n open var quotes: String\n open var resize: String\n open var
rest: String\n open var restAfter: String\n open var restBefore: String\n open var right: String\n open var
tabSize: String\n open var tableLayout: String\n open var textAlign: String\n open var textAlignLast: String\n
open var textCombineUpright: String\n open var textDecoration: String\n open var textDecorationColor:
String\n open var textDecorationLine: String\n open var textDecorationStyle: String\n open var textIndent:
String\n open var textJustify: String\n open var textOrientation: String\n
open var textOverflow: String\n open var textShadow: String\n open var textTransform: String\n open var
textUnderlinePosition: String\n open var top: String\n open var transform: String\n open var transformOrigin:
String\n open var transformStyle: String\n open var transition: String\n open var transitionDelay: String\n
open var transitionDuration: String\n open var transitionProperty: String\n open var transitionTimingFunction:
String\n open var unicodeBidi: String\n open var verticalAlign: String\n open var visibility: String\n open
var voiceBalance: String\n open var voiceDuration: String\n open var voicePitch: String\n open var
voicePitchRange: String\n open var voiceRate: String\n open var voiceStress: String\n open var voiceVolume:
String\n open var whiteSpace: String\n open var widows: String\n open var width: String\n open var
wordBreak: String\n open var wordSpacing: String\n open var wordWrap:
String\n open var writingMode: String\n open var zIndex: String\n open var _dashed_attribute: String\n
open var _camel_cased_attribute: String\n open var _webkit_cased_attribute: String\n fun
getPropertyValue(property: String): String\n fun getPropertyPriority(property: String): String\n fun
setProperty(property: String, value: String, priority: String = definedExternally)\n fun setPropertyValue(property:
String, value: String)\n fun setPropertyPriority(property: String, priority: String)\n fun removeProperty(property:
String): String\n override fun item(index: Int): String\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator
fun CSSStyleDeclaration.get(index: Int): String? = asDynamic()[index]\n\npublic external interface

```

```

ElementCSSInlineStyle {\n  val style: CSSStyleDeclaration\n}\n\n/**\n * Exposes the JavaScript
[CSS](https://developer.mozilla.org/en/docs/Web/API/CSS) to Kotlin\n */\npublic external abstract class CSS {\n
companion object

{\n  fun escape(ident: String): String\n }}\n\npublic external interface
UnionElementOrProcessingInstruction", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See
github.com/kotlin/dukat for details\n\npackage org.w3c.dom.events\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[UIEvent](https://developer.mozilla.org/en/docs/Web/API/UIEvent)
to Kotlin\n */\npublic external open class UIEvent(type: String, eventInitDict: UIEventInit = definedExternally) :
Event {\n  open val view: Window?\n  open val detail: Int\n\n  companion object {\n    val NONE: Short\n
val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface UIEventInit : EventInit {\n  var view: Window? /* = null */\n    get() =
definedExternally\n    set(value) = definedExternally\n  var detail: Int? /* = 0 */\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
UIEventInit(view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): UIEventInit {\n  val o = js("{}")\n  o["view"] = view\n  o["detail"] = detail\n
o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n
o["composed"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[FocusEvent](https://developer.mozilla.org/en/docs/Web/API/FocusEvent) to Kotlin\n */\npublic external open class
FocusEvent(type: String, eventInitDict: FocusEventInit = definedExternally) : UIEvent {\n  open val relatedTarget:
EventTarget?\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val
AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface FocusEventInit :
UIEventInit {\n  var relatedTarget: EventTarget? /* = null */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun FocusEventInit(relatedTarget: EventTarget?
= null, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): FocusEventInit {\n  val o = js("{}")\n  o["relatedTarget"] = relatedTarget\n  o["view"]
= view\n  o["detail"] = detail\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"]
= composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[MouseEvent](https://developer.mozilla.org/en/docs/Web/API/MouseEvent) to Kotlin\n */\npublic external open
class MouseEvent(type: String, eventInitDict: MouseEventInit = definedExternally) : UIEvent,
UnionElementOrMouseEvent {\n  open val screenX: Int\n  open val screenY: Int\n  open val clientX: Int\n
open val clientY: Int\n  open val ctrlKey: Boolean\n  open val shiftKey: Boolean\n  open val altKey: Boolean\n
open val metaKey: Boolean\n  open val button: Short\n  open val buttons: Short\n  open val relatedTarget:
EventTarget?\n  open val region: String?\n  open val pageX: Double\n  open val pageY: Double\n  open val x:
Double\n  open val y: Double\n  open val offsetX: Double\n  open val offsetY: Double\n  fun
getModifierState(keyArg: String): Boolean\n\n  companion
object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface MouseEventInit : EventModifierInit {\n  var
screenX: Int? /* = 0 */\n    get() = definedExternally\n    set(value) = definedExternally\n  var screenY: Int? /*
= 0 */\n    get() = definedExternally\n    set(value) = definedExternally\n  var clientX: Int? /* = 0 */\n
get() = definedExternally\n    set(value) = definedExternally\n  var clientY: Int? /* = 0 */\n    get() =
definedExternally\n    set(value) = definedExternally\n  var button: Short? /* = 0 */\n    get() =

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definedExternally\n    set(value) = definedExternally\n    var buttons: Short? /* = 0 */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var relatedTarget: EventTarget? /* = null */\n    get()
= definedExternally\n    set(value) = definedExternally\n
    var region: String? /* = null */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MouseEventInit(screenX: Int? = 0, screenY:
Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? =
null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false,
metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn:
Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock:
Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol:
Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MouseEventInit {\n    val o =
js("{}")\n    o["screenX"] =
screenX\n    o["screenY"] = screenY\n    o["clientX"] = clientX\n    o["clientY"] = clientY\n    o["button"] =
button\n    o["buttons"] = buttons\n    o["relatedTarget"] = relatedTarget\n    o["region"] = region\n
o["ctrlKey"] = ctrlKey\n    o["shiftKey"] = shiftKey\n    o["altKey"] = altKey\n    o["metaKey"] = metaKey\n
o["modifierAltGraph"] = modifierAltGraph\n    o["modifierCapsLock"] = modifierCapsLock\n
o["modifierFn"] = modifierFn\n    o["modifierFnLock"] = modifierFnLock\n    o["modifierHyper"] =
modifierHyper\n    o["modifierNumLock"] = modifierNumLock\n    o["modifierScrollLock"] =
modifierScrollLock\n    o["modifierSuper"] = modifierSuper\n    o["modifierSymbol"] = modifierSymbol\n
o["modifierSymbolLock"] = modifierSymbolLock\n    o["view"] = view\n    o["detail"] = detail\n
o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n    return
o}\n\n\npublic external interface EventModifierInit
: UIEventInit {\n    var ctrlKey: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var shiftKey: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var altKey: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var metaKey: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var modifierAltGraph: Boolean? /* = false */\n    get() = definedExternally\n    set(value)
= definedExternally\n    var modifierCapsLock: Boolean? /* = false */\n    get() = definedExternally\n
set(value) = definedExternally\n    var modifierFn: Boolean? /* = false */\n    get() = definedExternally\n
set(value) = definedExternally\n    var modifierFnLock: Boolean? /* = false */\n    get() = definedExternally\n
set(value) = definedExternally\n    var modifierHyper:
Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n    var
modifierNumLock: Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n
var modifierScrollLock: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var modifierSuper: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var modifierSymbol: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var modifierSymbolLock: Boolean? /* = false */\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun EventModifierInit(ctrlKey:
Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false,
modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean?
= false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false,
modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false,
modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): EventModifierInit {\n    val o = js("{}")\n
o["ctrlKey"] = ctrlKey\n    o["shiftKey"] = shiftKey\n    o["altKey"] = altKey\n    o["metaKey"] = metaKey\n
o["modifierAltGraph"] = modifierAltGraph\n    o["modifierCapsLock"] = modifierCapsLock\n
o["modifierFn"] = modifierFn\n    o["modifierFnLock"] = modifierFnLock\n    o["modifierHyper"] =

```

```

modifierHyper\n  o["modifierNumLock"] = modifierNumLock\n  o["modifierScrollLock"] =
modifierScrollLock\n  o["modifierSuper"] = modifierSuper\n  o["modifierSymbol"] = modifierSymbol\n
o["modifierSymbolLock"] = modifierSymbolLock\n
  o["view"] = view\n  o["detail"] = detail\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n
o["composed"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent) to Kotlin\n *\npublic external open
class WheelEvent(type: String, eventInitDict: WheelEventInit = definedExternally) : MouseEvent {\n  open val
deltaX: Double\n  open val deltaY: Double\n  open val deltaZ: Double\n  open val deltaMode: Int\n
companion object {\n    val DOM_DELTA_PIXEL: Int\n    val DOM_DELTA_LINE: Int\n    val
DOM_DELTA_PAGE: Int\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val
AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface WheelEventInit :
MouseEventInit {\n  var deltaX: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var deltaY: Double? /* = 0.0 */\n
    get() = definedExternally\n    set(value) = definedExternally\n  var deltaZ: Double? /* = 0.0 */\n    get() =
definedExternally\n    set(value) = definedExternally\n  var deltaMode: Int? /* = 0 */\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
WheelEventInit(deltaX: Double? = 0.0, deltaY: Double? = 0.0, deltaZ: Double? = 0.0, deltaMode: Int? = 0, screenX:
Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget:
EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean?
= false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false,
modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false,
modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean?
= false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail:
Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): WheelEventInit {\n
  val o = js("{}")\n  o["deltaX"] = deltaX\n  o["deltaY"] = deltaY\n  o["deltaZ"] = deltaZ\n
o["deltaMode"] = deltaMode\n  o["screenX"] = screenX\n  o["screenY"] = screenY\n  o["clientX"] =
clientX\n  o["clientY"] = clientY\n  o["button"] = button\n  o["buttons"] = buttons\n  o["relatedTarget"] =
relatedTarget\n  o["region"] = region\n  o["ctrlKey"] = ctrlKey\n  o["shiftKey"] = shiftKey\n  o["altKey"]
= altKey\n  o["metaKey"] = metaKey\n  o["modifierAltGraph"] = modifierAltGraph\n
o["modifierCapsLock"] = modifierCapsLock\n  o["modifierFn"] = modifierFn\n  o["modifierFnLock"] =
modifierFnLock\n  o["modifierHyper"] = modifierHyper\n  o["modifierNumLock"] = modifierNumLock\n
  o["modifierScrollLock"] = modifierScrollLock\n  o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n  o["modifierSymbolLock"] = modifierSymbolLock\n  o["view"] =
view\n  o["detail"] = detail\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] =
composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent) to Kotlin\n *\npublic external open class
InputEvent(type: String, eventInitDict: InputEventInit = definedExternally) : UIEvent {\n  open val data: String\n
open val isComposing: Boolean\n
companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface InputEventInit : UIEventInit {\n  var data: String? /* = "" */\n    get() =
definedExternally\n    set(value) = definedExternally\n  var
isComposing: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun InputEventInit(data: String? = "",
isComposing: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable:
Boolean? = false, composed: Boolean? = false): InputEventInit {\n  val o = js("{}")\n  o["data"] = data\n
o["isComposing"] = isComposing\n  o["view"] = view\n  o["detail"] = detail\n  o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n  o["composed"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[KeyboardEvent](https://developer.mozilla.org/en/docs/Web/API/KeyboardEvent) to Kotlin\n *\npublic external

```

```

open class KeyboardEvent(type: String, eventInitDict: KeyboardEventInit = definedExternally) : UIEvent {
    open val key: String
    open val code: String
    open val location: Int
    open val ctrlKey: Boolean
    open val shiftKey: Boolean
    open val altKey: Boolean
    open val metaKey: Boolean
    open val repeat: Boolean
    open val isComposing: Boolean
    open val charCode: Int
    open val keyCode: Int
    open val which: Int
    fun getModifierState(keyArg: String): Boolean
    companion object {
        val
        DOM_KEY_LOCATION_STANDARD: Int
        val DOM_KEY_LOCATION_LEFT: Int
        val
        DOM_KEY_LOCATION_RIGHT: Int
        val DOM_KEY_LOCATION_NUMPAD: Int
        val NONE:
        Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE:
        Short
    }
}

public external interface KeyboardEventInit : EventModifierInit {
    var key: String? /* = "" */
    get() = definedExternally
    set(value) = definedExternally
    var code: String? /* = "" */
    get() = definedExternally
    set(value) = definedExternally
    var location: Int? /* = 0 */
    get() = definedExternally
    set(value) = definedExternally
    var repeat: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
    var isComposing: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun KeyboardEventInit(key: String? = "", code: String? = "", location: Int? = 0, repeat: Boolean? = false, isComposing: Boolean? = false, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): KeyboardEventInit {
    val o = js("{}")
    o["key"] = key
    o["code"] = code
    o["location"] = location
    o["repeat"] = repeat
    o["isComposing"] = isComposing
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/** Exposes the JavaScript [CompositionEvent](https://developer.mozilla.org/en/docs/Web/API/CompositionEvent) to Kotlin */
public external open class CompositionEvent(type: String, eventInitDict: CompositionEventInit = definedExternally) : UIEvent {
    open val data: String
    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface CompositionEventInit : UIEventInit {
    var data: String? /* = "" */
    get() = definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun CompositionEventInit(data: String? = "", view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CompositionEventInit {
    val o = js("{}")
    o["data"] = data
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/** Exposes the JavaScript [Event](https://developer.mozilla.org/en/docs/Web/API/Event) to Kotlin */
public external open class Event(type: String, eventInitDict: EventInit = definedExternally) {
    open val type: String
    open val target: EventTarget?
    open val currentTarget: EventTarget?
    open val eventPhase: Short
    open val bubbles: Boolean
    open val cancelable: Boolean
    open val defaultPrevented: Boolean
    open val composed: Boolean
    open val isTrusted: Boolean
    open val timeStamp: Number
    fun composedPath(): Array<EventTarget>
    fun stopPropagation()
    fun stopImmediatePropagation()
    fun preventDefault()
    fun initEvent(type: String, bubbles: Boolean, cancelable: Boolean)
    companion object {
        val NONE:
    }
}

```



```

PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLUnknownElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUnknownElement)
to Kotlin\n *\npublic external abstract class HTMLUnknownElement : HTMLElement {\n    companion object {\n
    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap)
to Kotlin\n *\npublic external abstract class DOMStringMap\n\n@kotlin.internal.InlineOnly\npublic inline
operator fun DOMStringMap.get(name: String): String? =
asDynamic()[name]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMStringMap.set(name: String,
value: String) { asDynamic()[name] = value }\n\n/**\n * Exposes the JavaScript
[HTMLHtmlElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHtmlElement) to Kotlin\n *\npublic
external abstract class HTMLHtmlElement : HTMLElement {\n    open var version: String\n\n    companion object
{\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val
ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE:
Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to
Kotlin\n *\npublic external abstract class HTMLHeadElement : HTMLElement {\n    companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n
val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING:
Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val
DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the
JavaScript [HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to Kotlin\n
*\npublic external abstract class HTMLTitleElement : HTMLElement {\n    open var text: String\n\n    companion
object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE:

```



DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement) to Kotlin\n \*\n\npublic external abstract class HTMLStyleElement : HTMLElement, LinkStyle {\n open var media: String\n open var nonce: String\n open var type: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin\n \*\n\npublic external abstract class HTMLBodyElement : HTMLElement, WindowEventHandlers {\n open var text: String\n open var link: String\n open var vLink: String\n open var aLink: String\n open var bgColor: String\n open var background: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement) to Kotlin\n \*\n\npublic external abstract class HTMLHeadingElement : HTMLElement {\n open var align: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement) to Kotlin\n \*\n\npublic external abstract class HTMLParagraphElement : HTMLElement {\n open var align: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val

```

Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val
DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the
JavaScript [HTMLHRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHRElement) to Kotlin\n
*/\npublic external abstract class HTMLHRElement : HTMLElement {\n    open var align: String\n    open var
color: String\n    open var noShade: Boolean\n    open var size: String\n    open var width: String\n\n    companion
object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE:
Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n
        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLPreElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPreElement) to Kotlin\n
*/\npublic external abstract class HTMLPreElement : HTMLElement {\n    open var width: Int\n\n    companion
object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE:
Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n
        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLQuoteElement](https://developer.mozilla.org/en/docs/Web/API/HTMLQuoteElement) to
Kotlin\n */\npublic external abstract class HTMLQuoteElement : HTMLElement {\n    open var cite: String\n\n    companion
object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n
        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLLOListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLOListElement) to
Kotlin\n */\npublic external abstract class HTMLLOListElement : HTMLElement {\n    open var reversed: Boolean\n
    open var start: Int\n    open var type: String\n    open var compact: Boolean\n\n    companion object {\n
        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE:
Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n
        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:

```

Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLUListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUListElement) to Kotlin\n \*/\npublic external abstract class HTMLUListElement : HTMLInputElement {\n open var compact: Boolean\n open var type: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLLIElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLIElement) to Kotlin\n \*/\npublic external abstract class HTMLLIElement : HTMLInputElement {\n open var value: Int\n open var type: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLDListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDListElement) to Kotlin\n \*/\npublic external abstract class HTMLDListElement : HTMLInputElement {\n open var compact: Boolean\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLDivElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDivElement) to Kotlin\n \*/\npublic external abstract class HTMLDivElement : HTMLInputElement {\n open var align: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLAnchorElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAnchorElement) to Kotlin\n \*/\npublic external abstract class HTMLAnchorElement : HTMLInputElement, HTMLHyperlinkElementUtils

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{\n  open var target: String\n  open var download: String\n  open var ping: String\n  open var rel: String\n
open val relList: DOMTokenList\n  open var hreflang: String\n  open var type: String\n  open var text: String\n
open
  var referrerPolicy: String\n  open var coords: String\n  open var charset: String\n  open var name: String\n
open var rev: String\n  open var shape: String\n\n  companion object {\n    val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[HTMLDataElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataElement)
to Kotlin\n */\npublic external abstract class HTMLDataElement : HTMLElement {\n  open var value: String\n
companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val
TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTimeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTimeElement)
to Kotlin\n */\npublic external abstract class HTMLTimeElement : HTMLElement {\n  open var dateTime:
String\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[HTMLSpanElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSpanElement) to Kotlin\n */\npublic
external abstract class HTMLSpanElement : HTMLElement {\n  companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[HTMLBRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBRElement)

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to Kotlin\n */\npublic external abstract class HTMLBRElement : HTMLInputElement {\n    open var clear: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [HTMLHyperlinkElementUtils](https://developer.mozilla.org/en/docs/Web/API/HTMLHyperlinkElementUtils) to Kotlin\n */\npublic external interface HTMLHyperlinkElementUtils {\n    var href: String\n    val origin: String\n    var protocol: String\n    var username: String\n    var password: String\n    var host: String\n    var hostname: String\n    var port: String\n    var pathname: String\n    var search: String\n    var hash: String\n}\n\n/**\n * Exposes the JavaScript [HTMLModElement](https://developer.mozilla.org/en/docs/Web/API/HTMLModElement) to Kotlin\n */\npublic external abstract class HTMLModElement : HTMLInputElement {\n    open var cite: String\n    open var dateTime: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [HTMLPictureElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPictureElement) to Kotlin\n */\npublic external abstract class HTMLPictureElement : HTMLInputElement {\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [HTMLSourceElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSourceElement) to Kotlin\n */\npublic external abstract class HTMLSourceElement : HTMLInputElement {\n    open var src: String\n    open var type: String\n    open var srcset: String\n    open var sizes: String\n    open var media: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n    }\n}

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLImageElement](https://developer.mozilla.org/en/docs/Web/API/HTMLImageElement) to Kotlin\n
*\n\npublic external abstract class HTMLImageElement : HTMLInputElement, HTMLImageElement,
TexImageSource {\n    open var alt: String\n    open var src: String\n    open var srcset: String\n    open var sizes:
String\n    open var crossOrigin: String?\n    open var useMap: String\n    open var isMap: Boolean\n
    open var width: Int\n    open var height: Int\n    open val naturalWidth: Int\n    open val naturalHeight: Int\n
open val complete: Boolean\n    open val currentSrc: String\n    open var referrerPolicy: String\n    open var name:
String\n    open var lowsrc: String\n    open var align: String\n    open var hspace: Int\n    open var vspace: Int\n
open var longDesc: String\n    open var border: String\n    open val x: Int\n    open val y: Int\n\n    companion object
{\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING:
Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val
DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the
JavaScript [HTMLIFrameElement](https://developer.mozilla.org/en/docs/Web/API/HTMLIFrameElement) to
Kotlin\n
*\n\npublic external abstract class HTMLIFrameElement : HTMLInputElement {\n    open var src: String\n
open var srcdoc: String\n    open var name: String\n    open val sandbox: DOMTokenList\n    open var
allowFullscreen: Boolean\n    open var allowUserMedia: Boolean\n    open var width: String\n    open var height:
String\n    open var referrerPolicy: String\n    open val contentDocument: Document?\n    open val contentWindow:
Window?\n    open var align: String\n    open var scrolling: String\n    open var frameBorder: String\n    open var
longDesc: String\n    open var marginHeight: String\n    open var marginWidth: String\n
    fun getSVGDocument(): Document?\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLEmbedElement](https://developer.mozilla.org/en/docs/Web/API/HTMLEmbedElement) to Kotlin\n
*\n\npublic external abstract class HTMLEmbedElement
: HTMLInputElement {\n    open var src: String\n    open var type: String\n    open var width: String\n    open var height:
String\n    open var align: String\n    open var name: String\n    fun getSVGDocument(): Document?\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n

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DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to Kotlin\n
*\npublic external abstract class HTMLElement : HTMLElement {\n    open var data: String\n    open var
type: String\n    open var typeMustMatch: Boolean\n    open var name: String\n    open var useMap: String\n    open
val form: HTMLFormElement?\n    open var width: String\n    open var height: String\n    open val
contentDocument: Document?\n    open val contentWindow: Window?\n    open val willValidate: Boolean\n    open
val validity: ValidityState\n    open val validationMessage: String\n    open var align: String\n    open var archive:
String\n    open var code: String\n    open var declare: Boolean\n    open var hspace: Int\n    open var standby:
String\n    open var vspace: Int\n    open var codeBase: String\n    open var codeType: String\n    open var border:
String\n    fun getSVGDocument(): Document?\n    fun checkValidity(): Boolean\n
    fun reportValidity(): Boolean\n    fun setCustomValidity(error: String)\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to Kotlin\n
*\npublic
external abstract class HTMLParamElement : HTMLElement {\n    open var name: String\n    open var value:
String\n    open var type: String\n    open var valueType: String\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement)
to Kotlin\n
*\npublic external abstract class HTMLVideoElement : HTMLMediaElement, CanvasImageSource,
TexImageSource {\n    open var width: Int\n    open var height: Int\n    open val videoWidth: Int\n    open val
videoHeight: Int\n    open var poster: String\n    open var playsInline: Boolean\n\n    companion object {\n        val
NETWORK_EMPTY: Short\n        val NETWORK_IDLE: Short\n        val NETWORK_LOADING: Short\n
        val NETWORK_NO_SOURCE: Short\n        val HAVE_NOTHING: Short\n        val HAVE_METADATA:
Short\n        val HAVE_CURRENT_DATA: Short\n        val HAVE_FUTURE_DATA: Short\n        val
HAVE_ENOUGH_DATA: Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n

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    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement) to Kotlin\n
*/\npublic external abstract class HTMLAudioElement : HTMLMediaElement {\n    companion object {\n        val
NETWORK_EMPTY: Short\n        val NETWORK_IDLE: Short\n        val NETWORK_LOADING: Short\n
val NETWORK_NO_SOURCE: Short\n        val HAVE_NOTHING: Short\n        val HAVE_METADATA:
Short\n        val HAVE_CURRENT_DATA: Short\n        val HAVE_FUTURE_DATA: Short\n        val
HAVE_ENOUGH_DATA: Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTrackElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTrackElement) to Kotlin\n
*/\npublic external abstract class HTMLTrackElement : HTMLMediaElement {\n    open var kind:
String\n    open var src: String\n    open var srclang: String\n    open var label: String\n    open var default:
Boolean\n    open val readyState: Short\n    open val track: TextTrack\n\n    companion object {\n        val NONE:
Short\n        val LOADING: Short\n        val LOADED: Short\n        val ERROR: Short\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLMediaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement) to
Kotlin\n
*/\npublic external abstract class HTMLMediaElement : HTMLMediaElement {\n    open val error:
MediaError?\n    open var src: String\n    open var srcObject: dynamic\n    open val currentSrc: String\n    open var
crossOrigin: String?\n    open val networkState: Short\n    open var preload: String\n    open val buffered:
TimeRanges\n    open val readyState: Short\n    open val seeking: Boolean\n    open var currentTime: Double\n
open val duration: Double\n    open val paused: Boolean\n    open var defaultPlaybackRate: Double\n    open var
playbackRate: Double\n    open val played: TimeRanges\n    open val seekable: TimeRanges\n    open val ended:
Boolean\n    open var autoplay: Boolean\n    open var loop: Boolean\n    open var controls: Boolean\n    open var
volume: Double\n    open var
muted: Boolean\n    open var defaultMuted: Boolean\n    open val audioTracks: AudioTrackList\n    open val
videoTracks: VideoTrackList\n    open val textTracks: TextTrackList\n    fun load()\n    fun canPlayType(type:
String): CanPlayTypeResult\n    fun fastSeek(time: Double)\n    fun getStartDate(): dynamic\n    fun play():
Promise<Unit>\n    fun pause()\n    fun addTextTrack(kind: TextTrackKind, label: String = definedExternally,
language: String = definedExternally): TextTrack\n\n    companion object {\n        val NETWORK_EMPTY:
Short\n        val NETWORK_IDLE: Short\n        val NETWORK_LOADING: Short\n        val
NETWORK_NO_SOURCE: Short\n        val HAVE_NOTHING: Short\n        val HAVE_METADATA: Short\n
        val HAVE_CURRENT_DATA: Short\n        val HAVE_FUTURE_DATA: Short\n        val

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HAVE\_ENOUGH\_DATA: Short\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }n}\n/n/\*\*\n \* Exposes the JavaScript [MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin\n \*/\npublic external abstract class MediaError {\n open val code: Short\n\n companion object {\n val MEDIA\_ERR\_ABORTED: Short\n val MEDIA\_ERR\_NETWORK: Short\n val MEDIA\_ERR\_DECODE: Short\n val MEDIA\_ERR\_SRC\_NOT\_SUPPORTED: Short\n }n}\n/n/\*\*\n \* Exposes the JavaScript [AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to Kotlin\n \*/\npublic external abstract class AudioTrackList : EventTarget {\n open val length: Int\n open var onchange: ((Event) -> dynamic)?\n open var onaddtrack: ((TrackEvent) -> dynamic)?\n open var onremovetrack: ((TrackEvent) -> dynamic)?\n fun getTrackById(id: String): AudioTrack?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun AudioTrackList.get(index: Int): AudioTrack? = asDynamic()[index]\n/n/\*\*\n \* Exposes the JavaScript [AudioTrack](https://developer.mozilla.org/en/docs/Web/API/AudioTrack) to Kotlin\n \*/\npublic external abstract class AudioTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\n open val id: String\n open val kind: String\n open val label: String\n open val language: String\n open var enabled: Boolean\n}\n/n/\*\*\n \* Exposes the JavaScript [VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin\n \*/\npublic external abstract class VideoTrackList : EventTarget {\n open val length: Int\n open val selectedIndex: Int\n open var onchange: ((Event) -> dynamic)?\n open var onaddtrack: ((TrackEvent) -> dynamic)?\n open var onremovetrack: ((TrackEvent) -> dynamic)?\n fun getTrackById(id: String): VideoTrack?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun VideoTrackList.get(index: Int): VideoTrack? = asDynamic()[index]\n/n/\*\*\n \* Exposes the JavaScript [VideoTrack](https://developer.mozilla.org/en/docs/Web/API/VideoTrack) to Kotlin\n \*/\npublic external abstract class VideoTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\n open val id: String\n open val kind: String\n open val label: String\n open val language: String\n open var selected: Boolean\n}\n\npublic external abstract class TextTrackList : EventTarget {\n open val length: Int\n open var onchange: ((Event) -> dynamic)?\n open var onaddtrack: ((TrackEvent) -> dynamic)?\n open var onremovetrack: ((TrackEvent) -> dynamic)?\n fun getTrackById(id: String): TextTrack?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun TextTrackList.get(index: Int): TextTrack? = asDynamic()[index]\n/n/\*\*\n \* Exposes the JavaScript [TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin\n \*/\npublic external abstract class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack {\n open val kind: TextTrackKind\n open val label: String\n open val language: String\n open val id: String\n open val inBandMetadataTrackDispatchType: String\n open var mode: TextTrackMode\n open val cues: TextTrackCueList?\n open val activeCues: TextTrackCueList?\n open var oncuechange: ((Event) -> dynamic)?\n fun addCue(cue: TextTrackCue)\n fun removeCue(cue: TextTrackCue)\n}\n\npublic external abstract class TextTrackCueList {\n open val length: Int\n fun getCueById(id: String): TextTrackCue?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun TextTrackCueList.get(index: Int): TextTrackCue? = asDynamic()[index]\n/n/\*\*\n \* Exposes the JavaScript [TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin\n \*/\npublic external abstract class TextTrackCue : EventTarget {\n open val track: TextTrack?\n open var id: String\n open var startTime: Double\n open var endTime: Double\n open var pauseOnExit: Boolean\n open var

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onenter: ((Event) -> dynamic)?\n  open var onexit: ((Event) -> dynamic)?\n}\n\n/**\n * Exposes the JavaScript
[TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin\n */\npublic external abstract
class TimeRanges {\n  open val length: Int\n  fun start(index: Int): Double\n  fun end(index: Int):
Double\n}\n\n/**\n * Exposes the JavaScript
[TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin\n */\npublic external open class
TrackEvent(type: String, eventInitDict: TrackEventInit
= definedExternally) : Event {\n  open val track: UnionAudioTrackOrTextTrackOrVideoTrack?\n\n  companion
object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface TrackEventInit : EventInit {\n  var track:
UnionAudioTrackOrTextTrackOrVideoTrack? /* = null */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun TrackEventInit(track:
UnionAudioTrackOrTextTrackOrVideoTrack? = null, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): TrackEventInit {\n  val o = js("{}")\n  o["track"] = track\n  o["bubbles"] =
bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return o\n}\n\n/**\n * Exposes the
JavaScript [HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to Kotlin\n
*/\npublic external
abstract class HTMLElement : HTMLCollection\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE:
Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement)
to Kotlin\n */\npublic external abstract class HTMLAreaElement : HTMLElement, HTMLHyperlinkElementUtils
{\n  open var alt: String\n  open var coords: String\n  open var shape: String\n  open var target: String\n  open
var download: String\n  open var ping: String\n  open var rel: String\n  open val relList: DOMTokenList\n
open var referrerPolicy: String\n  open var noHref: Boolean\n\n  companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING:
Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val
DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableElement) to Kotlin\n */\npublic
external abstract class HTMLTableElement : HTMLElement {\n  open var caption:
HTMLTableCaptionElement?\n  open var tHead: HTMLTableSectionElement?\n  open var tFoot:
HTMLTableSectionElement?\n  open val tBodies: HTMLCollection\n  open val rows: HTMLCollection\n  open
var align: String\n  open var border: String\n  open var frame: String\n  open var rules: String\n  open var
summary: String\n  open var width: String\n  open var bgColor: String\n  open var cellPadding: String\n  open

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DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin \n
*\npublic external abstract class HTMLTableRowElement : HTMLInputElement { \n    open val rowIndex: Int \n    open
val sectionRowIndex: Int \n    open val cells: HTMLCollection \n    open var align: String \n    open var ch: String \n
open var chOff: String \n    open var vAlign: String \n    open var bgColor: String \n    fun insertCell(index: Int =
definedExternally): HTMLInputElement \n    fun deleteCell(index: Int) \n \n
    companion object { \n        val ELEMENT_NODE: Short \n        val ATTRIBUTE_NODE: Short \n        val
TEXT_NODE: Short \n        val CDATA_SECTION_NODE: Short \n        val ENTITY_REFERENCE_NODE:
Short \n        val ENTITY_NODE: Short \n        val PROCESSING_INSTRUCTION_NODE: Short \n        val
COMMENT_NODE: Short \n        val DOCUMENT_NODE: Short \n        val DOCUMENT_TYPE_NODE: Short \n
        val DOCUMENT_FRAGMENT_NODE: Short \n        val NOTATION_NODE: Short \n        val
DOCUMENT_POSITION_DISCONNECTED: Short \n        val DOCUMENT_POSITION_PRECEDING: Short \n
        val DOCUMENT_POSITION_FOLLOWING: Short \n        val DOCUMENT_POSITION_CONTAINS: Short \n
        val DOCUMENT_POSITION_CONTAINED_BY: Short \n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short \n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTableCellElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCellElement) to Kotlin \n
*\npublic external abstract class HTMLTableCellElement : HTMLInputElement { \n    open
var colSpan: Int \n    open var rowSpan: Int \n    open var headers: String \n    open val cellIndex: Int \n    open var
scope: String \n    open var abbr: String \n    open var align: String \n    open var axis: String \n    open var height:
String \n    open var width: String \n    open var ch: String \n    open var chOff: String \n    open var noWrap: Boolean \n
open var vAlign: String \n    open var bgColor: String \n \n    companion object { \n        val ELEMENT_NODE:
Short \n        val ATTRIBUTE_NODE: Short \n        val TEXT_NODE: Short \n        val CDATA_SECTION_NODE:
Short \n        val ENTITY_REFERENCE_NODE: Short \n        val ENTITY_NODE: Short \n        val
PROCESSING_INSTRUCTION_NODE: Short \n        val COMMENT_NODE: Short \n        val
DOCUMENT_NODE: Short \n        val DOCUMENT_TYPE_NODE: Short \n        val
DOCUMENT_FRAGMENT_NODE: Short \n        val NOTATION_NODE: Short \n        val
DOCUMENT_POSITION_DISCONNECTED: Short \n        val DOCUMENT_POSITION_PRECEDING: Short \n
        val DOCUMENT_POSITION_FOLLOWING:
Short \n        val DOCUMENT_POSITION_CONTAINS: Short \n        val
DOCUMENT_POSITION_CONTAINED_BY: Short \n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short \n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLFormElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFormElement) to Kotlin \n
*\npublic external abstract class HTMLFormElement : HTMLInputElement { \n    open var acceptCharset: String \n    open var
action: String \n    open var autocomplete: String \n    open var enctype: String \n    open var encoding: String \n    open
var method: String \n    open var name: String \n    open var noValidate: Boolean \n    open var target: String \n    open
val elements: HTMLFormControlsCollection \n    open val length: Int \n    fun submit() \n    fun reset() \n    fun
checkValidity(): Boolean \n    fun reportValidity(): Boolean \n \n    companion object { \n        val ELEMENT_NODE:
Short \n        val ATTRIBUTE_NODE: Short \n        val TEXT_NODE: Short \n        val CDATA_SECTION_NODE:
Short \n        val ENTITY_REFERENCE_NODE: Short \n        val ENTITY_NODE: Short \n        val
PROCESSING_INSTRUCTION_NODE: Short \n        val COMMENT_NODE: Short \n        val
DOCUMENT_NODE: Short \n        val DOCUMENT_TYPE_NODE: Short \n        val
DOCUMENT_FRAGMENT_NODE: Short \n        val NOTATION_NODE: Short \n        val
DOCUMENT_POSITION_DISCONNECTED: Short \n        val DOCUMENT_POSITION_PRECEDING: Short \n
        val DOCUMENT_POSITION_FOLLOWING: Short \n        val DOCUMENT_POSITION_CONTAINS: Short \n
        val DOCUMENT_POSITION_CONTAINED_BY: Short \n        val

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DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLFormElement.get(index: Int): Element? =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLFormElement.get(name:
String): UnionElementOrRadioNodeList? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[HTMLLabelElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLabelElement)
to Kotlin\n *\npublic external abstract class HTMLLabelElement : HTMLInputElement {\n open val form:
HTMLFormElement?\n open var htmlFor: String\n open val control: HTMLInputElement?\n\n companion object
{\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n
* Exposes the JavaScript
[HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to Kotlin\n *\npublic
external abstract class HTMLInputElement : HTMLInputElement {\n open var accept: String\n open var alt: String\n
open var autocomplete: String\n open var autofocus: Boolean\n open var defaultChecked: Boolean\n open var
checked: Boolean\n open var dirName: String\n open var disabled: Boolean\n open val form:
HTMLFormElement?\n open val files: FileList?\n open var formAction: String\n open var formEnctype:
String\n open var formMethod: String\n open var formNoValidate: Boolean\n open var formTarget: String\n
open var height: Int\n open var indeterminate: Boolean\n open var inputMode: String\n open val list:
HTMLInputElement?\n open var max: String\n open var maxLength: Int\n open var min: String\n open var
minLength: Int\n open var multiple: Boolean\n open var name: String\n open var pattern:
String\n open var placeholder: String\n open var readOnly: Boolean\n open var required: Boolean\n open
var size: Int\n open var src: String\n open var step: String\n open var type: String\n open var defaultValue:
String\n open var value: String\n open var valueAsDate: dynamic\n open var valueAsNumber: Double\n
open var width: Int\n open val willValidate: Boolean\n open val validity: ValidityState\n open val
validationMessage: String\n open val labels: NodeList\n open var selectionStart: Int?\n open var selectionEnd:
Int?\n open var selectionDirection: String?\n open var align: String\n open var useMap: String\n fun
stepUp(n: Int = definedExternally)\n fun stepDown(n: Int = definedExternally)\n fun checkValidity(): Boolean\n
fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n fun select()\n fun
setRangeText(replacement: String)\n fun setRangeText(replacement: String, start: Int, end:
Int, selectionMode: SelectionMode = definedExternally)\n fun setSelectionRange(start: Int, end: Int, direction:
String = definedExternally)\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n
* Exposes the JavaScript
[HTMLButtonElement](https://developer.mozilla.org/en/docs/Web/API/HTMLButtonElement)

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to Kotlin\n *\\npublic external abstract class HTMLButtonElement : HTMLInputElement {\n  open var autofocus:
Boolean\n  open var disabled: Boolean\n  open val form: HTMLFormElement?\n  open var formAction: String\n
  open var formEnctype: String\n  open var formMethod: String\n  open var formNoValidate: Boolean\n  open
var formTarget: String\n  open var name: String\n  open var type: String\n  open var value: String\n  open var
menu: HTMLMenuElement?\n  open val willValidate: Boolean\n  open val validity: ValidityState\n  open val
validationMessage: String\n  open val labels: NodeList\n  fun checkValidity(): Boolean\n  fun reportValidity():
Boolean\n  fun setCustomValidity(error: String)\n\n  companion object {\n    val ELEMENT_NODE: Short\n
    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n
    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n\n  /**\n   * Exposes the JavaScript
[HTMLSelectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSelectElement) to Kotlin\n *\\npublic
external abstract class HTMLSelectElement : HTMLInputElement, ItemArrayLike<Element> {\n  open var
autocomplete: String\n  open var autofocus: Boolean\n  open var disabled: Boolean\n  open val form:
HTMLFormElement?\n  open var multiple: Boolean\n  open var name: String\n  open var required:
Boolean\n  open var size: Int\n  open val type: String\n  open val options: HTMLOptionsCollection\n  override
var length: Int\n  open val selectedOptions: HTMLCollection\n  open var selectedIndex: Int\n  open var value:
String\n  open val willValidate: Boolean\n  open val validity: ValidityState\n  open val validationMessage:
String\n  open val labels: NodeList\n  fun namedItem(name: String): HTMLOptionElement?\n  fun add(element:
UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)\n  fun
remove(index: Int)\n  fun checkValidity(): Boolean\n  fun reportValidity(): Boolean\n  fun
setCustomValidity(error: String)\n  override fun item(index: Int): Element?\n\n  companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE:
Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val
DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val
NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
  }\n\n  @kotlin.internal.InlineOnly\n  public inline operator fun HTMLSelectElement.get(index: Int): Element? =
asDynamic()[index]\n\n  @kotlin.internal.InlineOnly\n  public inline operator fun HTMLSelectElement.set(index: Int,
option: HTMLOptionElement?) { asDynamic()[index] = option }\n\n  /**\n   * Exposes the JavaScript
[HTMLDataListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataListElement) to Kotlin\n *\\npublic
external abstract class HTMLDataListElement : HTMLInputElement
{\n  open val options: HTMLCollection\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n

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    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLOptGroupElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptGroupElement) to Kotlin\n
*/\npublic external abstract class HTMLOptGroupElement
: HTMLInputElement, UnionHTMLOptGroupElementOrHTMLOptionElement {\n    open var disabled: Boolean\n
open var label: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLOptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionElement)
to Kotlin\n */\npublic external abstract class HTMLOptionElement : HTMLInputElement,
UnionHTMLOptGroupElementOrHTMLOptionElement {\n    open var disabled: Boolean\n    open var form:
HTMLFormElement?\n    open var label: String\n    open var defaultSelected: Boolean\n    open var selected:
Boolean\n    open var value: String\n    open var text: String\n    open val index: Int\n\n    companion object {\n
        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING:
Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val
DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTextAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTextAreaElement) to Kotlin\n
*/\npublic external abstract class HTMLTextAreaElement : HTMLInputElement {\n    open var autocomplete: String\n
open var autofocus: Boolean\n    open var cols: Int\n    open var dirName: String\n    open var disabled: Boolean\n
open val form: HTMLFormElement?\n    open var inputMode: String\n    open var maxLength: Int\n    open var
minLength: Int\n    open var name: String\n    open var placeholder: String\n    open var readOnly: Boolean\n    open
var required: Boolean\n    open var rows: Int\n    open var wrap: String\n    open val type: String\n    open var
defaultValue: String\n    open var value: String\n    open val textLength: Int\n    open val willValidate:
Boolean\n    open val validity: ValidityState\n    open val validationMessage: String\n    open val labels: NodeList\n
open var selectionStart: Int?\n    open var selectionEnd: Int?\n    open var selectionDirection: String?\n    fun
checkValidity(): Boolean\n    fun reportValidity(): Boolean\n    fun setCustomValidity(error: String)\n    fun
select()\n    fun setRangeText(replacement: String)\n    fun setRangeText(replacement: String, start: Int, end: Int,
selectionMode: SelectionMode = definedExternally)\n    fun setSelectionRange(start: Int, end: Int, direction: String
= definedExternally)\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n

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    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLKeygenElement](https://developer.mozilla.org/en/docs/Web/API/HTMLKeygenElement) to Kotlin \n
*/ \n public external abstract class HTMLKeygenElement : HTMLInputElement { \n    open var autofocus: Boolean \n
open var challenge: String \n    open var disabled: Boolean \n    open val form: HTMLFormElement? \n    open var
keytype: String \n    open var name: String \n    open val type: String \n    open val willValidate: Boolean \n    open val
validity: ValidityState \n    open val validationMessage: String \n    open val labels: NodeList \n    fun checkValidity():
Boolean \n
    fun reportValidity(): Boolean \n    fun setCustomValidity(error: String) \n \n    companion object { \n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLOutputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOutputElement) to Kotlin \n
*/ \n public external
abstract class HTMLOutputElement : HTMLInputElement { \n    open val htmlFor: DOMTokenList \n    open val form:
HTMLFormElement? \n    open var name: String \n    open val type: String \n    open var defaultValue: String \n
open var value: String \n    open val willValidate: Boolean \n    open val validity: ValidityState \n    open val
validationMessage: String \n    open val labels: NodeList \n    fun checkValidity(): Boolean \n    fun reportValidity():
Boolean \n    fun setCustomValidity(error: String) \n \n    companion object { \n        val ELEMENT_NODE: Short\n
        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED:
Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val
DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLProgressElement](https://developer.mozilla.org/en/docs/Web/API/HTMLProgressElement) to Kotlin \n
*/ \n public external abstract class HTMLProgressElement : HTMLInputElement { \n    open var value: Double \n    open
var max: Double \n    open val position: Double \n    open val labels: NodeList \n \n    companion object { \n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLMeterElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMeterElement) to Kotlin\n */\npublic
external abstract class HTMLMeterElement : HTMLInputElement {\n    open var value: Double\n    open var min:
Double\n    open var max: Double\n    open var low: Double\n    open var high: Double\n    open var optimum:
Double\n    open val labels: NodeList\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n
        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLFieldSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFieldSetElement) to Kotlin\n
*/\npublic external abstract class HTMLFieldSetElement : HTMLInputElement {\n    open var disabled: Boolean\n
open val form: HTMLFormElement?\n    open var name: String\n    open val type: String\n    open val elements:
HTMLCollection\n    open val willValidate: Boolean\n    open val validity: ValidityState\n
        open val validationMessage: String\n        fun checkValidity(): Boolean\n        fun reportValidity(): Boolean\n        fun
setCustomValidity(error: String)\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLLegendElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLegendElement)
to Kotlin\n */\npublic external abstract class HTMLLegendElement : HTMLInputElement {\n    open val form:
HTMLFormElement?\n    open var align: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n
        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[ValidityState](https://developer.mozilla.org/en/docs/Web/API/ValidityState) to Kotlin\n
*/\npublic external abstract class ValidityState {\n    open val valueMissing: Boolean\n    open val typeMismatch:
Boolean\n    open val patternMismatch: Boolean\n    open val tooLong: Boolean\n    open val tooShort: Boolean\n
open val rangeUnderflow: Boolean\n    open val rangeOverflow: Boolean\n    open val stepMismatch: Boolean\n
open val badInput: Boolean\n    open val customError: Boolean\n    open val valid: Boolean\n}\n\n\n/**\n * Exposes
the JavaScript [HTMLDetailsElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDetailsElement) to

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Kotlin\n */\npublic external abstract class HTMLDetailsElement : HTMLInputElement {\n  open var open: Boolean\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\npublic external abstract class HTMLMenuElement : HTMLInputElement {\n  open var type: String\n  open var label: String\n  open var compact: Boolean\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\npublic external abstract class HTMLMenuItemElement : HTMLInputElement {\n  open var type: String\n  open var label: String\n  open var icon: String\n  open var disabled: Boolean\n  open var checked: Boolean\n  open var radiogroup: String\n  open var default: Boolean\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\npublic external open class RelatedEvent(type: String, eventInitDict: RelatedEventInit = definedExternally) : Event {\n  open val relatedTarget: EventTarget?\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface RelatedEventInit : EventInit {\n  var relatedTarget: EventTarget? /* = null */\n  get() = definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun RelatedEventInit(relatedTarget: EventTarget? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): RelatedEventInit {\n  val o = js("{}")\n  o["relatedTarget"] = relatedTarget\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return o\n}\n\n/* Exposes the JavaScript [HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin\n */\n\npublic external abstract class HTMLDialogElement : HTMLInputElement {\n  open var open: Boolean\n  open var returnValue: String\n  fun show(anchor: UnionElementOrMouseEvent = definedExternally)\n  fun showModal(anchor: UnionElementOrMouseEvent = definedExternally)\n  fun close(returnValue: String = definedExternally)\n\n  companion object {\n    val ELEMENT_NODE: Short

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    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n
    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLScriptElement](https://developer.mozilla.org/en/docs/Web/API/HTMLScriptElement) to Kotlin \n * \n public
external abstract class HTMLScriptElement : HTMLElement, HTMLOrSVGScriptElement { \n    open var src:
String \n    open var type: String \n
    open var charset: String \n    open var async: Boolean \n    open var defer: Boolean \n    open var crossOrigin:
String? \n    open var text: String \n    open var nonce: String \n    open var event: String \n    open var htmlFor:
String \n \n    companion object { \n        val ELEMENT_NODE: Short \n        val ATTRIBUTE_NODE: Short \n
        val TEXT_NODE: Short \n        val CDATA_SECTION_NODE: Short \n        val ENTITY_REFERENCE_NODE:
Short \n        val ENTITY_NODE: Short \n        val PROCESSING_INSTRUCTION_NODE: Short \n        val
COMMENT_NODE: Short \n        val DOCUMENT_NODE: Short \n        val DOCUMENT_TYPE_NODE: Short \n
        val DOCUMENT_FRAGMENT_NODE: Short \n        val NOTATION_NODE: Short \n        val
DOCUMENT_POSITION_DISCONNECTED: Short \n        val DOCUMENT_POSITION_PRECEDING: Short \n
        val DOCUMENT_POSITION_FOLLOWING: Short \n        val DOCUMENT_POSITION_CONTAINS: Short \n
        val DOCUMENT_POSITION_CONTAINED_BY: Short \n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short \n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement) to Kotlin \n
* \n public external abstract class HTMLTemplateElement : HTMLElement { \n    open val content:
DocumentFragment \n \n    companion object { \n        val ELEMENT_NODE: Short \n        val ATTRIBUTE_NODE:
Short \n        val TEXT_NODE: Short \n        val CDATA_SECTION_NODE: Short \n        val
ENTITY_REFERENCE_NODE: Short \n        val ENTITY_NODE: Short \n        val
PROCESSING_INSTRUCTION_NODE: Short \n        val COMMENT_NODE: Short \n        val
DOCUMENT_NODE: Short \n        val DOCUMENT_TYPE_NODE: Short \n        val
DOCUMENT_FRAGMENT_NODE: Short \n        val NOTATION_NODE: Short \n        val
DOCUMENT_POSITION_DISCONNECTED: Short \n        val DOCUMENT_POSITION_PRECEDING: Short \n
        val DOCUMENT_POSITION_FOLLOWING: Short \n        val DOCUMENT_POSITION_CONTAINS: Short \n
        val DOCUMENT_POSITION_CONTAINED_BY: Short \n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short \n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin \n * \n public
external abstract class HTMLSlotElement : HTMLElement { \n    open var name: String \n    fun
assignedNodes(options: AssignedNodesOptions = definedExternally): Array<Node> \n \n    companion object { \n
        val ELEMENT_NODE: Short \n        val ATTRIBUTE_NODE: Short \n        val TEXT_NODE: Short \n        val
CDATA_SECTION_NODE: Short \n        val ENTITY_REFERENCE_NODE: Short \n        val ENTITY_NODE:
Short \n        val PROCESSING_INSTRUCTION_NODE: Short \n        val COMMENT_NODE: Short \n        val
DOCUMENT_NODE: Short \n        val DOCUMENT_TYPE_NODE: Short \n        val
DOCUMENT_FRAGMENT_NODE: Short \n        val NOTATION_NODE: Short \n        val
DOCUMENT_POSITION_DISCONNECTED: Short \n        val DOCUMENT_POSITION_PRECEDING: Short \n
        val DOCUMENT_POSITION_FOLLOWING: Short \n        val DOCUMENT_POSITION_CONTAINS:

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Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
AssignedNodesOptions {\n    var flatten: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline fun AssignedNodesOptions(flatten: Boolean? =
false): AssignedNodesOptions {\n    val o = js("{}")\n    o["flatten"] = flatten\n    return o\n}\n\n/**\n * Exposes
the JavaScript [HTMLCanvasElement](https://developer.mozilla.org/en/docs/Web/API/HTMLCanvasElement) to
Kotlin\n */\n\npublic external abstract class HTMLCanvasElement : HTMLElement, CanvasImageSource,
TexImageSource {\n    open var width: Int\n    open var height: Int\n    fun getContext(contextId: String, vararg
arguments: Any?): RenderingContext?\n    fun toDataURL(type: String = definedExternally, quality: Any? =
definedExternally): String\n    fun toBlob(_callback:
(Blob?) -> Unit, type: String = definedExternally, quality: Any? = definedExternally)\n}\n\n    companion object {\n
val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
CanvasRenderingContext2DSettings {\n    var alpha: Boolean? /* = true */\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
CanvasRenderingContext2DSettings(alpha: Boolean? = true): CanvasRenderingContext2DSettings {\n    val o =
js("{}")\n    o["alpha"] = alpha\n    return o\n}\n\n/**\n * Exposes the JavaScript
[CanvasRenderingContext2D](https://developer.mozilla.org/en/docs/Web/API/CanvasRenderingContext2D) to
Kotlin\n */\n\npublic external abstract class CanvasRenderingContext2D : CanvasState, CanvasTransform,
CanvasCompositing, CanvasImageSmoothing, CanvasFillStrokeStyles, CanvasShadowStyles, CanvasFilters,
CanvasRect, CanvasDrawPath, CanvasUserInterface, CanvasText, CanvasDrawImage, CanvasHitRegion,
CanvasImageData, CanvasPathDrawingStyles, CanvasTextDrawingStyles, CanvasPath, RenderingContext {\n
open val canvas: HTMLCanvasElement\n}\n\npublic external interface CanvasState {\n    fun save()\n    fun
restore()\n}\n\npublic external interface CanvasTransform {\n    fun scale(x: Double, y: Double)\n
fun rotate(angle: Double)\n    fun translate(x: Double, y: Double)\n    fun transform(a: Double, b: Double, c:
Double, d: Double, e: Double, f: Double)\n    fun getTransform(): DOMMatrix\n    fun setTransform(a: Double, b:
Double, c: Double, d: Double, e: Double, f: Double)\n    fun setTransform(transform: dynamic =
definedExternally)\n    fun resetTransform()\n}\n\npublic external interface CanvasCompositing {\n    var
globalAlpha: Double\n    var globalCompositeOperation: String\n}\n\npublic external interface
CanvasImageSmoothing {\n    var imageSmoothingEnabled: Boolean\n    var imageSmoothingQuality:
ImageSmoothingQuality\n}\n\npublic external interface CanvasFillStrokeStyles {\n    var strokeStyle: dynamic\n
get() = definedExternally\n    set(value) = definedExternally\n    var fillStyle: dynamic\n    get() =
definedExternally\n    set(value) = definedExternally\n    fun createLinearGradient(x0: Double, y0: Double, x1:
Double, y1: Double): CanvasGradient\n
fun createRadialGradient(x0: Double, y0: Double, r0: Double, x1: Double, y1: Double, r1: Double):
CanvasGradient\n    fun createPattern(image: CanvasImageSource, repetition: String): CanvasPattern?\n}\n\npublic
external interface CanvasShadowStyles {\n    var shadowOffsetX: Double\n    var shadowOffsetY: Double\n    var
shadowBlur: Double\n    var shadowColor: String\n}\n\npublic external interface CanvasFilters {\n    var filter:
String\n}\n\npublic external interface CanvasRect {\n    fun clearRect(x: Double, y: Double, w: Double, h:
Double)\n    fun fillRect(x: Double, y: Double, w: Double, h: Double)\n    fun strokeRect(x: Double, y: Double, w:
Double, h: Double)\n}\n\npublic external interface CanvasDrawPath {\n    fun beginPath()\n    fun fill(fillRule:

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CanvasFillRule = definedExternally)\n fun fill(path: Path2D, fillRule: CanvasFillRule = definedExternally)\n
fun stroke()\n fun stroke(path: Path2D)\n fun clip(fillRule: CanvasFillRule = definedExternally)\n fun
clip(path: Path2D, fillRule: CanvasFillRule = definedExternally)\n fun resetClip()\n fun isPointInPath(x:
Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\n fun isPointInPath(path: Path2D, x:
Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\n fun isPointInStroke(x: Double, y:
Double): Boolean\n fun isPointInStroke(path: Path2D, x: Double, y: Double): Boolean\n}\n\npublic external
interface CanvasUserInterface {\n fun drawFocusIfNeeded(element: Element)\n fun drawFocusIfNeeded(path:
Path2D, element: Element)\n fun scrollPathIntoView()\n fun scrollPathIntoView(path: Path2D)\n}\n\npublic
external interface CanvasText {\n fun fillText(text: String, x: Double, y: Double, maxWidth: Double =
definedExternally)\n fun strokeText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally)\n
fun measureText(text: String): TextMetrics\n}\n\npublic external interface CanvasDrawImage {\n fun
drawImage(image:
CanvasImageSource, dx: Double, dy: Double)\n fun drawImage(image: CanvasImageSource, dx: Double, dy:
Double, dw: Double, dh: Double)\n fun drawImage(image: CanvasImageSource, sx: Double, sy: Double, sw:
Double, sh: Double, dx: Double, dy: Double, dw: Double, dh: Double)\n}\n\npublic external interface
CanvasHitRegion {\n fun addHitRegion(options: HitRegionOptions = definedExternally)\n fun
removeHitRegion(id: String)\n fun clearHitRegions()\n}\n\npublic external interface CanvasImageData {\n fun
createImageData(sw: Double, sh: Double): ImageData\n fun createImageData(imagedata: ImageData):
ImageData\n fun getImageData(sx: Double, sy: Double, sw: Double, sh: Double): ImageData\n fun
putImageData(imagedata: ImageData, dx: Double, dy: Double)\n fun putImageData(imagedata: ImageData, dx:
Double, dy: Double, dirtyX: Double, dirtyY: Double, dirtyWidth: Double, dirtyHeight: Double)\n}\n\npublic
external interface CanvasPathDrawingStyles {\n var lineWidth:
Double\n var lineCap: CanvasLineCap\n var lineJoin: CanvasLineJoin\n var miterLimit: Double\n var
lineDashOffset: Double\n fun setLineDash(segments: Array<Double>)\n fun getLineDash():
Array<Double>\n}\n\npublic external interface CanvasTextDrawingStyles {\n var font: String\n var textAlign:
CanvasTextAlign\n var textBaseline: CanvasTextBaseline\n var direction: CanvasDirection\n}\n\npublic
external interface CanvasPath {\n fun closePath()\n fun moveTo(x: Double, y: Double)\n fun lineTo(x:
Double, y: Double)\n fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)\n fun
bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)\n fun arcTo(x1:
Double, y1: Double, x2: Double, y2: Double, radius: Double)\n fun arcTo(x1: Double, y1: Double, x2: Double,
y2: Double, radiusX: Double, radiusY: Double, rotation: Double)\n fun rect(x: Double, y: Double, w: Double, h:
Double)\n fun arc(x:
Double, y: Double, radius: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean =
definedExternally)\n fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double,
startAngle: Double, endAngle: Double, anticlockwise: Boolean = definedExternally)\n}\n\n/**\n * Exposes the
JavaScript [CanvasGradient](https://developer.mozilla.org/en/docs/Web/API/CanvasGradient) to Kotlin\n */\n\npublic
external abstract class CanvasGradient {\n fun addColorStop(offset: Double, color: String)\n}\n\n/**\n * Exposes
the JavaScript [CanvasPattern](https://developer.mozilla.org/en/docs/Web/API/CanvasPattern) to Kotlin\n */\n\npublic
external abstract class CanvasPattern {\n fun setTransform(transform: dynamic =
definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[TextMetrics](https://developer.mozilla.org/en/docs/Web/API/TextMetrics) to Kotlin\n */\n\npublic external abstract
class TextMetrics {\n open val width: Double\n open val actualBoundingBoxLeft:
Double\n open val actualBoundingBoxRight: Double\n open val fontBoundingBoxAscent: Double\n open val
fontBoundingBoxDescent: Double\n open val actualBoundingBoxAscent: Double\n open val
actualBoundingBoxDescent: Double\n open val emHeightAscent: Double\n open val emHeightDescent:
Double\n open val hangingBaseline: Double\n open val alphabeticBaseline: Double\n open val
ideographicBaseline: Double\n}\n\npublic external interface HitRegionOptions {\n var path: Path2D? /* = null
*/\n get() = definedExternally\n set(value) = definedExternally\n var fillRule: CanvasFillRule? /* =

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CanvasFillRule.NONZERO *^n    get() = definedExternally\n    set(value) = definedExternally\n    var id:
String? /* = \"\" *^n    get() = definedExternally\n    set(value) = definedExternally\n    var parentID: String? /*
= null *^n    get() = definedExternally\n    set(value) = definedExternally\n    var cursor: String? /* = \"inherit\"
*^n    get() = definedExternally\n    set(value) = definedExternally\n    var control: Element? /* = null *^n
get() = definedExternally\n    set(value) = definedExternally\n    var label: String? /* = null *^n    get() =
definedExternally\n    set(value) = definedExternally\n    var role: String? /* = null *^n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
HitRegionOptions(path: Path2D? = null, fillRule: CanvasFillRule? = CanvasFillRule.NONZERO, id: String? = \"\",
parentID: String? = null, cursor: String? = \"inherit\", control: Element? = null, label: String? = null, role: String? =
null): HitRegionOptions {\n    val o = js(\"({})\")\n    o[\"path\"] = path\n    o[\"fillRule\"] = fillRule\n    o[\"id\"] =
id\n    o[\"parentID\"] = parentID\n    o[\"cursor\"] = cursor\n    o[\"control\"] = control\n    o[\"label\"] = label\n
o[\"role\"] = role\n    return o\n}\n\n/**\n *
Exposes the JavaScript [ImageData](https://developer.mozilla.org/en/docs/Web/API/ImageData) to Kotlin\n
*^n\npublic external open class ImageData : ImageBitmapSource, TexImageSource {\n    constructor(sw: Int, sh:
Int)\n    constructor(data: Uint8ClampedArray, sw: Int, sh: Int = definedExternally)\n    open val width: Int\n    open
val height: Int\n    open val data: Uint8ClampedArray\n}\n\n/**\n * Exposes the JavaScript
[Path2D](https://developer.mozilla.org/en/docs/Web/API/Path2D) to Kotlin\n
*^n\npublic external open class
Path2D() : CanvasPath {\n    constructor(path: Path2D)\n    constructor(paths: Array<Path2D>, fillRule:
CanvasFillRule = definedExternally)\n    constructor(d: String)\n    fun addPath(path: Path2D, transform: dynamic =
definedExternally)\n    override fun closePath()\n    override fun moveTo(x: Double, y: Double)\n    override fun
lineTo(x: Double, y: Double)\n    override fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)\n
    override fun bezierCurveTo(cp1x:
Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)\n    override fun arcTo(x1: Double, y1:
Double, x2: Double, y2: Double, radius: Double)\n    override fun arcTo(x1: Double, y1: Double, x2: Double, y2:
Double, radiusX: Double, radiusY: Double, rotation: Double)\n    override fun rect(x: Double, y: Double, w: Double,
h: Double)\n    override fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double,
anticlockwise: Boolean /* = definedExternally */) \n    override fun ellipse(x: Double, y: Double, radiusX: Double,
radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /* =
definedExternally */) \n}\n\n/**\n * Exposes the JavaScript
[ImageBitmapRenderingContext](https://developer.mozilla.org/en/docs/Web/API/ImageBitmapRenderingContext)
to Kotlin\n
*^n\npublic external abstract class ImageBitmapRenderingContext {\n    open val canvas:
HTMLCanvasElement\n    fun transferFromImageBitmap(bitmap:
ImageBitmap?)\n}\n\npublic external interface ImageBitmapRenderingContextSettings {\n    var alpha: Boolean? /*
= true *^n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ImageBitmapRenderingContextSettings(alpha: Boolean? = true): ImageBitmapRenderingContextSettings {\n    val o
= js(\"({})\")\n    o[\"alpha\"] = alpha\n    return o\n}\n\n/**\n * Exposes the JavaScript
[CustomElementRegistry](https://developer.mozilla.org/en/docs/Web/API/CustomElementRegistry) to Kotlin\n
*^n\npublic external abstract class CustomElementRegistry {\n    fun define(name: String, constructor: () -> dynamic,
options: ElementDefinitionOptions = definedExternally)\n    fun get(name: String): Any?\n    fun
whenDefined(name: String): Promise<Unit>\n}\n\npublic external interface ElementDefinitionOptions {\n    var
extends: String?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic
inline fun ElementDefinitionOptions(extends: String? = undefined): ElementDefinitionOptions {\n    val o =
js(\"({})\")\n    o[\"extends\"] = extends\n    return o\n}\n\npublic external interface ElementContentEditable {\n
var contentEditable: String\n    val isContentEditable: Boolean\n}\n\n/**\n * Exposes the JavaScript
[DataTransfer](https://developer.mozilla.org/en/docs/Web/API/DataTransfer) to Kotlin\n
*^n\npublic external
abstract class DataTransfer {\n    open var dropEffect: String\n    open var effectAllowed: String\n    open val items:

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Double\n    open val pageXOffset: Double\n    open val scrollY: Double\n    open val pageYOffset: Double\n    open
val screenX: Int\n    open val screenY: Int\n    open val outerWidth: Int\n    open val outerHeight: Int\n    open val
devicePixelRatio: Double\n    fun close()\n    fun stop()\n    fun focus()\n    fun blur()\n    fun open(url: String =
definedExternally, target: String = definedExternally, features: String = definedExternally): Window?\n    fun
alert()\n    fun alert(message: String)\n    fun confirm(message: String
= definedExternally): Boolean\n    fun prompt(message: String = definedExternally, default: String =
definedExternally): String?\n    fun print()\n    fun requestAnimationFrame(callback: (Double) -> Unit): Int\n    fun
cancelAnimationFrame(handle: Int)\n    fun postMessage(message: Any?, targetOrigin: String, transfer:
Array<dynamic> = definedExternally)\n    fun captureEvents()\n    fun releaseEvents()\n    fun matchMedia(query:
String): MediaQueryList\n    fun moveTo(x: Int, y: Int)\n    fun moveBy(x: Int, y: Int)\n    fun resizeTo(x: Int, y:
Int)\n    fun resizeBy(x: Int, y: Int)\n    fun scroll(options: ScrollToOptions = definedExternally)\n    fun scroll(x:
Double, y: Double)\n    fun scrollTo(options: ScrollToOptions = definedExternally)\n    fun scrollTo(x: Double, y:
Double)\n    fun scrollBy(options: ScrollToOptions = definedExternally)\n    fun scrollBy(x: Double, y: Double)\n
fun getComputedStyle(elt: Element, pseudoElt: String? = definedExternally):
CSSStyleDeclaration\n}\n\n@kotlin.internal.InlineOnly\npublic
inline operator fun Window.get(name: String): dynamic = asDynamic()[name]\n\npublic external abstract class
BarProp {\n    open val visible: Boolean\n}\n\n/**\n * Exposes the JavaScript
[History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin\n */\n\npublic external abstract class
History {\n    open val length: Int\n    open var scrollRestoration: ScrollRestoration\n    open val state: Any?\n    fun
go(delta: Int = definedExternally)\n    fun back()\n    fun forward()\n    fun pushState(data: Any?, title: String, url:
String? = definedExternally)\n    fun replaceState(data: Any?, title: String, url: String? =
definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin\n */\n\npublic external abstract class
Location {\n    open var href: String\n    open val origin: String\n    open var protocol: String\n    open var host:
String\n    open var hostname:
String\n    open var port: String\n    open var pathname: String\n    open var search: String\n    open var hash:
String\n    open val ancestorOrigins: Array<out String>\n    fun assign(url: String)\n    fun replace(url: String)\n
fun reload()\n}\n\n/**\n * Exposes the JavaScript
[PopStateEvent](https://developer.mozilla.org/en/docs/Web/API/PopStateEvent) to Kotlin\n */\n\npublic external
open class PopStateEvent(type: String, eventInitDict: PopStateEventInit = definedExternally) : Event {\n    open val
state: Any?\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val
AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n\n\npublic external interface PopStateEventInit
: EventInit {\n    var state: Any? /* = null */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun PopStateEventInit(state: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): PopStateEventInit {\n    val o = js("{}")\n    o["state"] = state\n    o["bubbles"]
= bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n    return o\n}\n\n/**\n * Exposes
the JavaScript [HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin\n
*/\n\npublic external open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit =
definedExternally) : Event {\n    open val oldURL: String\n    open val newURL: String\n\n    companion object {\n
        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n\n\npublic external interface HashChangeEventInit : EventInit {\n    var
oldURL: String? /* = "" */\n    get() = definedExternally\n    set(value) = definedExternally\n    var newURL:
String? /* = "" */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic
inline fun HashChangeEventInit(oldURL: String? = "", newURL: String? = "", bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): HashChangeEventInit {\n    val o = js("{}")\n
o["oldURL"] = oldURL\n    o["newURL"] = newURL\n    o["bubbles"] = bubbles\n    o["cancelable"] =

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cancelable\n  o[\"composed\"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent) to Kotlin\n *\npublic
external open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit = definedExternally) :
Event {\n  open val persisted: Boolean\n\n  companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface PageTransitionEventInit : EventInit {\n  var persisted: Boolean? /* = false */\n
get() = definedExternally\n
    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
PageTransitionEventInit(persisted: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): PageTransitionEventInit {\n  val o = js(\"({})\")\n  o[\"persisted\"] = persisted\n
o[\"bubbles\"] = bubbles\n  o[\"cancelable\"] = cancelable\n  o[\"composed\"] = composed\n  return
o\n}\n\n/**\n * Exposes the JavaScript
[BeforeUnloadEvent](https://developer.mozilla.org/en/docs/Web/API/BeforeUnloadEvent) to Kotlin\n *\npublic
external open class BeforeUnloadEvent : Event {\n  var returnValue: String\n\n  companion object {\n    val
NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n}\n\npublic external abstract class ApplicationCache : EventTarget {\n  open
val status: Short\n  open var onchecking: ((Event) -> dynamic)?\n  open var onerror: ((Event)
-> dynamic)?\n  open var onnoupdate: ((Event) -> dynamic)?\n  open var ondownloading: ((Event) ->
dynamic)?\n  open var onprogress: ((ProgressEvent) -> dynamic)?\n  open var onupdateready: ((Event) ->
dynamic)?\n  open var oncached: ((Event) -> dynamic)?\n  open var onobsolete: ((Event) -> dynamic)?\n  fun
update()\n  fun abort()\n  fun swapCache()\n\n  companion object {\n    val UNCACHED: Short\n    val
IDLE: Short\n    val CHECKING: Short\n    val DOWNLOADING: Short\n    val UPDATEREADY:
Short\n    val OBSOLETE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[NavigatorOnLine](https://developer.mozilla.org/en/docs/Web/API/NavigatorOnLine) to Kotlin\n *\npublic
external interface NavigatorOnLine {\n  val onLine: Boolean\n}\n\n/**\n * Exposes the JavaScript
[ErrorEvent](https://developer.mozilla.org/en/docs/Web/API/ErrorEvent) to Kotlin\n *\npublic external open class
ErrorEvent(type: String, eventInitDict: ErrorEventInit = definedExternally)
: Event {\n  open val message: String\n  open val filename: String\n  open val lineno: Int\n  open val colno:
Int\n  open val error: Any?\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE:
Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface
ErrorEventInit : EventInit {\n  var message: String? /* = \"\" */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var filename: String? /* = \"\" */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var lineno: Int? /* = 0 */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var colno: Int? /* = 0 */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var error: Any? /* = null */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ErrorEventInit(message:
String? = \"\", filename: String? = \"\", lineno: Int? = 0, colno: Int? = 0, error: Any? = null, bubbles: Boolean? =
false, cancelable: Boolean? = false, composed: Boolean? = false): ErrorEventInit {\n  val o = js(\"({})\")\n
o[\"message\"] = message\n  o[\"filename\"] = filename\n  o[\"lineno\"] = lineno\n  o[\"colno\"] = colno\n
o[\"error\"] = error\n  o[\"bubbles\"] = bubbles\n  o[\"cancelable\"] = cancelable\n  o[\"composed\"] =
composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[PromiseRejectionEvent](https://developer.mozilla.org/en/docs/Web/API/PromiseRejectionEvent) to Kotlin\n
*\npublic external open class PromiseRejectionEvent(type: String, eventInitDict: PromiseRejectionEventInit) :
Event {\n  open val promise: Promise<Any?>\n  open val reason: Any?\n\n  companion object {\n    val
NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface
PromiseRejectionEventInit : EventInit {\n  var promise: Promise<Any?>\n  get() = definedExternally\n
set(value) = definedExternally\n  var reason: Any?\n  get() = definedExternally\n  set(value) =

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definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun PromiseRejectionEventInit(promise:
Promise<Any?>?, reason: Any? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): PromiseRejectionEventInit {\n    val o = js(\"({})\")\n    o[\"promise\"] = promise\n    o[\"reason\"] = reason\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] =
composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[GlobalEventHandlers](https://developer.mozilla.org/en/docs/Web/API/GlobalEventHandlers) to Kotlin\n
*\npublic external interface GlobalEventHandlers {\n    var onabort: ((Event) -> dynamic)?\n        get() =
definedExternally\n        set(value) = definedExternally\n
    var onblur: ((FocusEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var oncancel: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var oncanplay: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var oncanplaythrough: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var onchange: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var onclick: ((MouseEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var onclose: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var oncontextmenu: ((MouseEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) =
definedExternally\n
    var oncuechange: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var ondblclick: ((MouseEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var ondrag: ((DragEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var ondragend: ((DragEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var ondragenter: ((DragEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var ondragexit: ((DragEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var ondragleave: ((DragEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var ondragover: ((DragEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var ondragstart: ((DragEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var ondrop: ((DragEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var ondurationchange: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var onemptied: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var onended: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n        get() =
definedExternally\n        set(value) = definedExternally\n
    var onfocus: ((FocusEvent) -> dynamic)?\n        get() =
definedExternally\n        set(value) = definedExternally\n
    var oninput: ((InputEvent) -> dynamic)?\n        get() =
definedExternally\n        set(value) = definedExternally\n
    var oninvalid: ((Event) -> dynamic)?\n        get() =
definedExternally\n        set(value) = definedExternally\n
    var onkeydown: ((KeyboardEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) =
definedExternally\n
    var onkeypress: ((KeyboardEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var onkeyup: ((KeyboardEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var onload: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var onloadenddata: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var onloadendmetadata: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var onloadend: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var onloadstart: ((ProgressEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var
onmousedown: ((MouseEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) =
definedExternally\n
    var onmouseenter: ((MouseEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var onmouseleave: ((MouseEvent) -> dynamic)?\n        get() =
definedExternally\n        set(value) = definedExternally\n
    var onmousemove: ((MouseEvent) -> dynamic)?\n

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get() = definedExternally\n    set(value) = definedExternally\n    var onmouseout: ((MouseEvent) -> dynamic)?\n
    get() = definedExternally\n    set(value) = definedExternally\n    var onmouseover: ((MouseEvent) ->
dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onmouseup: ((MouseEvent)
-> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onwheel: ((WheelEvent)
-> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onpause: ((Event)
-> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onplay: ((Event) ->
dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onplaying: ((Event) ->
dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onprogress:
((ProgressEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onratechange: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onreset: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onresize: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onscroll: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onseeked: ((Event) -> dynamic)?\n    get() = definedExternally\n
    set(value) = definedExternally\n    var onseeking: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onselect: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onshow: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onstalled: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onsubmit: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onsuspend: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var ontimeupdate: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var ontoggle: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onvolumechange: ((Event)
-> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onwaiting: ((Event) ->
dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var ongotpointercapture:
((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onlostpointercapture: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onpointerdown: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onpointermove: ((PointerEvent) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onpointerup: ((PointerEvent) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n    var onpointercancel: ((PointerEvent) ->
dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onpointerover:
((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onpointerout: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
var onpointerenter: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onpointerleave: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\n**\n * Exposes the JavaScript
[WindowEventHandlers](https://developer.mozilla.org/en/docs/Web/API/WindowEventHandlers) to Kotlin\n
*\npublic external interface WindowEventHandlers {\n    var onafterprint: ((Event) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onbeforeprint: ((Event) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onbeforeunload: ((BeforeUnloadEvent) ->
String)?\n    get()
= definedExternally\n    set(value) = definedExternally\n    var onhashchange: ((HashChangeEvent) ->
dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onlanguagechange: ((Event)
-> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onmessage:
((MessageEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onoffline: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
ononline: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var

```

```

onpagehide: ((PageTransitionEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onpageshow: ((PageTransitionEvent) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onpopstate: ((PopStateEvent) -> dynamic)?\n    get()
= definedExternally\n    set(value) = definedExternally\n    var onrejectionhandled: ((Event) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n    var onstorage: ((StorageEvent) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n    var onunhandledrejection:
((PromiseRejectionEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
var onunload: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\npublic external interface DocumentAndElementEventHandlers {\n    var oncopy:
((ClipboardEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var oncut:
((ClipboardEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onpaste: ((ClipboardEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n**\n
```

\* Exposes the JavaScript

```

[WindowOrWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WindowOrWorkerGlobalScope)
to Kotlin\n *^\npublic external interface WindowOrWorkerGlobalScope {\n    val origin: String\n    val caches:
CacheStorage\n    fun btoa(data: String): String\n    fun atob(data: String): String\n    fun setTimeout(handler:
dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\n    fun clearTimeout(handle: Int =
definedExternally)\n    fun setInterval(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?):
Int\n    fun clearInterval(handle: Int = definedExternally)\n    fun createImageBitmap(image: ImageBitmapSource,
options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\n    fun createImageBitmap(image:
ImageBitmapSource, sx: Int, sy: Int, sw: Int, sh: Int, options: ImageBitmapOptions = definedExternally):
Promise<ImageBitmap>\n    fun fetch(input: dynamic, init: RequestInit = definedExternally):

```

Promise<Response>\n}\n\n\*\*\n \* Exposes the JavaScript

```

[Navigator](https://developer.mozilla.org/en/docs/Web/API/Navigator) to Kotlin\n *^\npublic external abstract class
Navigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorContentUtils, NavigatorCookies,
NavigatorPlugins, NavigatorConcurrentHardware {\n    open val clipboard: Clipboard\n    open val mediaDevices:
MediaDevices\n    open val maxTouchPoints: Int\n    open val serviceWorker: ServiceWorkerContainer\n    fun
getUserMedia(constraints: MediaStreamConstraints, successCallback: (MediaStream) -> Unit, errorCallback:
(dynamic) -> Unit)\n    fun vibrate(pattern: dynamic): Boolean\n}\n\n**\n * Exposes the JavaScript
```

```

[NavigatorID](https://developer.mozilla.org/en/docs/Web/API/NavigatorID) to Kotlin\n *^\npublic external interface
NavigatorID {\n    val appCodeName: String\n    val appName: String\n    val appVersion: String\n    val platform:
String\n    val product: String\n    val productSub: String\n
```

```

    val userAgent: String\n    val vendor: String\n    val vendorSub: String\n    val oscpu: String\n    fun
taintEnabled(): Boolean\n}\n\n**\n * Exposes the JavaScript
```

```

[NavigatorLanguage](https://developer.mozilla.org/en/docs/Web/API/NavigatorLanguage) to Kotlin\n *^\npublic
external interface NavigatorLanguage {\n    val language: String\n    val languages: Array<out String>\n}\n\npublic
external interface NavigatorContentUtils {\n    fun registerProtocolHandler(scheme: String, url: String, title:
String)\n    fun registerContentHandler(mimeType: String, url: String, title: String)\n    fun
isProtocolHandlerRegistered(scheme: String, url: String): String\n    fun isContentHandlerRegistered(mimeType:
String, url: String): String\n    fun unregisterProtocolHandler(scheme: String, url: String)\n    fun
unregisterContentHandler(mimeType: String, url: String)\n}\n\npublic external interface NavigatorCookies {\n    val
cookieEnabled: Boolean\n}\n\n**\n * Exposes the JavaScript
```

```

[NavigatorPlugins](https://developer.mozilla.org/en/docs/Web/API/NavigatorPlugins)
```

```

to Kotlin\n *^\npublic external interface NavigatorPlugins {\n    val plugins: PluginArray\n    val mimeTypes:
MimeTypeArray\n    fun javaEnabled(): Boolean\n}\n\n**\n * Exposes the JavaScript
```

```

[PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin\n *^\npublic external abstract
class PluginArray : ItemArrayLike<Plugin> {\n    fun refresh(reload: Boolean = definedExternally)\n    override fun
```

```

item(index: Int): Plugin? \n fun namedItem(name: String): Plugin? \n \n @kotlin.internal.InlineOnly \n public
inline operator fun PluginArray.get(index: Int): Plugin? =
asDynamic()[index] \n \n @kotlin.internal.InlineOnly \n public inline operator fun PluginArray.get(name: String):
Plugin? = asDynamic()[name] \n \n /** \n * Exposes the JavaScript
[MimeTypeArray](https://developer.mozilla.org/en/docs/Web/API/MimeTypeArray) to Kotlin \n * \n public external
abstract class MimeTypeArray : ItemArrayLike<MimeType>
{ \n override fun item(index: Int): MimeType? \n fun namedItem(name: String):
MimeType? \n \n @kotlin.internal.InlineOnly \n public inline operator fun MimeTypeArray.get(index: Int):
MimeType? = asDynamic()[index] \n \n @kotlin.internal.InlineOnly \n public inline operator fun
MimeTypeArray.get(name: String): MimeType? = asDynamic()[name] \n \n /** \n * Exposes the JavaScript
[Plugin](https://developer.mozilla.org/en/docs/Web/API/Plugin) to Kotlin \n * \n public external abstract class Plugin
: ItemArrayLike<MimeType> { \n open val name: String \n open val description: String \n open val filename:
String \n override fun item(index: Int): MimeType? \n fun namedItem(name: String):
MimeType? \n \n @kotlin.internal.InlineOnly \n public inline operator fun Plugin.get(index: Int): MimeType? =
asDynamic()[index] \n \n @kotlin.internal.InlineOnly \n public inline operator fun Plugin.get(name: String):
MimeType? = asDynamic()[name] \n \n /** \n * Exposes the JavaScript
[MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType)
to Kotlin \n * \n public external abstract class MimeType { \n open val type: String \n open val description:
String \n open val suffixes: String \n open val enabledPlugin: Plugin \n \n /** \n * Exposes the JavaScript
[ImageBitmap](https://developer.mozilla.org/en/docs/Web/API/ImageBitmap) to Kotlin \n * \n public external
abstract class ImageBitmap : CanvasImageSource, TexImageSource { \n open val width: Int \n open val height:
Int \n fun close() \n \n public external interface ImageBitmapOptions { \n var imageOrientation:
ImageOrientation? /* = ImageOrientation.NONE */ \n get() = definedExternally \n set(value) =
definedExternally \n var premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFAULT */ \n get() =
definedExternally \n set(value) = definedExternally \n var colorSpaceConversion: ColorSpaceConversion? /* =
ColorSpaceConversion.DEFAULT */ \n get() = definedExternally \n set(value) = definedExternally \n
var resizeMode: Int? \n get() = definedExternally \n set(value) = definedExternally \n var resizeMode:
Int? \n get() = definedExternally \n set(value) = definedExternally \n var resizeMode: Int? \n get() =
definedExternally \n set(value) = definedExternally \n var resizeMode: Int? \n get() = definedExternally \n
set(value) = definedExternally \n var resizeMode: Int? \n get() = definedExternally \n set(value) =
definedExternally \n } \n \n @kotlin.internal.InlineOnly \n public inline fun ImageBitmapOptions(imageOrientation:
ImageOrientation? = ImageOrientation.NONE, premultiplyAlpha: PremultiplyAlpha? =
PremultiplyAlpha.DEFAULT, colorSpaceConversion: ColorSpaceConversion? =
ColorSpaceConversion.DEFAULT, resizeMode: Int? = undefined, resizeMode: Int? = undefined, resizeMode:
Int? = undefined, resizeMode: Int? = undefined, resizeMode: Int? = undefined, resizeMode: Int? = undefined): ImageBitmapOptions { \n val o = js("{}") \n o["imageOrientation"]
= imageOrientation \n o["premultiplyAlpha"] = premultiplyAlpha \n o["colorSpaceConversion"] =
colorSpaceConversion \n o["resizeWidth"] = resizeMode \n o["resizeHeight"]
= resizeMode \n o["resizeQuality"] = resizeMode \n return o \n \n /** \n * Exposes the JavaScript
[MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin \n * \n public external open
class MessageEvent(type: String, eventInitDict: MessageEventInit = definedExternally) : Event { \n open val data:
Any? \n open val origin: String \n open val lastEventId: String \n open val source:
UnionMessagePortOrWindowProxy? \n open val ports: Array<out MessagePort> \n fun initMessageEvent(type:
String, bubbles: Boolean, cancelable: Boolean, data: Any?, origin: String, lastEventId: String, source:
UnionMessagePortOrWindowProxy?, ports: Array<MessagePort>) \n companion object { \n val NONE:
Short \n val CAPTURING_PHASE: Short \n val AT_TARGET: Short \n val BUBBLING_PHASE:
Short \n } \n \n public external interface MessageEventInit : EventInit { \n var data: Any? /* = null */ \n get()
= definedExternally \n
set(value) = definedExternally \n var origin: String? /* = "" */ \n get() = definedExternally \n
set(value) = definedExternally \n var lastEventId: String? /* = "" */ \n get() = definedExternally \n

```

```

set(value) = definedExternally\n    var source: UnionMessagePortOrWindowProxy? /* = null */\n        get() =
definedExternally\n        set(value) = definedExternally\n        var ports: Array<MessagePort>? /* = arrayOf() */\n
get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
MessageEventInit(data: Any? = null, origin: String? = \"\", lastEventId: String? = \"\", source:
UnionMessagePortOrWindowProxy? = null, ports: Array<MessagePort>? = arrayOf(), bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): MessageEventInit {\n    val o = js(\"({})\")\n
o[\"data\"] = data\n    o[\"origin\"] = origin\n    o[\"lastEventId\"] = lastEventId\n    o[\"source\"]
= source\n    o[\"ports\"] = ports\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n
o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin\n */\n\npublic external open
class EventSource(url: String, eventSourceInitDict: EventSourceInit = definedExternally) : EventTarget {\n    open
val url: String\n    open val withCredentials: Boolean\n    open val readyState: Short\n    var onopen: ((Event) ->
dynamic)?\n    var onmessage: ((MessageEvent) -> dynamic)?\n    var onerror: ((Event) -> dynamic)?\n    fun
close()\n\n    companion object {\n        val CONNECTING: Short\n        val OPEN: Short\n        val CLOSED:
Short\n    }\n}\n\npublic external interface EventSourceInit {\n    var withCredentials: Boolean? /* = false */\n
get() = definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
EventSourceInit(withCredentials:
Boolean? = false): EventSourceInit {\n    val o = js(\"({})\")\n    o[\"withCredentials\"] = withCredentials\n    return
o\n}\n\n/**\n * Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to
Kotlin\n */\n\npublic external open class WebSocket(url: String, protocols: dynamic = definedExternally) :
EventTarget {\n    open val url: String\n    open val readyState: Short\n    open val bufferedAmount: Number\n    var
onopen: ((Event) -> dynamic)?\n    var onerror: ((Event) -> dynamic)?\n    var onclose: ((Event) -> dynamic)?\n
open val extensions: String\n    open val protocol: String\n    var onmessage: ((MessageEvent) -> dynamic)?\n    var
binaryType: BinaryType\n    fun close(code: Short = definedExternally, reason: String = definedExternally)\n    fun
send(data: String)\n    fun send(data: Blob)\n    fun send(data: ArrayBuffer)\n    fun send(data:
ArrayBufferView)\n\n    companion object {\n        val CONNECTING: Short\n
        val OPEN: Short\n        val CLOSING: Short\n        val CLOSED: Short\n    }\n}\n\n/**\n * Exposes the
JavaScript [CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to Kotlin\n */\n\npublic external
open class CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally) : Event {\n    open val
wasClean: Boolean\n    open val code: Short\n    open val reason: String\n\n    companion object {\n        val NONE:
Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE:
Short\n    }\n}\n\npublic external interface CloseEventInit : EventInit {\n    var wasClean: Boolean? /* = false */\n
get() = definedExternally\n    set(value) = definedExternally\n    var code: Short? /* = 0 */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var reason: String? /* = \"\" */\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic
inline fun CloseEventInit(wasClean: Boolean? = false, code: Short? = 0, reason: String? = \"\", bubbles: Boolean? =
false, cancelable: Boolean? = false, composed: Boolean? = false): CloseEventInit {\n    val o = js(\"({})\")\n
o[\"wasClean\"] = wasClean\n    o[\"code\"] = code\n    o[\"reason\"] = reason\n    o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin\n */\n\npublic external
open class MessageChannel {\n    open val port1: MessagePort\n    open val port2: MessagePort\n}\n\n/**\n *
Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin\n
*/\n\npublic external abstract class MessagePort : EventTarget, UnionMessagePortOrWindowProxy,
UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\n    open var onmessage:
((MessageEvent) ->
dynamic)?\n    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n    fun start()\n
fun close()\n}\n\n/**\n * Exposes the JavaScript
[BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin\n */\n\npublic

```

```

external open class BroadcastChannel(name: String) : EventTarget {
    open val name: String
    var onmessage: ((MessageEvent) -> dynamic)?
    fun postMessage(message: Any?)
    fun close()
}

/** Exposes the JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin
 */
public external abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope,
GlobalPerformance {
    open val self: WorkerGlobalScope
    open val location: WorkerLocation
    open val navigator: WorkerNavigator
    open var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?
    open var onlanguagechange: ((Event) -> dynamic)?
    open var onoffline: ((Event) -> dynamic)?
    open var ononline: ((Event) -> dynamic)?
    open var onrejectionhandled: ((Event) -> dynamic)?
    open var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?
    fun importScripts(vararg urls: String)
}

/** Exposes the JavaScript [DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to Kotlin
 */
public external abstract class DedicatedWorkerGlobalScope : WorkerGlobalScope {
    open var onmessage: ((MessageEvent) -> dynamic)?
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
    fun close()
}

/** Exposes the JavaScript [SharedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/SharedWorkerGlobalScope) to Kotlin
 */
public external abstract class SharedWorkerGlobalScope : WorkerGlobalScope {
    open val name: String
    open val applicationCache: ApplicationCache
    open var onconnect: ((Event) -> dynamic)?
    fun close()
}

/** Exposes the JavaScript [AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin
 */
public external interface AbstractWorker {
    var onerror: ((Event) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
}

/** Exposes the JavaScript [Worker](https://developer.mozilla.org/en/docs/Web/API/Worker) to Kotlin
 */
public external open class Worker(scriptURL: String, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {
    var onmessage: ((MessageEvent) -> dynamic)?
    override var onerror: ((Event) -> dynamic)?
    fun terminate()
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
}

public external interface WorkerOptions {
    var type: WorkerType? /* = WorkerType.CLASSIC */
    get() = definedExternally
    set(value) = definedExternally
    var credentials: RequestCredentials? /* = RequestCredentials.OMIT */
    get() = definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun WorkerOptions(type: WorkerType? = WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT): WorkerOptions {
    val o = js("{}")
    o["type"] = type
    o["credentials"] = credentials
    return o
}

/** Exposes the JavaScript [SharedWorker](https://developer.mozilla.org/en/docs/Web/API/SharedWorker) to Kotlin
 */
public external open class SharedWorker(scriptURL: String, name: String = definedExternally, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {
    open val port: MessagePort
    override var onerror: ((Event) -> dynamic)?
}

/** Exposes the JavaScript [NavigatorConcurrentHardware](https://developer.mozilla.org/en/docs/Web/API/NavigatorConcurrentHardware) to Kotlin
 */
public external interface NavigatorConcurrentHardware {
    val hardwareConcurrency: Number
}

/** Exposes the JavaScript [WorkerNavigator](https://developer.mozilla.org/en/docs/Web/API/WorkerNavigator) to Kotlin
 */
public external abstract class WorkerNavigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorConcurrentHardware {
    open val serviceWorker: ServiceWorkerContainer
}

/** Exposes the JavaScript [WorkerLocation](https://developer.mozilla.org/en/docs/Web/API/WorkerLocation) to Kotlin
 */
public external abstract class WorkerLocation {
    open val href: String
    open val origin: String
    open val protocol: String
    open val host: String
    open val hostname: String
    open val port: String
    open val pathname: String
    open val search: String
    open val hash: String
}

/** Exposes the JavaScript [Storage](https://developer.mozilla.org/en/docs/Web/API/Storage) to Kotlin
 */
public external abstract class

```

```

Storage {
    open val length: Int
    fun key(index: Int): String?
    fun removeItem(key: String)
    fun clear()
    fun getItem(key:
String): String?
    fun setItem(key: String, value: String)
}
@kotlin.internal.InlineOnly
public inline
operator fun Storage.get(key: String): String? = asDynamic()[key]
@kotlin.internal.InlineOnly
public inline
operator fun Storage.set(key: String, value: String) { asDynamic()[key] = value }
/**
 * Exposes the JavaScript [WindowSessionStorage](https://developer.mozilla.org/en/docs/Web/API/WindowSessionStorage) to Kotlin
 */
public external interface WindowSessionStorage {
    val sessionStorage: Storage
}
/**
 * Exposes the JavaScript [WindowLocalStorage](https://developer.mozilla.org/en/docs/Web/API/WindowLocalStorage) to Kotlin
 */
public external interface WindowLocalStorage {
    val localStorage: Storage
}
/**
 * Exposes the JavaScript [StorageEvent](https://developer.mozilla.org/en/docs/Web/API/StorageEvent) to Kotlin
 */
public external open class StorageEvent(type: String, eventInitDict: StorageEventInit = definedExternally) : Event {
    open
    val key: String?
    open val oldValue: String?
    open val newValue: String?
    open val url: String
    open val storageArea: Storage?
    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}
public external interface
StorageEventInit : EventInit {
    var key: String? /* = null */
    get() = definedExternally
    set(value) =
definedExternally
    var oldValue: String? /* = null */
    get() = definedExternally
    set(value) =
definedExternally
    var newValue: String? /* = null */
    get() = definedExternally
    set(value) =
definedExternally
    var url: String? /* = "" */
    get() = definedExternally
    set(value) =
definedExternally
    var storageArea: Storage? /* = null */
    get() = definedExternally
    set(value) =
definedExternally
}
@kotlin.internal.InlineOnly
public inline fun StorageEventInit(key:
String? = null, oldValue: String? = null, newValue: String? = null, url: String? = "", storageArea: Storage? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): StorageEventInit {
    val o = js("{}")
    o["key"] = key
    o["oldValue"] = oldValue
    o["newValue"] = newValue
    o["url"] = url
    o["storageArea"] = storageArea
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}
public external abstract class HTMLAppletElement :
HTMLElement {
    open var align: String
    open var alt: String
    open var archive: String
    open var code:
String
    open var codeBase: String
    open var height: String
    open var hspace: Int
    open var name:
String
    open var _object: String
    open var vspace: Int
    open var width: String
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE:
Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
/**
 * Exposes the JavaScript [HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin
 */
public external abstract class HTMLMarqueeElement : HTMLElement {
    open var behavior: String
    open var bgColor: String
    open var direction: String
    open var height:
String
    open var hspace: Int
    open var loop: Int
    open var scrollAmount: Int
    open var scrollDelay: Int
    open var trueSpeed: Boolean
    open var vspace: Int
    open var width: String
    open var onbounce: ((Event) -
> dynamic)?
    open var onfinish: ((Event) -> dynamic)?
    open var onstart: ((Event) -> dynamic)?
    fun
start()
    fun stop()
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE:
Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val
}
}

```



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DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE:
Short\n    val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
    val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external
interface External {\n    fun AddSearchProvider()\n    fun IsSearchProviderInstalled()\n}\n\npublic external interface
EventInit {\n    var bubbles: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var cancelable: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var composed: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun EventInit(bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean?
= false): EventInit {\n    val o = js("{}")\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n
o["composed"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[CustomEvent](https://developer.mozilla.org/en/docs/Web/API/CustomEvent) to Kotlin\n */\n\npublic external open
class CustomEvent(type: String, eventInitDict: CustomEventInit = definedExternally) : Event {\n    open val detail:
Any?\n    fun initCustomEvent(type: String, bubbles: Boolean, cancelable: Boolean, detail: Any?)\n}\n\n    companion
object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface CustomEventInit : EventInit {\n    var detail: Any?
/* = null */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun CustomEventInit(detail: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): CustomEventInit {\n    val o = js("{}")\n    o["detail"] = detail\n    o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n    o["composed"] = composed\n    return o\n}\n}\n\npublic external interface
EventListenerOptions {\n    var capture: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun EventListenerOptions(capture: Boolean? =
false): EventListenerOptions {\n    val o = js("{}")\n    o["capture"] = capture\n    return o\n}\n}\n\npublic external
interface AddEventListenerOptions : EventListenerOptions {\n    var passive: Boolean? /* = false */\n        get() =
definedExternally\n        set(value) = definedExternally\n    var once: Boolean? /* = false */\n        get() =
definedExternally\n        set(value) = definedExternally\n}\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
AddEventListenerOptions(passive: Boolean? = false, once: Boolean?
= false, capture: Boolean? = false): AddEventListenerOptions {\n    val o = js("{}")\n    o["passive"] =
passive\n    o["once"] = once\n    o["capture"] = capture\n    return o\n}\n}\n\npublic external interface
NonElementParentNode {\n    fun getElementById(elementId: String): Element?\n}\n\n/**\n * Exposes the
JavaScript [DocumentOrShadowRoot](https://developer.mozilla.org/en/docs/Web/API/DocumentOrShadowRoot) to
Kotlin\n */\n\npublic external interface DocumentOrShadowRoot {\n    val fullscreenElement: Element?\n        get() =
definedExternally\n}\n\n/**\n * Exposes the JavaScript
[ParentNode](https://developer.mozilla.org/en/docs/Web/API/ParentNode) to Kotlin\n */\n\npublic external interface
ParentNode {\n    val children: HTMLCollection\n    val firstElementChild: Element?\n        get() =
definedExternally\n    val lastElementChild: Element?\n        get() = definedExternally\n    val childElementCount:
Int\n    fun prepend(vararg nodes: dynamic)\n    fun append(vararg
nodes: dynamic)\n    fun querySelector(selectors: String): Element?\n    fun querySelectorAll(selectors: String):
NodeList\n}\n\n/**\n * Exposes the JavaScript
[NonDocumentTypeChildNode](https://developer.mozilla.org/en/docs/Web/API/NonDocumentTypeChildNode) to
Kotlin\n */\n\npublic external interface NonDocumentTypeChildNode {\n    val previousElementSibling: Element?\n
        get() = definedExternally\n    val nextElementSibling: Element?\n        get() = definedExternally\n}\n\n/**\n *
Exposes the JavaScript [ChildNode](https://developer.mozilla.org/en/docs/Web/API/ChildNode) to Kotlin\n */\n\npublic
external interface ChildNode {\n    fun before(vararg nodes: dynamic)\n    fun after(vararg nodes:

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dynamic)\n fun replaceWith(vararg nodes: dynamic)\n fun remove()\n}\n\n/**\n * Exposes the JavaScript
[Slotable](https://developer.mozilla.org/en/docs/Web/API/Slotable) to Kotlin\n */\n\npublic external interface Slotable
{\n val assignedSlot: HTMLSlotElement?\n get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript [NodeList](https://developer.mozilla.org/en/docs/Web/API/NodeList) to Kotlin\n
*\n\npublic external abstract class NodeList : ItemArrayLike<Node> {\n override fun item(index: Int):
Node?\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun NodeList.get(index: Int): Node? =
asDynamic()[index]\n}\n\n/**\n * Exposes the JavaScript
[HTMLCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLCollection) to Kotlin\n */\n\npublic
external abstract class HTMLCollection : ItemArrayLike<Element>, UnionElementOrHTMLCollection {\n
override fun item(index: Int): Element?\n fun namedItem(name: String):
Element?\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun HTMLCollection.get(index: Int): Element?
= asDynamic()[index]\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun HTMLCollection.get(name:
String): Element? = asDynamic()[name]\n}\n\n/**\n * Exposes the JavaScript
[MutationObserver](https://developer.mozilla.org/en/docs/Web/API/MutationObserver)
to Kotlin\n */\n\npublic external open class MutationObserver(callback: (Array<MutationRecord>,
MutationObserver) -> Unit) {\n fun observe(target: Node, options: MutationObserverInit = definedExternally)\n
fun disconnect()\n fun takeRecords(): Array<MutationRecord>\n}\n\n/**\n * Exposes the JavaScript
[MutationObserverInit](https://developer.mozilla.org/en/docs/Web/API/MutationObserverInit) to Kotlin\n
*\n\npublic external interface MutationObserverInit {\n var childList: Boolean? /* = false */\n get() =
definedExternally\n set(value) = definedExternally\n var attributes: Boolean?\n get() =
definedExternally\n set(value) = definedExternally\n var characterData: Boolean?\n get() =
definedExternally\n set(value) = definedExternally\n var subtree: Boolean? /* = false */\n get() =
definedExternally\n set(value) = definedExternally\n var attributeOldValue: Boolean?\n get() =
definedExternally\n set(value) = definedExternally\n var characterDataOldValue: Boolean?\n get() =
definedExternally\n set(value) = definedExternally\n var attributeFilter: Array<String>?\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
MutationObserverInit(childList: Boolean? = false, attributes: Boolean? = undefined, characterData: Boolean? =
undefined, subtree: Boolean? = false, attributeOldValue: Boolean? = undefined, characterDataOldValue: Boolean? =
undefined, attributeFilter: Array<String>? = undefined): MutationObserverInit {\n val o = js("{}")\n
o["childList"] = childList\n o["attributes"] = attributes\n o["characterData"] = characterData\n
o["subtree"] = subtree\n o["attributeOldValue"] = attributeOldValue\n o["characterDataOldValue"] =
characterDataOldValue\n o["attributeFilter"] = attributeFilter\n return o\n}\n\n/**\n * Exposes
the JavaScript [MutationRecord](https://developer.mozilla.org/en/docs/Web/API/MutationRecord) to Kotlin\n
*\n\npublic external abstract class MutationRecord {\n open val type: String\n open val target: Node\n open val
addedNodes: NodeList\n open val removedNodes: NodeList\n open val previousSibling: Node?\n open val
nextSibling: Node?\n open val attributeName: String?\n open val attributeNamespace: String?\n open val
oldValue: String?\n}\n\n/**\n * Exposes the JavaScript
[Node](https://developer.mozilla.org/en/docs/Web/API/Node) to Kotlin\n */\n\npublic external abstract class Node :
EventTarget {\n open val nodeType: Short\n open val nodeName: String\n open val baseURI: String\n open
val isConnected: Boolean\n open val ownerDocument: Document?\n open val parentNode: Node?\n open val
parentElement: Element?\n open val childNodes: NodeList\n open val firstChild: Node?\n open val lastChild:
Node?\n open val previousSibling: Node?\n
open val nextSibling: Node?\n open val nodeValue: String?\n open val textContent: String?\n fun
getRootNode(options: GetRootNodeOptions = definedExternally): Node\n fun hasChildNodes(): Boolean\n fun
normalize()\n fun cloneNode(deep: Boolean = definedExternally): Node\n fun isEqualNode(otherNode: Node?):
Boolean\n fun isSameNode(otherNode: Node?): Boolean\n fun compareDocumentPosition(other: Node): Short\n
fun contains(other: Node?): Boolean\n fun lookupPrefix(namespace: String?): String?\n fun
lookupNamespaceURI(prefix: String?): String?\n fun isDefaultNamespace(namespace: String?): Boolean\n fun

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insertBefore(node: Node, child: Node?): Node\n fun appendChild(node: Node): Node\n fun replaceChild(node:
Node, child: Node): Node\n fun removeChild(child: Node): Node\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n
    val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface
GetRootNodeOptions {\n var composed: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun GetRootNodeOptions(composed: Boolean?
= false): GetRootNodeOptions {\n val o = js("{}")\n o["composed"] = composed\n return o}\n\n/**\n *
Exposes
the JavaScript [Document](https://developer.mozilla.org/en/docs/Web/API/Document) to Kotlin\n */\npublic
external open class Document : Node, GlobalEventHandlers, DocumentAndElementEventHandlers,
NonElementParentNode, DocumentOrShadowRoot, ParentNode, GeometryUtils {\n open val implementation:
DOMImplementation\n open val URL: String\n open val documentURI: String\n open val origin: String\n
open val compatMode: String\n open val characterSet: String\n open val charset: String\n open val
inputEncoding: String\n open val contentType: String\n open val doctype: DocumentType?\n open val
documentElement: Element?\n open val location: Location?\n var domain: String\n open val referrer: String\n
var cookie: String\n open val lastModified: String\n open val readyState: DocumentReadyState\n var title:
String\n var dir: String\n var body: HTMLElement?\n open val head: HTMLHeadElement?\n open val
images: HTMLCollection\n open
    val embeds: HTMLCollection\n open val plugins: HTMLCollection\n open val links: HTMLCollection\n
open val forms: HTMLCollection\n open val scripts: HTMLCollection\n open val currentScript:
HTMLScriptElement?\n open val defaultView: Window?\n open val activeElement: Element?\n var
designMode: String\n var onreadystatechange: ((Event) -> dynamic)?\n var fgColor: String\n var linkColor:
String\n var vlinkColor: String\n var alinkColor: String\n var bgColor: String\n open val anchors:
HTMLCollection\n open val applets: HTMLCollection\n open val all: HTMLAllCollection\n open val
scrollingElement: Element?\n open val styleSheets: StyleSheetList\n open val rootElement:
SVGElement?\n open val fullscreenEnabled: Boolean\n open val fullscreen: Boolean\n var
onfullscreenchange: ((Event) -> dynamic)?\n var onfullscreenerror: ((Event) -> dynamic)?\n override var
onabort: ((Event) -> dynamic)?\n override var onblur:
    ((FocusEvent) -> dynamic)?\n override var onCancel: ((Event) -> dynamic)?\n override var oncanplay: ((Event)
-> dynamic)?\n override var oncanplaythrough: ((Event) -> dynamic)?\n override var onChange: ((Event) ->
dynamic)?\n override var onclick: ((MouseEvent) -> dynamic)?\n override var onClose: ((Event) -> dynamic)?\n
override var oncontextmenu: ((MouseEvent) -> dynamic)?\n override var oncuechange: ((Event) -> dynamic)?\n
override var ondblclick: ((MouseEvent) -> dynamic)?\n override var ondrag: ((DragEvent) -> dynamic)?\n
override var ondragend: ((DragEvent) -> dynamic)?\n override var ondragenter: ((DragEvent) -> dynamic)?\n
override var ondragexit: ((DragEvent) -> dynamic)?\n override var ondragleave: ((DragEvent) -> dynamic)?\n
override var ondragover: ((DragEvent) -> dynamic)?\n override var ondragstart: ((DragEvent) -> dynamic)?\n
override var ondrop: ((DragEvent) -> dynamic)?\n override var ondurationchange: ((Event) ->
dynamic)?\n override var onemptied: ((Event) -> dynamic)?\n override var onended: ((Event) -> dynamic)?\n
override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n override var onfocus: ((FocusEvent) ->
dynamic)?\n override var oninput: ((InputEvent) -> dynamic)?\n override var oninvalid: ((Event) -> dynamic)?\n

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    override var onkeydown: ((KeyboardEvent) -> dynamic)?\n    override var onkeypress: ((KeyboardEvent) ->
dynamic)?\n    override var onkeyup: ((KeyboardEvent) -> dynamic)?\n    override var onload: ((Event) ->
dynamic)?\n    override var onloadeddata: ((Event) -> dynamic)?\n    override var onloadedmetadata: ((Event) ->
dynamic)?\n    override var onloadend: ((Event) -> dynamic)?\n    override var onloadstart: ((ProgressEvent) ->
dynamic)?\n    override var onmousedown: ((MouseEvent) -> dynamic)?\n    override var onmouseenter:
((MouseEvent) -> dynamic)?\n    override var onmouseleave: ((MouseEvent) -> dynamic)?\n    override var
onmousemove:
((MouseEvent) -> dynamic)?\n    override var onmouseout: ((MouseEvent) -> dynamic)?\n    override var
onmouseover: ((MouseEvent) -> dynamic)?\n    override var onmouseup: ((MouseEvent) -> dynamic)?\n    override
var onwheel: ((WheelEvent) -> dynamic)?\n    override var onpause: ((Event) -> dynamic)?\n    override var onplay:
((Event) -> dynamic)?\n    override var onplaying: ((Event) -> dynamic)?\n    override var onprogress:
((ProgressEvent) -> dynamic)?\n    override var onratechange: ((Event) -> dynamic)?\n    override var onreset:
((Event) -> dynamic)?\n    override var onresize: ((Event) -> dynamic)?\n    override var onscroll: ((Event) ->
dynamic)?\n    override var onseeked: ((Event) -> dynamic)?\n    override var onseeking: ((Event) -> dynamic)?\n
override var onselect: ((Event) -> dynamic)?\n    override var onshow: ((Event) -> dynamic)?\n    override var
onstalled: ((Event) -> dynamic)?\n    override var onsubmit: ((Event) -> dynamic)?\n    override var onsuspend:
((Event)
-> dynamic)?\n    override var ontimeupdate: ((Event) -> dynamic)?\n    override var ontoggle: ((Event) ->
dynamic)?\n    override var onvolumechange: ((Event) -> dynamic)?\n    override var onwaiting: ((Event) ->
dynamic)?\n    override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n    override var
onlostpointercapture: ((PointerEvent) -> dynamic)?\n    override var onpointerdown: ((PointerEvent) -> dynamic)?\n
override var onpointermove: ((PointerEvent) -> dynamic)?\n    override var onpointerup: ((PointerEvent) ->
dynamic)?\n    override var onpointercancel: ((PointerEvent) -> dynamic)?\n    override var onpointerover:
((PointerEvent) -> dynamic)?\n    override var onpointerout: ((PointerEvent) -> dynamic)?\n    override var
onpointerenter: ((PointerEvent) -> dynamic)?\n    override var onpointerleave: ((PointerEvent) -> dynamic)?\n
override var oncopy: ((ClipboardEvent) -> dynamic)?\n    override var oncut: ((ClipboardEvent) -> dynamic)?\n
override var onpaste: ((ClipboardEvent)
-> dynamic)?\n    override val fullscreenElement: Element?\n    override val children: HTMLCollection\n    override
val firstElementChild: Element?\n    override val lastElementChild: Element?\n    override val childElementCount:
Int\n    fun getElementsByTagName(qualifiedName: String): HTMLCollection\n    fun
getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\n    fun
getElementsByTagName(className: String): HTMLCollection\n    fun createElement(localName: String,
options: ElementCreationOptions = definedExternally): Element\n    fun createElementNS(namespace: String?,
qualifiedName: String, options: ElementCreationOptions = definedExternally): Element\n    fun
createDocumentFragment(): DocumentFragment\n    fun createTextNode(data: String): Text\n    fun
createCDATASection(data: String): CDATASection\n    fun createComment(data: String): Comment\n    fun
createProcessingInstruction(target: String, data: String): ProcessingInstruction\n
    fun importNode(node: Node, deep: Boolean = definedExternally): Node\n    fun adoptNode(node: Node): Node\n
fun createAttribute(localName: String): Attr\n    fun createAttributeNS(namespace: String?, qualifiedName: String):
Attr\n    fun createEvent(`interface`: String): Event\n    fun createRange(): Range\n    fun createNodeIterator(root:
Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): NodeIterator\n    fun
createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? =
definedExternally): NodeIterator\n    fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter:
NodeFilter? = definedExternally): TreeWalker\n    fun createTreeWalker(root: Node, whatToShow: Int =
definedExternally, filter: ((Node) -> Short)? = definedExternally): TreeWalker\n    fun
getElementsByTagName(elementName: String): NodeList\n    fun open(type: String = definedExternally, replace:
String = definedExternally): Document\n

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fun open(url: String, name: String, features: String): Window\n fun close()\n fun write(vararg text: String)\n
fun writeln(vararg text: String)\n fun hasFocus(): Boolean\n fun execCommand(commandId: String, showUI:
Boolean = definedExternally, value: String = definedExternally): Boolean\n fun
queryCommandEnabled(commandId: String): Boolean\n fun queryCommandIndeterm(commandId: String):
Boolean\n fun queryCommandState(commandId: String): Boolean\n fun queryCommandSupported(commandId:
String): Boolean\n fun queryCommandValue(commandId: String): String\n fun clear()\n fun captureEvents()\n
fun releaseEvents()\n fun elementFromPoint(x: Double, y: Double): Element?\n fun elementsFromPoint(x:
Double, y: Double): Array<Element>\n fun caretPositionFromPoint(x: Double, y: Double): CaretPosition?\n fun
createTouch(view: Window, target: EventTarget, identifier: Int, pageX: Int, pageY: Int, screenX: Int, screenY: Int):
Touch\n fun createTouchList(vararg
touches: Touch): TouchList\n fun exitFullscreen(): Promise<Unit>\n override fun getElementById(elementId:
String): Element?\n override fun prepend(vararg nodes: dynamic)\n override fun append(vararg nodes:
dynamic)\n override fun querySelector(selectors: String): Element?\n override fun querySelectorAll(selectors:
String): NodeList\n override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */):
Array<DOMQuad>\n override fun convertQuadFromNode(quad: dynamic, from: dynamic, options:
ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun convertRectFromNode(rect:
DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n
override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMPoint\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Document.get(name: String): dynamic =
asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[XMLDocument](https://developer.mozilla.org/en/docs/Web/API/XMLDocument) to Kotlin\n */\npublic external
open class XMLDocument : Document {\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface
ElementCreationOptions {\n var `is`: String?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ElementCreationOptions(`is`: String? =
undefined):
ElementCreationOptions {\n val o = js("{}")\n o["is"] = `is`\n return o\n}\n\n/**\n * Exposes the
JavaScript [DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to
Kotlin\n */\npublic external abstract class DOMImplementation {\n fun createDocument(qualifiedName:
String, publicId: String, systemId: String): DocumentType\n fun createDocument(namespace: String?,

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qualifiedName: String, doctype: DocumentType? = definedExternally): XMLDocument\n fun
createHTMLDocument(title: String = definedExternally): Document\n fun hasFeature(): Boolean\n}\n\n/**\n *
Exposes the JavaScript [DocumentType](https://developer.mozilla.org/en/docs/Web/API/DocumentType) to
Kotlin\n */\npublic external abstract class DocumentType : Node, ChildNode {\n open val name: String\n open
val publicId: String\n open val systemId: String\n\n companion object {\n val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment) to Kotlin\n */\npublic
external open class DocumentFragment : Node, NonElementParentNode, ParentNode {\n override val children:
HTMLCollection\n override val firstElementChild: Element?\n override
val lastElementChild: Element?\n override val childElementCount: Int\n override fun
getElementById(elementId: String): Element?\n override fun prepend(vararg nodes: dynamic)\n override fun
append(vararg nodes: dynamic)\n override fun querySelector(selectors: String): Element?\n override fun
querySelectorAll(selectors: String): NodeList\n\n companion object {\n val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS:
Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin\n */\npublic external open
class ShadowRoot : DocumentFragment, DocumentOrShadowRoot {\n open val mode: ShadowRootMode\n
open val host: Element\n override val fullscreenElement: Element?\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING:
Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val
DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the
JavaScript [Element](https://developer.mozilla.org/en/docs/Web/API/Element) to Kotlin\n */\npublic external
abstract class Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils,
UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEvent,
UnionElementOrProcessingInstruction {\n open val namespaceURI: String?\n open val prefix: String?\n open
val localName: String\n open val tagName: String\n open var id: String\n open var className: String\n open
val classList: DOMTokenList\n open var slot: String\n open val attributes: NamedNodeMap\n open val

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shadowRoot: ShadowRoot?
open val scrollTop: Double
open val scrollLeft: Double
open val scrollWidth: Int
open val scrollHeight: Int
open val clientTop: Int
open val clientLeft: Int
open val clientWidth: Int
open val clientHeight: Int
open val innerHTML: String
open val outerHTML: String
fun hasAttributes(): Boolean
fun getAttributeNames(): Array<String>
fun getAttribute(qualifiedName: String): String?
fun getAttributeNS(namespace: String?, localName: String): String?
fun setAttribute(qualifiedName: String, value: String)
fun setAttributeNS(namespace: String?, qualifiedName: String, value: String)
fun removeAttribute(qualifiedName: String)
fun removeAttributeNS(namespace: String?, localName: String)
fun hasAttribute(qualifiedName: String): Boolean
fun hasAttributeNS(namespace: String?, localName: String): Boolean
fun getAttributeNode(qualifiedName: String): Attr?
fun getAttributeNodeNS(namespace: String?, localName: String): Attr?
fun setAttributeNode(attr: Attr): Attr?
fun setAttributeNodeNS(attr: Attr): Attr?
fun removeAttributeNode(attr: Attr): Attr?
fun attachShadow(init: ShadowRootInit): ShadowRoot
fun closest(selectors: String): Element?
fun matches(selectors: String): Boolean
fun webkitMatchesSelector(selectors: String): Boolean
fun getElementsByTagName(qualifiedName: String): HTMLCollection
fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection
fun getElementsByClassName(classNames: String): HTMLCollection
fun insertAdjacentElement(where: String, element: Element): Element?
fun insertAdjacentText(where: String, data: String)
fun getClientRects(): Array<DOMRect>
fun getBoundingClientRect(): DOMRect
fun scrollIntoView()
fun scrollIntoView(arg: dynamic)
fun scroll(options: ScrollToOptions = definedExternally)
fun scroll(x: Double, y: Double)
fun scrollTo(options: ScrollToOptions = definedExternally)
fun scrollTo(x: Double, y: Double)
fun scrollBy(options: ScrollToOptions = definedExternally)
fun scrollBy(x: Double, y: Double)
fun insertAdjacentHTML(position: String, text: String)
fun setPointerCapture(pointerId: Int)
fun releasePointerCapture(pointerId: Int)
fun hasPointerCapture(pointerId: Int): Boolean
fun requestFullscreen(): Promise<Unit>
companion object {
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}
public external interface ShadowRootInit {
    var mode: ShadowRootMode?
    get() = definedExternally
    set(value) = definedExternally
}
@kotlin.internal.InlineOnly
public inline fun ShadowRootInit(mode: ShadowRootMode?): ShadowRootInit {
    val o = js("{}")
    o["mode"] = mode
    return o
}
/**
 * Exposes the JavaScript [NamedNodeMap](https://developer.mozilla.org/en/docs/Web/API/NamedNodeMap) to Kotlin
 */
public external abstract class NamedNodeMap : ItemArrayLike<Attr> {
    fun getNamedItemNS(namespace: String?, localName: String): Attr?
    fun setNamedItem(attr: Attr): Attr?
    fun setNamedItemNS(attr: Attr): Attr?
    fun removeNamedItem(qualifiedName: String): Attr?
    fun removeNamedItemNS(namespace: String?, localName: String): Attr?
    override fun item(index: Int): Attr?
    fun getNamedItem(qualifiedName: String): Attr?
}
@kotlin.internal.InlineOnly
public inline operator fun NamedNodeMap.get(index: Int): Attr? = asDynamic()[index]
@kotlin.internal.InlineOnly
public inline operator fun NamedNodeMap.get(qualifiedName: String): Attr? = asDynamic()[qualifiedName]
/**
 * Exposes the JavaScript [Attr](https://developer.mozilla.org/en/docs/Web/API/Attr) to Kotlin
 */
public external abstract class Attr : Node {
    open val namespaceURI: String?
    open val prefix: String?
    open val localName: String

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open val name: String\n open var value: String\n open val ownerElement: Element?\n open val specified:
Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE:
Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n
val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val
DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes
the JavaScript [CharacterData](https://developer.mozilla.org/en/docs/Web/API/CharacterData) to Kotlin\n
*/\npublic external abstract class CharacterData : Node, NonDocumentTypeChildNode, ChildNode {\n open var
data: String\n open val length: Int\n fun substringData(offset: Int, count: Int): String\n fun appendData(data:
String)\n fun insertData(offset: Int, data: String)\n fun deleteData(offset: Int, count: Int)\n fun
replaceData(offset: Int, count: Int, data: String)\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[Text](https://developer.mozilla.org/en/docs/Web/API/Text) to Kotlin\n */\npublic external open class Text(data:
String = definedExternally) : CharacterData, Slotable, GeometryUtils {\n open val wholeText: String\n
override val assignedSlot: HTMLSlotElement?\n override val previousElementSibling: Element?\n override
val nextElementSibling: Element?\n fun splitText(offset: Int): Text\n override fun getBoxQuads(options:
BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n override fun convertQuadFromNode(quad:
dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override
fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n override fun before(vararg nodes:
dynamic)\n override fun after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n
override fun remove()\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE:
Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[CDATASection](https://developer.mozilla.org/en/docs/Web/API/CDATASection) to Kotlin\n */\npublic external
open class CDATASection : Text {\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE:

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Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[ProcessingInstruction](https://developer.mozilla.org/en/docs/Web/API/ProcessingInstruction) to Kotlin \n
*\npublic external abstract class ProcessingInstruction : CharacterData, LinkStyle,
UnionElementOrProcessingInstruction { \n    open val target: String \n \n    companion object { \n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE:
Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[Comment](https://developer.mozilla.org/en/docs/Web/API/Comment) to Kotlin \n
*\npublic external open class
Comment(data: String = definedExternally) : CharacterData { \n    override val previousElementSibling: Element? \n
    override val nextElementSibling: Element? \n
        override fun before(vararg nodes: dynamic) \n    override fun after(vararg nodes: dynamic) \n    override fun
replaceWith(vararg nodes: dynamic) \n    override fun remove() \n \n    companion object { \n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[Range](https://developer.mozilla.org/en/docs/Web/API/Range)
to Kotlin \n
*\npublic external open class Range { \n    open val startContainer: Node \n    open val startOffset: Int \n
    open val endContainer: Node \n    open val endOffset: Int \n    open val collapsed: Boolean \n    open val
commonAncestorContainer: Node \n    fun setStart(node: Node, offset: Int) \n    fun setEnd(node: Node, offset: Int) \n
    fun setStartBefore(node: Node) \n    fun setStartAfter(node: Node) \n    fun setEndBefore(node: Node) \n    fun
setEndAfter(node: Node) \n    fun collapse(toStart: Boolean = definedExternally) \n    fun selectNode(node: Node) \n
    fun selectNodeContents(node: Node) \n    fun compareBoundaryPoints(how: Short, sourceRange: Range): Short \n
    fun deleteContents() \n    fun extractContents(): DocumentFragment \n    fun cloneContents(): DocumentFragment \n
    fun insertNode(node: Node) \n    fun surroundContents(newParent: Node) \n    fun cloneRange(): Range \n    fun
detach() \n    fun isPointInRange(node:
Node, offset: Int): Boolean \n    fun comparePoint(node: Node, offset: Int): Short \n    fun intersectsNode(node:
Node): Boolean \n    fun getClientRects(): Array<DOMRect> \n    fun getBoundingClientRect(): DOMRect \n    fun
createContextualFragment(fragment: String): DocumentFragment \n \n    companion object { \n    val

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START_TO_START: Short\n    val START_TO_END: Short\n    val END_TO_END: Short\n    val
END_TO_START: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[NodeIterator](https://developer.mozilla.org/en/docs/Web/API/NodeIterator) to Kotlin\n *\n\npublic external abstract
class NodeIterator {\n    open val root: Node\n    open val referenceNode: Node\n    open val
pointerBeforeReferenceNode: Boolean\n    open val whatToShow: Int\n    open val filter: NodeFilter?\n    fun
nextNode(): Node?\n    fun previousNode(): Node?\n    fun detach()\n}\n\n\n/**\n * Exposes the JavaScript
[TreeWalker](https://developer.mozilla.org/en/docs/Web/API/TreeWalker) to Kotlin\n *\n\npublic
external abstract class TreeWalker {\n    open val root: Node\n    open val whatToShow: Int\n    open val filter:
NodeFilter?\n    open var currentNode: Node\n    fun parentNode(): Node?\n    fun firstChild(): Node?\n    fun
lastChild(): Node?\n    fun previousSibling(): Node?\n    fun nextSibling(): Node?\n    fun previousNode(): Node?\n
fun nextNode(): Node?\n}\n\n\n/**\n * Exposes the JavaScript
[NodeFilter](https://developer.mozilla.org/en/docs/Web/API/NodeFilter) to Kotlin\n
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface NodeFilter {\n
fun acceptNode(node: Node): Short\n\n    companion object {\n        val FILTER_ACCEPT: Short\n        val
FILTER_REJECT: Short\n        val FILTER_SKIP: Short\n        val SHOW_ALL: Int\n        val
SHOW_ELEMENT: Int\n        val SHOW_ATTRIBUTE: Int\n        val SHOW_TEXT: Int\n        val
SHOW_CDATA_SECTION: Int\n        val SHOW_ENTITY_REFERENCE: Int\n        val SHOW_ENTITY: Int\n
        val SHOW_PROCESSING_INSTRUCTION:
Int\n        val SHOW_COMMENT: Int\n        val SHOW_DOCUMENT: Int\n        val
SHOW_DOCUMENT_TYPE: Int\n        val SHOW_DOCUMENT_FRAGMENT: Int\n        val
SHOW_NOTATION: Int\n    }\n}\n\n\n/**\n * Exposes the JavaScript
[DOMTokenList](https://developer.mozilla.org/en/docs/Web/API/DOMTokenList) to Kotlin\n *\n\npublic external
abstract class DOMTokenList : ItemArrayLike<String> {\n    open var value: String\n    fun contains(token: String):
Boolean\n    fun add(vararg tokens: String)\n    fun remove(vararg tokens: String)\n    fun toggle(token: String,
force: Boolean = definedExternally): Boolean\n    fun replace(token: String, newToken: String)\n    fun
supports(token: String): Boolean\n    override fun item(index: Int):
String?\n}\n\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun DOMTokenList.get(index: Int): String? =
asDynamic()[index]\n\n\n/**\n * Exposes the JavaScript
[DOMPointReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMPointReadOnly) to Kotlin\n
*\n\n\npublic external open class DOMPointReadOnly(x: Double, y: Double, z: Double, w: Double) {\n    open val x:
Double\n    open val y: Double\n    open val z: Double\n    open val w: Double\n    fun matrixTransform(matrix:
DOMMatrixReadOnly): DOMPoint\n}\n\n\n\n/**\n * Exposes the JavaScript
[DOMPoint](https://developer.mozilla.org/en/docs/Web/API/DOMPoint) to Kotlin\n *\n\n\npublic external open class
DOMPoint : DOMPointReadOnly {\n    constructor(point: DOMPointInit)\n    constructor(x: Double =
definedExternally, y: Double = definedExternally, z: Double = definedExternally, w: Double = definedExternally)\n
    override var x: Double\n    override var y: Double\n    override var z: Double\n    override var w:
Double\n}\n\n\n\n/**\n * Exposes the JavaScript
[DOMPointInit](https://developer.mozilla.org/en/docs/Web/API/DOMPointInit) to Kotlin\n *\n\n\npublic external
interface DOMPointInit {\n    var x: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n
    var y: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) = definedExternally\n    var z:
Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) = definedExternally\n    var w: Double? /* =
1.0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n\n\n@kotlin.internal.InlineOnly\n\npublic inline fun DOMPointInit(x: Double? = 0.0, y: Double?
= 0.0, z: Double? = 0.0, w: Double? = 1.0): DOMPointInit {\n    val o = js("{}")\n    o["x"] = x\n    o["y"] = y\n
o["z"] = z\n    o["w"] = w\n    return o\n}\n\n\n\n/**\n * Exposes the JavaScript
[DOMRect](https://developer.mozilla.org/en/docs/Web/API/DOMRect) to Kotlin\n *\n\n\npublic external open class
DOMRect(x: Double = definedExternally, y: Double = definedExternally, width: Double = definedExternally,

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height: Double = definedExternally) : DOMRectReadOnly {\n  override var x: Double\n  override var y: Double\n  override var width: Double\n  override var height:
Double\n}\n\n/**\n * Exposes the JavaScript
[DOMRectReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMRectReadOnly) to Kotlin\n */\npublic
external open class DOMRectReadOnly(x: Double, y: Double, width: Double, height: Double) {\n  open val x:
Double\n  open val y: Double\n  open val width: Double\n  open val height: Double\n  open val top: Double\n
open val right: Double\n  open val bottom: Double\n  open val left: Double\n}\n\npublic external interface
DOMRectInit {\n  var x: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var y: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var width: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var height: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun DOMRectInit(x:
Double? = 0.0, y: Double? = 0.0, width: Double? = 0.0, height: Double? = 0.0): DOMRectInit {\n  val o =
js("{}")\n  o["x"] = x\n  o["y"] = y\n  o["width"] = width\n  o["height"] = height\n  return
o\n}\n\npublic external interface DOMRectList : ItemArrayLike<DOMRect> {\n  override fun item(index: Int):
DOMRect?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMRectList.get(index: Int): DOMRect?
= asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[DOMQuad](https://developer.mozilla.org/en/docs/Web/API/DOMQuad) to Kotlin\n */\npublic external open class
DOMQuad {\n  constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit = definedExternally, p3:
DOMPointInit = definedExternally, p4: DOMPointInit = definedExternally)\n  constructor(rect: DOMRectInit)\n
open val p1: DOMPoint\n  open val p2: DOMPoint\n  open val p3: DOMPoint\n  open val p4: DOMPoint\n
open val bounds: DOMRectReadOnly\n}\n\n/**\n * Exposes the
JavaScript [DOMMatrixReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMMatrixReadOnly) to
Kotlin\n */\npublic external open class DOMMatrixReadOnly(numberSequence: Array<Double>) {\n  open val a:
Double\n  open val b: Double\n  open val c: Double\n  open val d: Double\n  open val e: Double\n  open val f:
Double\n  open val m11: Double\n  open val m12: Double\n  open val m13: Double\n  open val m14: Double\n
open val m21: Double\n  open val m22: Double\n  open val m23: Double\n  open val m24: Double\n  open val
m31: Double\n  open val m32: Double\n  open val m33: Double\n  open val m34: Double\n  open val m41:
Double\n  open val m42: Double\n  open val m43: Double\n  open val m44: Double\n  open val is2D:
Boolean\n  open val isIdentity: Boolean\n  fun translate(tx: Double, ty: Double, tz: Double = definedExternally):
DOMMatrix\n  fun scale(scale: Double, originX: Double = definedExternally, originY: Double =
definedExternally):
DOMMatrix\n  fun scale3d(scale: Double, originX: Double = definedExternally, originY: Double =
definedExternally, originZ: Double = definedExternally): DOMMatrix\n  fun scaleNonUniform(scaleX: Double,
scaleY: Double = definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally,
originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n  fun rotate(angle:
Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n  fun
rotateFromVector(x: Double, y: Double): DOMMatrix\n  fun rotateAxisAngle(x: Double, y: Double, z: Double,
angle: Double): DOMMatrix\n  fun skewX(sx: Double): DOMMatrix\n  fun skewY(sy: Double): DOMMatrix\n
fun multiply(other: DOMMatrix): DOMMatrix\n  fun flipX(): DOMMatrix\n  fun flipY(): DOMMatrix\n  fun
inverse(): DOMMatrix\n  fun transformPoint(point: DOMPointInit = definedExternally): DOMPoint\n  fun
toFloat32Array(): Float32Array\n  fun toFloat64Array():
Float64Array\n}\n\n/**\n * Exposes the JavaScript
[DOMMatrix](https://developer.mozilla.org/en/docs/Web/API/DOMMatrix) to Kotlin\n */\npublic external open
class DOMMatrix() : DOMMatrixReadOnly {\n  constructor(transformList: String)\n  constructor(other:
DOMMatrixReadOnly)\n  constructor(array32: Float32Array)\n  constructor(array64: Float64Array)\n
constructor(numberSequence: Array<Double>)\n  override var a: Double\n  override var b: Double\n  override
var c: Double\n  override var d: Double\n  override var e: Double\n  override var f: Double\n  override var m11:

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Double\n override var m12: Double\n override var m13: Double\n override var m14: Double\n override var m21: Double\n override var m22: Double\n override var m23: Double\n override var m24: Double\n override var m31: Double\n override var m32: Double\n override var m33: Double\n override var m34: Double\n override var m41: Double\n override var m42:

Double\n override var m43: Double\n override var m44: Double\n fun multiplySelf(other: DOMMatrix): DOMMatrix\n fun preMultiplySelf(other: DOMMatrix): DOMMatrix\n fun translateSelf(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\n fun scaleSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun scale3dSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun scaleNonUniformSelf(scaleX: Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun rotateSelf(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun rotateFromVectorSelf(x: Double, y: Double): DOMMatrix\n fun rotateAxisAngleSelf(x: Double,

y: Double, z: Double, angle: Double): DOMMatrix\n fun skewXSelf(sx: Double): DOMMatrix\n fun skewYSelf(sy: Double): DOMMatrix\n fun invertSelf(): DOMMatrix\n fun setMatrixValue(transformList: String): DOMMatrix\n}\n\npublic external interface ScrollOptions {\n var behavior: ScrollBehavior? /\* = ScrollBehavior.AUTO \*/\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ScrollOptions(behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollOptions {\n val o = js("{}")\n o["behavior"] = behavior\n return o\n}\n\n/\*\*\n \* Exposes the JavaScript

[ScrollToOptions](https://developer.mozilla.org/en/docs/Web/API/ScrollToOptions) to Kotlin\n \*/\npublic external interface ScrollToOptions : ScrollOptions {\n var left: Double?\n get() = definedExternally\n set(value) = definedExternally\n var top: Double?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ScrollToOptions(left: Double? = undefined, top: Double? = undefined, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollToOptions {\n val o = js("{}")\n o["left"] = left\n o["top"] = top\n o["behavior"] = behavior\n return o\n}\n\n/\*\*\n \* Exposes the JavaScript

[MediaQueryList](https://developer.mozilla.org/en/docs/Web/API/MediaQueryList) to Kotlin\n \*/\npublic external abstract class MediaQueryList : EventTarget {\n open val media: String\n open val matches: Boolean\n open var onchange: ((Event) -> dynamic)?\n fun addListener(listener: EventListener?)\n fun addListener(listener: ((Event) -> Unit)?)\n fun removeListener(listener: EventListener?)\n fun removeListener(listener: ((Event) -> Unit)?)\n}\n\n/\*\*\n \* Exposes the JavaScript

[MediaQueryListEvent](https://developer.mozilla.org/en/docs/Web/API/MediaQueryListEvent) to Kotlin\n \*/\npublic external open class MediaQueryListEvent(type: String, eventInitDict: MediaQueryListEventInit = definedExternally) : Event {\n open val media: String\n open val matches: Boolean\n\n companion object {\n val NONE: Short\n val CAPTURING\_PHASE: Short\n val AT\_TARGET: Short\n val BUBBLING\_PHASE: Short\n }\n}\n\npublic external interface MediaQueryListEventInit : EventInit {\n var media: String? /\* = "" \*/\n get() = definedExternally\n set(value) = definedExternally\n var matches: Boolean? /\* = false \*/\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaQueryListEventInit(media: String? = "", matches: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MediaQueryListEventInit {\n val o = js("{}")\n o["media"] = media\n o["matches"] = matches\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/\*\*\n \* Exposes the JavaScript

[Screen](https://developer.mozilla.org/en/docs/Web/API/Screen) to Kotlin\n \*/\npublic external abstract class Screen {\n open val availWidth: Int\n open val availHeight: Int\n open val width: Int\n open val height: Int\n

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open val colorDepth: Int\n  open val pixelDepth: Int\n}\n\n/**\n * Exposes the JavaScript
[CaretPosition](https://developer.mozilla.org/en/docs/Web/API/CaretPosition) to Kotlin\n */\npublic external
abstract class CaretPosition {\n  open val offsetNode: Node\n  open val offset: Int\n  fun getClientRect():
DOMRect?\n}\n\npublic external interface ScrollIntoViewOptions : ScrollOptions {\n  var block:
ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var inline: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic
inline fun ScrollIntoViewOptions(block: ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, inline:
ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, behavior: ScrollBehavior? = ScrollBehavior.AUTO):
ScrollIntoViewOptions {\n  val o = js("{}")\n  o["block"] = block\n  o["inline"] = inline\n  o["behavior"]
= behavior\n  return o\n}\n\npublic external interface BoxQuadOptions {\n  var box: CSSBoxType? /* =
CSSBoxType.BORDER */\n    get() = definedExternally\n    set(value) = definedExternally\n  var relativeTo:
dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun BoxQuadOptions(box: CSSBoxType? =
CSSBoxType.BORDER, relativeTo: dynamic = undefined): BoxQuadOptions {\n  val o = js("{}")\n  o["box"] = box\n  o["relativeTo"] = relativeTo\n  return o\n}\n\npublic external interface
ConvertCoordinateOptions
{\n  var fromBox: CSSBoxType? /* = CSSBoxType.BORDER */\n    get() = definedExternally\n    set(value)
= definedExternally\n  var toBox: CSSBoxType? /* = CSSBoxType.BORDER */\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ConvertCoordinateOptions(fromBox: CSSBoxType? = CSSBoxType.BORDER, toBox: CSSBoxType? =
CSSBoxType.BORDER): ConvertCoordinateOptions {\n  val o = js("{}")\n  o["fromBox"] = fromBox\n  o["toBox"] = toBox\n  return o\n}\n\n/**\n * Exposes the JavaScript
[GeometryUtils](https://developer.mozilla.org/en/docs/Web/API/GeometryUtils) to Kotlin\n */\npublic external
interface GeometryUtils {\n  fun getBoxQuads(options: BoxQuadOptions = definedExternally):
Array<DOMQuad>\n  fun convertQuadFromNode(quad: dynamic, from: dynamic, options:
ConvertCoordinateOptions = definedExternally): DOMQuad\n  fun convertRectFromNode(rect:
DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions
= definedExternally): DOMQuad\n  fun convertPointFromNode(point: DOMPointInit, from: dynamic, options:
ConvertCoordinateOptions = definedExternally): DOMPoint\n}\n\n/**\n * Exposes the JavaScript
[Touch](https://developer.mozilla.org/en/docs/Web/API/Touch) to Kotlin\n */\npublic external abstract class Touch
{\n  open val identifier: Int\n  open val target: EventTarget\n  open val screenX: Int\n  open val screenY: Int\n  open val clientX: Int\n  open val clientY: Int\n  open val pageX: Int\n  open val pageY: Int\n  open val region:
String?\n}\n\npublic external abstract class TouchList : ItemArrayLike<Touch> {\n  override fun item(index: Int):
Touch?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun TouchList.get(index: Int): Touch? =
asDynamic()[index]\n\npublic external open class TouchEvent : UIEvent {\n  open val touches: TouchList\n  open val targetTouches: TouchList\n  open val changedTouches: TouchList\n  open val
altKey: Boolean\n  open val metaKey: Boolean\n  open val ctrlKey: Boolean\n  open val shiftKey: Boolean\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET:
Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[Image](https://developer.mozilla.org/en/docs/Web/API/Image) to Kotlin\n */\npublic external open class
Image(width: Int = definedExternally, height: Int = definedExternally) : HTMLElement {\n  override var
onabort: ((Event) -> dynamic)?\n  override var onblur: ((FocusEvent) -> dynamic)?\n  override var oncancel:
((Event) -> dynamic)?\n  override var oncanplay: ((Event) -> dynamic)?\n  override var oncanplaythrough:
((Event) -> dynamic)?\n  override var onchange: ((Event) -> dynamic)?\n  override var onclick: ((MouseEvent) ->
dynamic)?\n  override var onclose: ((Event) -> dynamic)?\n  override var oncontextmenu: ((MouseEvent) ->
dynamic)?\n  override var oncuechange:

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((Event) -> dynamic)?\n  override var ondblclick: ((MouseEvent) -> dynamic)?\n  override var ondrag:
((DragEvent) -> dynamic)?\n  override var ondragend: ((DragEvent) -> dynamic)?\n  override var ondragenter:
((DragEvent) -> dynamic)?\n  override var ondragexit: ((DragEvent) -> dynamic)?\n  override var ondragleave:
((DragEvent) -> dynamic)?\n  override var ondragover: ((DragEvent) -> dynamic)?\n  override var ondragstart:
((DragEvent) -> dynamic)?\n  override var ondrop: ((DragEvent) -> dynamic)?\n  override var ondurationchange:
((Event) -> dynamic)?\n  override var onemptied: ((Event) -> dynamic)?\n  override var onended: ((Event) ->
dynamic)?\n  override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n  override var onfocus:
((FocusEvent) -> dynamic)?\n  override var oninput: ((InputEvent) -> dynamic)?\n  override var oninvalid:
((Event) -> dynamic)?\n  override var onkeydown: ((KeyboardEvent) -> dynamic)?\n  override var onkeypress:
((KeyboardEvent) -> dynamic)?\n  override var onkeyup: ((KeyboardEvent) -> dynamic)?\n  override var onload:
((Event) -> dynamic)?\n  override var onloadeddata: ((Event) -> dynamic)?\n  override var onloadedmetadata:
((Event) -> dynamic)?\n  override var onloadend: ((Event) -> dynamic)?\n  override var onloadstart:
((ProgressEvent) -> dynamic)?\n  override var onmousedown: ((MouseEvent) -> dynamic)?\n  override var
onmouseenter: ((MouseEvent) -> dynamic)?\n  override var onmouseleave: ((MouseEvent) -> dynamic)?\n
override var onmousemove: ((MouseEvent) -> dynamic)?\n  override var onmouseout: ((MouseEvent) ->
dynamic)?\n  override var onmouseover: ((MouseEvent) -> dynamic)?\n  override var onmouseup: ((MouseEvent)
-> dynamic)?\n  override var onwheel: ((WheelEvent) -> dynamic)?\n  override var onpause: ((Event) ->
dynamic)?\n  override var onplay: ((Event) -> dynamic)?\n  override var onplaying: ((Event) -> dynamic)?\n
override var onprogress:
((ProgressEvent) -> dynamic)?\n  override var onratechange: ((Event) -> dynamic)?\n  override var onreset:
((Event) -> dynamic)?\n  override var onresize: ((Event) -> dynamic)?\n  override var onscroll: ((Event) ->
dynamic)?\n  override var onseeked: ((Event) -> dynamic)?\n  override var onseeking: ((Event) -> dynamic)?\n
override var onselect: ((Event) -> dynamic)?\n  override var onshow: ((Event) -> dynamic)?\n  override var
onstalled: ((Event) -> dynamic)?\n  override var onsubmit: ((Event) -> dynamic)?\n  override var onsuspend:
((Event) -> dynamic)?\n  override var ontimeupdate: ((Event) -> dynamic)?\n  override var ontoggle: ((Event) ->
dynamic)?\n  override var onvolumechange: ((Event) -> dynamic)?\n  override var onwaiting: ((Event) ->
dynamic)?\n  override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n  override var
onlostpointercapture: ((PointerEvent) -> dynamic)?\n  override var onpointerdown: ((PointerEvent) -> dynamic)?\n
  override var onpointermove: ((PointerEvent) -> dynamic)?\n  override var onpointerup: ((PointerEvent) ->
dynamic)?\n  override var onpointercancel: ((PointerEvent) -> dynamic)?\n  override var onpointerover:
((PointerEvent) -> dynamic)?\n  override var onpointerout: ((PointerEvent) -> dynamic)?\n  override var
onpointerenter: ((PointerEvent) -> dynamic)?\n  override var onpointerleave: ((PointerEvent) -> dynamic)?\n
override var oncopy: ((ClipboardEvent) -> dynamic)?\n  override var oncut: ((ClipboardEvent) -> dynamic)?\n
override var onpaste: ((ClipboardEvent) -> dynamic)?\n  override var contentEditable: String\n  override val
isContentEditable: Boolean\n  override val style: CSSStyleDeclaration\n  override val children:
HTMLCollection\n  override val firstElementChild: Element?\n  override val lastElementChild: Element?\n
override val childElementCount: Int\n  override val previousElementSibling: Element?\n  override val
nextElementSibling:
Element?\n  override val assignedSlot: HTMLSlotElement?\n  override fun prepend(vararg nodes: dynamic)\n
override fun append(vararg nodes: dynamic)\n  override fun querySelector(selectors: String): Element?\n
override fun querySelectorAll(selectors: String): NodeList\n  override fun before(vararg nodes: dynamic)\n
override fun after(vararg nodes: dynamic)\n  override fun replaceWith(vararg nodes: dynamic)\n  override fun
remove()\n  override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n
  override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n  override fun convertRectFromNode(rect: DOMRectReadOnly, from:
dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMPoint\n\n  companion

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object {
  val ELEMENT_NODE: Short
  val ATTRIBUTE_NODE: Short
  val TEXT_NODE: Short
  val CDATA_SECTION_NODE: Short
  val ENTITY_REFERENCE_NODE: Short
  val ENTITY_NODE: Short
  val PROCESSING_INSTRUCTION_NODE: Short
  val COMMENT_NODE: Short
  val DOCUMENT_NODE: Short
  val DOCUMENT_TYPE_NODE: Short
  val DOCUMENT_FRAGMENT_NODE: Short
  val NOTATION_NODE: Short
  val DOCUMENT_POSITION_DISCONNECTED: Short
  val DOCUMENT_POSITION_PRECEDING: Short
  val DOCUMENT_POSITION_FOLLOWING: Short
  val DOCUMENT_POSITION_CONTAINS: Short
  val DOCUMENT_POSITION_CONTAINED_BY: Short
  val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

public external open class
Audio(src: String = definedExternally) : HTMLAudioElement {
  override var onabort: ((Event) -> dynamic)?
  override var onblur: ((FocusEvent) -> dynamic)?
  override var oncancel: ((Event) -> dynamic)?
  override var oncanplay: ((Event) -> dynamic)?
  override var oncanplaythrough: ((Event) -> dynamic)?
  override var onchange: ((Event) -> dynamic)?
  override var onclick: ((MouseEvent) -> dynamic)?
  override var onclose: ((Event) -> dynamic)?
  override var oncontextmenu: ((MouseEvent) -> dynamic)?
  override var oncuechange: ((Event) -> dynamic)?
  override var ondblclick: ((MouseEvent) -> dynamic)?
  override var ondrag: ((DragEvent) -> dynamic)?
  override var ondragend: ((DragEvent) -> dynamic)?
  override var ondragenter: ((DragEvent) -> dynamic)?
  override var ondragexit: ((DragEvent) -> dynamic)?
  override var ondragleave: ((DragEvent) -> dynamic)?
  override var ondragover: ((DragEvent) -> dynamic)?
  override var ondragstart: ((DragEvent) -> dynamic)?
  override var ondrop: ((DragEvent) -> dynamic)?
  override var ondurationchange: ((Event) -> dynamic)?
  override var onemptied: ((Event) -> dynamic)?
  override var onended: ((Event) -> dynamic)?
  override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?
  override var onfocus: ((FocusEvent) -> dynamic)?
  override var oninput: ((InputEvent) -> dynamic)?
  override var oninvalid: ((Event) -> dynamic)?
  override var onkeydown: ((KeyboardEvent) -> dynamic)?
  override var onkeypress: ((KeyboardEvent) -> dynamic)?
  override var onkeyup: ((KeyboardEvent) -> dynamic)?
  override var onload: ((Event) -> dynamic)?
  override var onloadeddata: ((Event) -> dynamic)?
  override var onloadedmetadata: ((Event) -> dynamic)?
  override var onloadend: ((Event) -> dynamic)?
  override var onloadstart: ((ProgressEvent) -> dynamic)?
  override var onmousedown: ((MouseEvent) -> dynamic)?
  override var onmouseenter: ((MouseEvent) -> dynamic)?
  override var onmouseleave: ((MouseEvent) -> dynamic)?
  override var onmousemove: ((MouseEvent) -> dynamic)?
  override var onmouseout: ((MouseEvent) -> dynamic)?
  override var onmouseover: ((MouseEvent) -> dynamic)?
  override var onmouseup: ((MouseEvent) -> dynamic)?
  override var onwheel: ((WheelEvent) -> dynamic)?
  override var onpause: ((Event) -> dynamic)?
  override var onplay: ((Event) -> dynamic)?
  override var onplaying: ((Event) -> dynamic)?
  override var onprogress: ((ProgressEvent) -> dynamic)?
  override var onratechange: ((Event) -> dynamic)?
  override var onreset: ((Event) -> dynamic)?
  override var onresize: ((Event) -> dynamic)?
  override var onscroll: ((Event) -> dynamic)?
  override var onseeked: ((Event) -> dynamic)?
  override var onseeking: ((Event) -> dynamic)?
  override var onselect: ((Event) -> dynamic)?
  override var onshow: ((Event) -> dynamic)?
  override var onstalled: ((Event) -> dynamic)?
  override var onsubmit: ((Event) -> dynamic)?
  override var onsuspend: ((Event) -> dynamic)?
  override var ontimeupdate: ((Event) -> dynamic)?
  override var ontoggle: ((Event) -> dynamic)?
  override var onvolumechange: ((Event) -> dynamic)?
  override var onwaiting: ((Event) -> dynamic)?
  override var ongotpointercapture: ((PointerEvent) -> dynamic)?
  override var onlostpointercapture: ((PointerEvent) -> dynamic)?
  override var onpointerdown: ((PointerEvent) -> dynamic)?
  override var onpointermove: ((PointerEvent) -> dynamic)?
  override var onpointerup: ((PointerEvent) -> dynamic)?
  override var onpointercancel: ((PointerEvent) -> dynamic)?
  override var onpointerover: ((PointerEvent) -> dynamic)?
  override var onpointerout: ((PointerEvent) -> dynamic)?
  override var onpointerenter: ((PointerEvent) -> dynamic)?
  override var onpointerleave: ((PointerEvent) -> dynamic)?

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dynamic)?\n  override var oncopy: ((ClipboardEvent) -> dynamic)?\n  override var oncut: ((ClipboardEvent) ->
dynamic)?\n  override var onpaste: ((ClipboardEvent) -> dynamic)?\n  override var contentEditable: String\n
  override val isContentEditable: Boolean\n  override val style: CSSStyleDeclaration\n  override val children:
HTMLCollection\n  override val firstElementChild: Element?\n  override val lastElementChild: Element?\n
override val childElementCount: Int\n  override val previousElementSibling: Element?\n  override val
nextElementSibling: Element?\n  override val assignedSlot: HTMLSlotElement?\n  override fun prepend(vararg
nodes: dynamic)\n  override fun append(vararg nodes: dynamic)\n  override fun querySelector(selectors: String):
Element?\n  override fun querySelectorAll(selectors: String): NodeList\n  override fun before(vararg nodes:
dynamic)\n  override fun after(vararg nodes: dynamic)\n  override fun replaceWith(vararg nodes: dynamic)\n
override fun remove()\n  override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */):
Array<DOMQuad>\n  override fun convertQuadFromNode(quad: dynamic, from: dynamic, options:
ConvertCoordinateOptions
/* = definedExternally */): DOMQuad\n  override fun convertRectFromNode(rect: DOMRectReadOnly, from:
dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMPoint\n\n  companion object {\n    val NETWORK_EMPTY: Short\n    val
NETWORK_IDLE: Short\n    val NETWORK_LOADING: Short\n    val NETWORK_NO_SOURCE: Short\n
    val HAVE_NOTHING: Short\n    val HAVE_METADATA: Short\n    val HAVE_CURRENT_DATA:
Short\n    val HAVE_FUTURE_DATA: Short\n    val HAVE_ENOUGH_DATA: Short\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE:
Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n
val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n\n  /**\n * Exposes
the JavaScript [Option](https://developer.mozilla.org/en/docs/Web/API/Option) to Kotlin\n */\n\npublic external open
class Option(text: String = definedExternally, value: String = definedExternally, defaultSelected: Boolean =
definedExternally, selected: Boolean = definedExternally) : HTMLInputElement {\n  override var onabort:
((Event) -> dynamic)?\n  override var onblur: ((FocusEvent) -> dynamic)?\n  override var oncancel: ((Event) ->
dynamic)?\n  override var oncanplay: ((Event) -> dynamic)?\n  override var oncanplaythrough:
((Event) -> dynamic)?\n  override var onchange: ((Event) -> dynamic)?\n  override var onclick: ((MouseEvent) ->
dynamic)?\n  override var onclose: ((Event) -> dynamic)?\n  override var oncontextmenu: ((MouseEvent) ->
dynamic)?\n  override var oncuechange: ((Event) -> dynamic)?\n  override var ondblclick: ((MouseEvent) ->
dynamic)?\n  override var ondrag: ((DragEvent) -> dynamic)?\n  override var ondragend: ((DragEvent) ->
dynamic)?\n  override var ondragenter: ((DragEvent) -> dynamic)?\n  override var ondragexit: ((DragEvent) ->
dynamic)?\n  override var ondragleave: ((DragEvent) -> dynamic)?\n  override var ondragover: ((DragEvent) ->
dynamic)?\n  override var ondragstart: ((DragEvent) -> dynamic)?\n  override var ondrop: ((DragEvent) ->
dynamic)?\n  override var ondurationchange: ((Event) -> dynamic)?\n  override var onemptied: ((Event) ->
dynamic)?\n  override var onended: ((Event) -> dynamic)?\n  override var onerror: ((dynamic, String, Int,
Int, Any?) -> dynamic)?\n  override var onfocus: ((FocusEvent) -> dynamic)?\n  override var oninput:
((InputEvent) -> dynamic)?\n  override var oninvalid: ((Event) -> dynamic)?\n  override var onkeydown:
((KeyboardEvent) -> dynamic)?\n  override var onkeypress: ((KeyboardEvent) -> dynamic)?\n  override var
onkeyup: ((KeyboardEvent) -> dynamic)?\n  override var onload: ((Event) -> dynamic)?\n  override var
onloadeddata: ((Event) -> dynamic)?\n  override var onloadedmetadata: ((Event) -> dynamic)?\n  override var
onloadend: ((Event) -> dynamic)?\n  override var onloadstart: ((ProgressEvent) -> dynamic)?\n  override var

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```

onmousedown: ((MouseEvent) -> dynamic)?\n  override var onmouseenter: ((MouseEvent) -> dynamic)?\n
override var onmouseleave: ((MouseEvent) -> dynamic)?\n  override var onmousemove: ((MouseEvent) ->
dynamic)?\n  override var onmouseout: ((MouseEvent) -> dynamic)?\n  override var onmouseover:
((MouseEvent) -> dynamic)?\n  override var
onmouseup: ((MouseEvent) -> dynamic)?\n  override var onwheel: ((WheelEvent) -> dynamic)?\n  override var
onpause: ((Event) -> dynamic)?\n  override var onplay: ((Event) -> dynamic)?\n  override var onplaying: ((Event)
-> dynamic)?\n  override var onprogress: ((ProgressEvent) -> dynamic)?\n  override var onratechange: ((Event) ->
dynamic)?\n  override var onreset: ((Event) -> dynamic)?\n  override var onresize: ((Event) -> dynamic)?\n
override var onscroll: ((Event) -> dynamic)?\n  override var onseeked: ((Event) -> dynamic)?\n  override var
onseeking: ((Event) -> dynamic)?\n  override var onselect: ((Event) -> dynamic)?\n  override var onshow:
((Event) -> dynamic)?\n  override var onstalled: ((Event) -> dynamic)?\n  override var onsubmit: ((Event) ->
dynamic)?\n  override var onsuspend: ((Event) -> dynamic)?\n  override var ontimeupdate: ((Event) ->
dynamic)?\n  override var ontoggle: ((Event) -> dynamic)?\n  override var onvolumechange: ((Event)
-> dynamic)?\n  override var onwaiting: ((Event) -> dynamic)?\n  override var ongotpointercapture:
((PointerEvent) -> dynamic)?\n  override var onlostpointercapture: ((PointerEvent) -> dynamic)?\n  override var
onpointerdown: ((PointerEvent) -> dynamic)?\n  override var onpointermove: ((PointerEvent) -> dynamic)?\n
override var onpointerup: ((PointerEvent) -> dynamic)?\n  override var onpointercancel: ((PointerEvent) ->
dynamic)?\n  override var onpointerover: ((PointerEvent) -> dynamic)?\n  override var onpointerout:
((PointerEvent) -> dynamic)?\n  override var onpointerenter: ((PointerEvent) -> dynamic)?\n  override var
onpointerleave: ((PointerEvent) -> dynamic)?\n  override var oncopy: ((ClipboardEvent) -> dynamic)?\n  override
var oncut: ((ClipboardEvent) -> dynamic)?\n  override var onpaste: ((ClipboardEvent) -> dynamic)?\n  override
var contentEditable: String\n  override val isContentEditable: Boolean\n  override val style:
CSSStyleDeclaration\n
  override val children: HTMLCollection\n  override val firstElementChild: Element?\n  override val
lastElementChild: Element?\n  override val childElementCount: Int\n  override val previousElementSibling:
Element?\n  override val nextElementSibling: Element?\n  override val assignedSlot: HTMLSlotElement?\n
override fun prepend(vararg nodes: dynamic)\n  override fun append(vararg nodes: dynamic)\n  override fun
querySelector(selectors: String): Element?\n  override fun querySelectorAll(selectors: String): NodeList\n
override fun before(vararg nodes: dynamic)\n  override fun after(vararg nodes: dynamic)\n  override fun
replaceWith(vararg nodes: dynamic)\n  override fun remove()\n  override fun getBoxQuads(options:
BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n  override fun convertQuadFromNode(quad:
dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override
fun convertRectFromNode(rect:
DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n
override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMPoint\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short\n  }\n}\n\npublic external interface UnionElementOrHTMLCollection\n\npublic external interface
UnionElementOrRadioNodeList\n\npublic external interface
UnionHTMLOptGroupElementOrHTMLOptionElement\n\npublic external interface

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UnionAudioTrackOrTextTrackOrVideoTrack\n\npublic external interface UnionElementOrMouseEvent\n\n\npublic
external interface RenderingContext\n\n\npublic external interface HTMLOrSVGImageElement :
CanvasImageSource\n\n\npublic external interface CanvasImageSource : ImageBitmapSource\n\n\npublic external
interface ImageBitmapSource\n\n\npublic external interface UnionMessagePortOrWindowProxy\n\n\npublic external
interface HTMLOrSVGScriptElement\n\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\n\npublic external interface
DocumentReadyState {\n\n\ncompanion object\n\n}\n\n\npublic inline val DocumentReadyState.Companion.LOADING:
DocumentReadyState get() = "loading".asDynamic().unsafeCast<DocumentReadyState>()\n\n\npublic
inline val DocumentReadyState.Companion.INTERACTIVE: DocumentReadyState get() =
"interactive".asDynamic().unsafeCast<DocumentReadyState>()\n\n\npublic inline val
DocumentReadyState.Companion.COMPLETE: DocumentReadyState get() =
"complete".asDynamic().unsafeCast<DocumentReadyState>()\n\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\n\npublic external interface
CanPlayTypeResult {\n\n\ncompanion object\n\n}\n\n\npublic inline val CanPlayTypeResult.Companion.EMPTY:
CanPlayTypeResult get() = ""\n\n\n.asDynamic().unsafeCast<CanPlayTypeResult>()\n\n\npublic inline val
CanPlayTypeResult.Companion.MAYBE: CanPlayTypeResult get() =
"maybe".asDynamic().unsafeCast<CanPlayTypeResult>()\n\n\npublic inline val
CanPlayTypeResult.Companion.PROBABLY: CanPlayTypeResult get() =
"probably".asDynamic().unsafeCast<CanPlayTypeResult>()\n\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\n\npublic external interface
TextTrackMode {\n\n\ncompanion object\n\n}\n\n\npublic inline val TextTrackMode.Companion.DISABLED:
TextTrackMode get() = "disabled".asDynamic().unsafeCast<TextTrackMode>()\n\n\npublic inline val
TextTrackMode.Companion.HIDDEN: TextTrackMode get() =
"hidden".asDynamic().unsafeCast<TextTrackMode>()\n\n\npublic inline val
TextTrackMode.Companion.SHOWING: TextTrackMode get() =
"showing".asDynamic().unsafeCast<TextTrackMode>()\n\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\n\npublic external interface TextTrackKind
{\n\n\ncompanion object\n\n}\n\n\npublic inline val TextTrackKind.Companion.SUBTITLES: TextTrackKind get() =
"subtitles".asDynamic().unsafeCast<TextTrackKind>()\n\n\npublic inline val
TextTrackKind.Companion.CAPTIONS: TextTrackKind get() =
"captions".asDynamic().unsafeCast<TextTrackKind>()\n\n\npublic inline val
TextTrackKind.Companion.DESCRPTIONS: TextTrackKind get() =
"descriptions".asDynamic().unsafeCast<TextTrackKind>()\n\n\npublic
inline val TextTrackKind.Companion.CHAPTERS: TextTrackKind get() =
"chapters".asDynamic().unsafeCast<TextTrackKind>()\n\n\npublic inline val
TextTrackKind.Companion.METADATA: TextTrackKind get() =
"metadata".asDynamic().unsafeCast<TextTrackKind>()\n\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\n\npublic external interface SelectionMode
{\n\n\ncompanion object\n\n}\n\n\npublic inline val SelectionMode.Companion.SELECT: SelectionMode get() =
"select".asDynamic().unsafeCast<SelectionMode>()\n\n\npublic inline val SelectionMode.Companion.START:
SelectionMode get() = "start".asDynamic().unsafeCast<SelectionMode>()\n\n\npublic inline val
SelectionMode.Companion.END: SelectionMode get() =
"end".asDynamic().unsafeCast<SelectionMode>()\n\n\npublic inline val SelectionMode.Companion.PRESERVE:
SelectionMode get() = "preserve".asDynamic().unsafeCast<SelectionMode>()\n\n\n/* please, don't implement this
interface! *\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\n\npublic
external interface CanvasFillRule {\n\n\ncompanion object\n\n}\n\n\npublic inline val
CanvasFillRule.Companion.NONZERO: CanvasFillRule get() =
"nonzero".asDynamic().unsafeCast<CanvasFillRule>()\n\n\npublic inline val

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CanvasFillRule.Companion.EVENODD: CanvasFillRule get() =
  \"evenodd\".asDynamic().unsafeCast<CanvasFillRule>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
ImageSmoothingQuality {\n  companion object\n}\n\npublic inline val ImageSmoothingQuality.Companion.LOW:
ImageSmoothingQuality get() = \"low\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val
ImageSmoothingQuality.Companion.MEDIUM: ImageSmoothingQuality get() =
  \"medium\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val
ImageSmoothingQuality.Companion.HIGH: ImageSmoothingQuality get() =
  \"high\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\n/* please, don't implement
this interface! *\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
CanvasLineCap {\n  companion object\n}\n\npublic inline val CanvasLineCap.Companion.BUTT: CanvasLineCap
get() = \"butt\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val
CanvasLineCap.Companion.ROUND: CanvasLineCap get() =
  \"round\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val CanvasLineCap.Companion.SQUARE:
CanvasLineCap get() = \"square\".asDynamic().unsafeCast<CanvasLineCap>()\n\n/* please, don't implement this
interface! *\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
CanvasLineJoin {\n  companion object\n}\n\npublic inline val CanvasLineJoin.Companion.ROUND:
CanvasLineJoin get() = \"round\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val
CanvasLineJoin.Companion.BEVEL: CanvasLineJoin get() =
  \"bevel\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val CanvasLineJoin.Companion.MITER:
CanvasLineJoin
get() = \"miter\".asDynamic().unsafeCast<CanvasLineJoin>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CanvasTextAlign
{\n  companion object\n}\n\npublic inline val CanvasTextAlign.Companion.START: CanvasTextAlign get() =
  \"start\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.END:
CanvasTextAlign get() = \"end\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.LEFT: CanvasTextAlign get() =
  \"left\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.RIGHT:
CanvasTextAlign get() = \"right\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.CENTER: CanvasTextAlign get() =
  \"center\".asDynamic().unsafeCast<CanvasTextAlign>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
CanvasTextBaseline {\n  companion object\n}\n\npublic inline val CanvasTextBaseline.Companion.TOP:
CanvasTextBaseline get() = \"top\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.HANGING: CanvasTextBaseline get() =
  \"hanging\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.MIDDLE: CanvasTextBaseline get() =
  \"middle\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.ALPHABETIC: CanvasTextBaseline get() =
  \"alphabetic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.IDEOGRAPHIC: CanvasTextBaseline get() =
  \"ideographic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.BOTTOM: CanvasTextBaseline get() =
  \"bottom\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic
external interface CanvasDirection {\n  companion object\n}\n\npublic inline val
CanvasDirection.Companion.LTR: CanvasDirection get() =
  \"ltr\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val CanvasDirection.Companion.RTL:

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CanvasDirection get() = \"rtl\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val
CanvasDirection.Companion.INHERIT: CanvasDirection get() =
\"inherit\".asDynamic().unsafeCast<CanvasDirection>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface ScrollRestoration
{\n  companion object\n}\n\npublic inline val ScrollRestoration.Companion.AUTO: ScrollRestoration get() =
\"auto\".asDynamic().unsafeCast<ScrollRestoration>()\n\npublic inline val
ScrollRestoration.Companion.MANUAL: ScrollRestoration get() =
\"manual\".asDynamic().unsafeCast<ScrollRestoration>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic
external interface ImageOrientation {\n  companion object\n}\n\npublic inline val
ImageOrientation.Companion.NONE: ImageOrientation get() =
\"none\".asDynamic().unsafeCast<ImageOrientation>()\n\npublic inline val ImageOrientation.Companion.FLIPY:
ImageOrientation get() = \"flipY\".asDynamic().unsafeCast<ImageOrientation>()\n\n/* please, don't implement this
interface! *\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
PremultiplyAlpha {\n  companion object\n}\n\npublic inline val PremultiplyAlpha.Companion.NONE:
PremultiplyAlpha get() = \"none\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val
PremultiplyAlpha.Companion.PREMULTIPLY: PremultiplyAlpha get() =
\"premultiply\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val
PremultiplyAlpha.Companion.DEFAULT: PremultiplyAlpha get() =
\"default\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic
external interface ColorSpaceConversion {\n  companion object\n}\n\npublic inline val
ColorSpaceConversion.Companion.NONE: ColorSpaceConversion get() =
\"none\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\npublic inline val
ColorSpaceConversion.Companion.DEFAULT: ColorSpaceConversion get() =
\"default\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface ResizeQuality
{\n  companion object\n}\n\npublic inline val ResizeQuality.Companion.PIXELATED: ResizeQuality get() =
\"pixelated\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.LOW:
ResizeQuality get() = \"low\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val
ResizeQuality.Companion.MEDIUM: ResizeQuality get() =
\"medium\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.HIGH:
ResizeQuality
get() = \"high\".asDynamic().unsafeCast<ResizeQuality>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface BinaryType {\n
companion object\n}\n\npublic inline val BinaryType.Companion.BLOB: BinaryType get() =
\"blob\".asDynamic().unsafeCast<BinaryType>()\n\npublic inline val BinaryType.Companion.ARRAYBUFFER:
BinaryType get() = \"arraybuffer\".asDynamic().unsafeCast<BinaryType>()\n\n/* please, don't implement this
interface! *\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
WorkerType {\n  companion object\n}\n\npublic inline val WorkerType.Companion.CLASSIC: WorkerType get()
= \"classic\".asDynamic().unsafeCast<WorkerType>()\n\npublic inline val WorkerType.Companion.MODULE:
WorkerType get() = \"module\".asDynamic().unsafeCast<WorkerType>()\n\n/* please, don't implement this
interface! *\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
ShadowRootMode {\n  companion object\n}\n\npublic inline val ShadowRootMode.Companion.OPEN:
ShadowRootMode get() = \"open\".asDynamic().unsafeCast<ShadowRootMode>()\n\npublic inline val
ShadowRootMode.Companion.CLOSED: ShadowRootMode get() =
\"closed\".asDynamic().unsafeCast<ShadowRootMode>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface ScrollBehavior

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{\n  companion object\n}\n\npublic inline val ScrollBehavior.Companion.AUTO: ScrollBehavior get() =
\"auto\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val ScrollBehavior.Companion.INSTANT:
ScrollBehavior get() = \"instant\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val
ScrollBehavior.Companion.SMOOTH: ScrollBehavior get() =
\"smooth\".asDynamic().unsafeCast<ScrollBehavior>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
ScrollLogicalPosition {\n
    companion object\n}\n\npublic inline val ScrollLogicalPosition.Companion.START: ScrollLogicalPosition get()
= \"start\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.CENTER: ScrollLogicalPosition get() =
\"center\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.END: ScrollLogicalPosition get() =
\"end\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.NEAREST: ScrollLogicalPosition get() =
\"nearest\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface CSSBoxType {\n
    companion object\n}\n\npublic inline val CSSBoxType.Companion.MARGIN: CSSBoxType get() =
\"margin\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val CSSBoxType.Companion.BORDER:
CSSBoxType get() = \"border\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic
inline val CSSBoxType.Companion.PADDING: CSSBoxType get() =
\"padding\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val CSSBoxType.Companion.CONTENT:
CSSBoxType get() = \"content\".asDynamic().unsafeCast<CSSBoxType>()\n\n/*\n * Copyright 2010-2019 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-GENERATED,
DO NOT EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.fetch\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport
org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin\n *\n\npublic external open class
Headers(init: dynamic = definedExternally) {\n    fun append(name: String, value: String)\n    fun delete(name:
String)\n    fun get(name: String): String?\n    fun has(name: String): Boolean\n    fun set(name: String, value:
String)\n}\n\n/**\n * Exposes the JavaScript [Body](https://developer.mozilla.org/en/docs/Web/API/Body) to
Kotlin\n *\n\npublic external interface Body {\n    val bodyUsed: Boolean\n    fun arrayBuffer():
Promise<ArrayBuffer>\n    fun blob(): Promise<Blob>\n    fun formData(): Promise<FormData>\n    fun json():
Promise<Any?>\n    fun text(): Promise<String>\n}\n\n/**\n * Exposes the JavaScript
[Request](https://developer.mozilla.org/en/docs/Web/API/Request) to Kotlin\n *\n\npublic external open class
Request(input: dynamic, init: RequestInit = definedExternally)
: Body {\n    open val method: String\n    open val url: String\n    open val headers: Headers\n    open val type:
RequestType\n    open val destination: RequestDestination\n    open val referrer: String\n    open val referrerPolicy:
dynamic\n    open val mode: RequestMode\n    open val credentials: RequestCredentials\n    open val cache:
RequestCache\n    open val redirect: RequestRedirect\n    open val integrity: String\n    open val keepalive:
Boolean\n    override val bodyUsed: Boolean\n    fun clone(): Request\n    override fun arrayBuffer():
Promise<ArrayBuffer>\n    override fun blob(): Promise<Blob>\n    override fun formData():
Promise<FormData>\n    override fun json(): Promise<Any?>\n    override fun text(): Promise<String>\n}\n\n\npublic
external interface RequestInit {\n    var method: String?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var headers: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n

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var body: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n    var referrer: String?\n    get() = definedExternally\n    set(value) = definedExternally\n    var referrerPolicy: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n    var mode: RequestMode?\n    get() = definedExternally\n    set(value) = definedExternally\n    var credentials: RequestCredentials?\n    get() = definedExternally\n    set(value) = definedExternally\n    var cache: RequestCache?\n    get() = definedExternally\n    set(value) = definedExternally\n    var redirect: RequestRedirect?\n    get() = definedExternally\n    set(value) = definedExternally\n    var integrity: String?\n    get() = definedExternally\n    set(value) = definedExternally\n    var keepalive: Boolean?\n    get() = definedExternally\n    set(value) = definedExternally\n    var window: Any?\n    get() = definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun RequestInit(method: String? = undefined, headers: dynamic = undefined, body: dynamic = undefined, referrer: String? = undefined, referrerPolicy: dynamic = undefined, mode: RequestMode? = undefined, credentials: RequestCredentials? = undefined, cache: RequestCache? = undefined, redirect: RequestRedirect? = undefined, integrity: String? = undefined, keepalive: Boolean? = undefined, window: Any? = undefined): RequestInit {\n    val o = js("{}")\n    o["method"] = method\n    o["headers"] = headers\n    o["body"] = body\n    o["referrer"] = referrer\n    o["referrerPolicy"] = referrerPolicy\n    o["mode"] = mode\n    o["credentials"] = credentials\n    o["cache"] = cache\n    o["redirect"] = redirect\n    o["integrity"] = integrity\n    o["keepalive"] = keepalive\n    o["window"] = window\n    return o\n}\n\n/* Exposes the JavaScript [Response](https://developer.mozilla.org/en/docs/Web/API/Response) to Kotlin\n\npublic external open class Response(body: dynamic = definedExternally, init: ResponseInit = definedExternally) : Body {\n    open val type: ResponseType\n    open val url: String\n    open val redirected: Boolean\n    open val status: Short\n    open val ok: Boolean\n    open val statusText: String\n    open val headers: Headers\n    open val body: dynamic\n    open val trailer: Promise<Headers>\n    override val bodyUsed: Boolean\n    fun clone(): Response\n    override fun arrayBuffer(): Promise<ArrayBuffer>\n    override fun blob(): Promise<Blob>\n    override fun formData(): Promise<FormData>\n    override fun json(): Promise<Any?>\n    override fun text(): Promise<String>\n\n    companion object {\n        fun error(): Response\n        fun redirect(url: String, status: Short = definedExternally): Response\n    }\n\n    public external interface ResponseInit {\n        var status: Short? /* = 200 */\n        get() = definedExternally\n        set(value) = definedExternally\n        var statusText: String? /* = "OK" */\n        get() = definedExternally\n        set(value) = definedExternally\n        var headers: dynamic\n        get() = definedExternally\n        set(value) = definedExternally\n    }\n\n    @kotlin.internal.InlineOnly\n    public inline fun ResponseInit(status: Short? = 200, statusText: String? = "OK", headers: dynamic = undefined): ResponseInit {\n        val o = js("{}")\n        o["status"] = status\n        o["statusText"] = statusText\n        o["headers"] = headers\n        return o\n    }\n\n    /* please, don't implement this interface! */\n    @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n    public external interface RequestType {\n        companion object\n    }\n\n    public inline val RequestType.Companion.EMPTY: RequestType get() = "".asDynamic().unsafeCast<RequestType>()\n\n    public inline val RequestType.Companion.AUDIO: RequestType get() = "audio".asDynamic().unsafeCast<RequestType>()\n\n    public inline val RequestType.Companion.FONT: RequestType get() = "font".asDynamic().unsafeCast<RequestType>()\n\n    public inline val RequestType.Companion.IMAGE: RequestType get() = "image".asDynamic().unsafeCast<RequestType>()\n\n    public inline val RequestType.Companion.SCRIPT: RequestType get() = "script".asDynamic().unsafeCast<RequestType>()\n\n    public inline val RequestType.Companion.STYLE: RequestType get() = "style".asDynamic().unsafeCast<RequestType>()\n\n    public inline val RequestType.Companion.TRACK: RequestType get() = "track".asDynamic().unsafeCast<RequestType>()\n\n    public inline val RequestType.Companion.VIDEO: RequestType get() = "video".asDynamic().unsafeCast<RequestType>()\n\n    /* please, don't implement this interface! */\n    @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n    public external interface

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RequestDestination {
    companion object
}
public inline val RequestDestination.Companion.EMPTY:
RequestDestination get() = ""
.asDynamic().unsafeCast<RequestDestination>()
public inline val
RequestDestination.Companion.DOCUMENT:
RequestDestination get() = "document"
.asDynamic().unsafeCast<RequestDestination>()
public inline val
RequestDestination.Companion.EMBED: RequestDestination get() =
"embed"
.asDynamic().unsafeCast<RequestDestination>()
public inline val
RequestDestination.Companion.FONT: RequestDestination get() =
"font"
.asDynamic().unsafeCast<RequestDestination>()
public inline val
RequestDestination.Companion.IMAGE: RequestDestination get() =
"image"
.asDynamic().unsafeCast<RequestDestination>()
public inline val
RequestDestination.Companion.MANIFEST: RequestDestination get() =
"manifest"
.asDynamic().unsafeCast<RequestDestination>()
public inline val
RequestDestination.Companion.MEDIA: RequestDestination get() =
"media"
.asDynamic().unsafeCast<RequestDestination>()
public inline val
RequestDestination.Companion.OBJECT: RequestDestination get() =
"object"
.asDynamic().unsafeCast<RequestDestination>()
public inline val
RequestDestination.Companion.REPORT:
RequestDestination get() = "report"
.asDynamic().unsafeCast<RequestDestination>()
public inline val
RequestDestination.Companion.SCRIPT: RequestDestination get() =
"script"
.asDynamic().unsafeCast<RequestDestination>()
public inline val
RequestDestination.Companion.SERVICEWORKER: RequestDestination get() =
"serviceworker"
.asDynamic().unsafeCast<RequestDestination>()
public inline val
RequestDestination.Companion.SHAREDWORKER: RequestDestination get() =
"sharedworker"
.asDynamic().unsafeCast<RequestDestination>()
public inline val
RequestDestination.Companion.STYLE: RequestDestination get() =
"style"
.asDynamic().unsafeCast<RequestDestination>()
public inline val
RequestDestination.Companion.WORKER: RequestDestination get() =
"worker"
.asDynamic().unsafeCast<RequestDestination>()
public inline val
RequestDestination.Companion.XSLT: RequestDestination get() =
"xslt"
.asDynamic().unsafeCast<RequestDestination>()
/n/* please, don't implement this
interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface
RequestMode {
    companion object
}
public inline val RequestMode.Companion.NAVIGATE: RequestMode
get() = "navigate"
.asDynamic().unsafeCast<RequestMode>()
public inline val
RequestMode.Companion.SAME_ORIGIN: RequestMode get() = "same-
origin"
.asDynamic().unsafeCast<RequestMode>()
public inline val RequestMode.Companion.NO_CORS:
RequestMode get() = "no-cors"
.asDynamic().unsafeCast<RequestMode>()
public inline val
RequestMode.Companion.CORS: RequestMode get() = "cors"
.asDynamic().unsafeCast<RequestMode>()
/n/*
please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface
RequestCredentials {
    companion object
}
public inline val RequestCredentials.Companion.OMIT:
RequestCredentials get() = "omit"
.asDynamic().unsafeCast<RequestCredentials>()
public inline val
RequestCredentials.Companion.SAME_ORIGIN:
RequestCredentials get() = "same-origin"
.asDynamic().unsafeCast<RequestCredentials>()
public inline val
RequestCredentials.Companion.INCLUDE: RequestCredentials get() =
"include"
.asDynamic().unsafeCast<RequestCredentials>()
/n/* please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestCache
{
    companion object
}
public inline val RequestCache.Companion.DEFAULT: RequestCache get() =
"default"
.asDynamic().unsafeCast<RequestCache>()
public inline val RequestCache.Companion.NO_STORE:

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```

RequestCache get() = "no-store".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.RELOAD: RequestCache get() =
"reload".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.NO_CACHE:
RequestCache get() = "no-cache".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.FORCE_CACHE: RequestCache get() = "force-
cache".asDynamic().unsafeCast<RequestCache>()\n\npublic
inline val RequestCache.Companion.ONLY_IF_CACHED: RequestCache get() = "only-if-
cached".asDynamic().unsafeCast<RequestCache>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface RequestRedirect
{\n  companion object\n}\n\npublic inline val RequestRedirect.Companion.FOLLOW: RequestRedirect get() =
"follow".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val RequestRedirect.Companion.ERROR:
RequestRedirect get() = "error".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val
RequestRedirect.Companion.MANUAL: RequestRedirect get() =
"manual".asDynamic().unsafeCast<RequestRedirect>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface ResponseType
{\n  companion object\n}\n\npublic inline val ResponseType.Companion.BASIC: ResponseType get() =
"basic".asDynamic().unsafeCast<ResponseType>()\n\npublic
inline val ResponseType.Companion.CORS: ResponseType get() =
"cors".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.DEFAULT:
ResponseType get() = "default".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.ERROR: ResponseType get() =
"error".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.OPAQUE:
ResponseType get() = "opaque".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.OPAQUEREDIRECT: ResponseType get() =
"opaqueredirect".asDynamic().unsafeCast<ResponseType>()),"/*\n * Copyright 2010-2019 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.mediacapture\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[MediaStream](https://developer.mozilla.org/en/docs/Web/API/MediaStream) to Kotlin\n */\n\npublic external open
class MediaStream() : EventTarget {\n  constructor(stream: MediaStream)\n  constructor(tracks:
Array<MediaStreamTrack>)\n  open val id: String\n  open val active: Boolean\n  var onaddtrack:
((MediaStreamTrackEvent) -> dynamic)?\n  var onremovetrack: ((MediaStreamTrackEvent) -> dynamic)?\n  fun
getAudioTracks(): Array<MediaStreamTrack>\n  fun getVideoTracks(): Array<MediaStreamTrack>\n
  fun getTracks(): Array<MediaStreamTrack>\n  fun getTrackById(trackId: String): MediaStreamTrack?\n  fun
addTrack(track: MediaStreamTrack)\n  fun removeTrack(track: MediaStreamTrack)\n  fun clone():
MediaStream\n}\n\n/**\n * Exposes the JavaScript
[MediaStreamTrack](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrack) to Kotlin\n */\n\npublic
external abstract class MediaStreamTrack : EventTarget {\n  open val kind: String\n  open val id: String\n  open
val label: String\n  open var enabled: Boolean\n  open val muted: Boolean\n  open var onmute: ((Event) ->
dynamic)?\n  open var onunmute: ((Event) -> dynamic)?\n  open val readyState: MediaStreamTrackState\n
open var onended: ((Event) -> dynamic)?\n  open var onoverconstrained: ((Event) -> dynamic)?\n  fun clone():
MediaStreamTrack\n  fun stop()\n  fun getCapabilities(): MediaTrackCapabilities\n  fun getConstraints():
MediaTrackConstraints\n  fun getSettings(): MediaTrackSettings\n

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```

fun applyConstraints(constraints: MediaTrackConstraints = definedExternally): Promise<Unit>\n}\n\n/**\n *
Exposes the JavaScript
[MediaTrackSupportedConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSupportedConstrain
ts) to Kotlin\n *^\npublic external interface MediaTrackSupportedConstraints {\n  var width: Boolean? /* = true
*^\n  get() = definedExternally\n  set(value) = definedExternally\n  var height: Boolean? /* = true *^\n
get() = definedExternally\n  set(value) = definedExternally\n  var aspectRatio: Boolean? /* = true *^\n  get()
= definedExternally\n  set(value) = definedExternally\n  var frameRate: Boolean? /* = true *^\n  get() =
definedExternally\n  set(value) = definedExternally\n  var facingMode: Boolean? /* = true *^\n  get() =
definedExternally\n  set(value) = definedExternally\n  var resizeMode: Boolean? /* = true *^\n  get() =
definedExternally\n  set(value)
= definedExternally\n  var volume: Boolean? /* = true *^\n  get() = definedExternally\n  set(value) =
definedExternally\n  var sampleRate: Boolean? /* = true *^\n  get() = definedExternally\n  set(value) =
definedExternally\n  var sampleSize: Boolean? /* = true *^\n  get() = definedExternally\n  set(value) =
definedExternally\n  var echoCancellation: Boolean? /* = true *^\n  get() = definedExternally\n  set(value)
= definedExternally\n  var autoGainControl: Boolean? /* = true *^\n  get() = definedExternally\n  set(value)
= definedExternally\n  var noiseSuppression: Boolean? /* = true *^\n  get() = definedExternally\n
set(value) = definedExternally\n  var latency: Boolean? /* = true *^\n  get() = definedExternally\n
set(value) = definedExternally\n  var channelCount: Boolean? /* = true *^\n  get() = definedExternally\n
set(value) = definedExternally\n  var deviceId: Boolean?
/* = true *^\n  get() = definedExternally\n  set(value) = definedExternally\n  var groupId: Boolean? /* =
true *^\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackSupportedConstraints(width:
Boolean? = true, height: Boolean? = true, aspectRatio: Boolean? = true, frameRate: Boolean? = true, facingMode:
Boolean? = true, resizeMode: Boolean? = true, volume: Boolean? = true, sampleRate: Boolean? = true, sampleSize:
Boolean? = true, echoCancellation: Boolean? = true, autoGainControl: Boolean? = true, noiseSuppression: Boolean?
= true, latency: Boolean? = true, channelCount: Boolean? = true, deviceId: Boolean? = true, groupId: Boolean? =
true): MediaTrackSupportedConstraints {\n  val o = js("{}")\n  o["width"] = width\n  o["height"] =
height\n  o["aspectRatio"] = aspectRatio\n  o["frameRate"] = frameRate\n  o["facingMode"] = facingMode\n
o["resizeMode"]
= resizeMode\n  o["volume"] = volume\n  o["sampleRate"] = sampleRate\n  o["sampleSize"] =
sampleSize\n  o["echoCancellation"] = echoCancellation\n  o["autoGainControl"] = autoGainControl\n
o["noiseSuppression"] = noiseSuppression\n  o["latency"] = latency\n  o["channelCount"] = channelCount\n
o["deviceId"] = deviceId\n  o["groupId"] = groupId\n  return o}\n\npublic external interface
MediaTrackCapabilities {\n  var width: ULongRange?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var height: ULongRange?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var aspectRatio: DoubleRange?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var frameRate: DoubleRange?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var facingMode: Array<String>?\n  get() = definedExternally\n  set(value) =
definedExternally\n
var resizeMode: Array<String>?\n  get() = definedExternally\n  set(value) = definedExternally\n  var
volume: DoubleRange?\n  get() = definedExternally\n  set(value) = definedExternally\n  var sampleRate:
ULongRange?\n  get() = definedExternally\n  set(value) = definedExternally\n  var sampleSize:
ULongRange?\n  get() = definedExternally\n  set(value) = definedExternally\n  var echoCancellation:
Array<Boolean>?\n  get() = definedExternally\n  set(value) = definedExternally\n  var autoGainControl:
Array<Boolean>?\n  get() = definedExternally\n  set(value) = definedExternally\n  var noiseSuppression:
Array<Boolean>?\n  get() = definedExternally\n  set(value) = definedExternally\n  var latency:
DoubleRange?\n  get() = definedExternally\n  set(value) = definedExternally\n  var channelCount:
ULongRange?\n  get() = definedExternally\n  set(value) = definedExternally\n

```

```

var deviceId: String? \n    get() = definedExternally \n    set(value) = definedExternally \n    var groupId:
String? \n    get() = definedExternally \n    set(value) =
definedExternally \n} \n \n @kotlin.internal.InlineOnly \n public inline fun MediaTrackCapabilities(width:
ULongRange? = undefined, height: ULongRange? = undefined, aspectRatio: DoubleRange? = undefined,
frameRate: DoubleRange? = undefined, facingMode: Array<String>? = undefined, resizeMode: Array<String>? =
undefined, volume: DoubleRange? = undefined, sampleRate: ULongRange? = undefined, sampleSize:
ULongRange? = undefined, echoCancellation: Array<Boolean>? = undefined, autoGainControl: Array<Boolean>?
= undefined, noiseSuppression: Array<Boolean>? = undefined, latency: DoubleRange? = undefined, channelCount:
ULongRange? = undefined, deviceId: String? = undefined, groupId: String? = undefined): MediaTrackCapabilities
{ \n    val o = js("{}") \n    o["width"] = width \n    o["height"] = height \n    o["aspectRatio"]
= aspectRatio \n    o["frameRate"] = frameRate \n    o["facingMode"] = facingMode \n    o["resizeMode"] =
resizeMode \n    o["volume"] = volume \n    o["sampleRate"] = sampleRate \n    o["sampleSize"] = sampleSize \n
o["echoCancellation"] = echoCancellation \n    o["autoGainControl"] = autoGainControl \n
o["noiseSuppression"] = noiseSuppression \n    o["latency"] = latency \n    o["channelCount"] = channelCount \n
o["deviceId"] = deviceId \n    o["groupId"] = groupId \n    return o \n} \n \n /** \n * Exposes the JavaScript
[MediaTrackConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackConstraints) to Kotlin \n
*/ \n public external interface MediaTrackConstraints : MediaTrackConstraintSet { \n    var advanced:
Array<MediaTrackConstraintSet>? \n    get() = definedExternally \n    set(value) =
definedExternally \n} \n \n @kotlin.internal.InlineOnly \n public inline fun MediaTrackConstraints(advanced:
Array<MediaTrackConstraintSet>? = undefined, width:
dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined, frameRate: dynamic =
undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined,
sampleRate: dynamic = undefined, sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined,
autoGainControl: dynamic = undefined, noiseSuppression: dynamic = undefined, latency: dynamic = undefined,
channelCount: dynamic = undefined, deviceId: dynamic = undefined, groupId: dynamic = undefined):
MediaTrackConstraints { \n    val o = js("{}") \n    o["advanced"] = advanced \n    o["width"] = width \n
o["height"] = height \n    o["aspectRatio"] = aspectRatio \n    o["frameRate"] = frameRate \n    o["facingMode"]
= facingMode \n    o["resizeMode"] = resizeMode \n    o["volume"] = volume \n    o["sampleRate"] =
sampleRate \n    o["sampleSize"] = sampleSize \n    o["echoCancellation"] = echoCancellation \n
o["autoGainControl"] = autoGainControl \n
o["noiseSuppression"] = noiseSuppression \n    o["latency"] = latency \n    o["channelCount"] = channelCount \n
o["deviceId"] = deviceId \n    o["groupId"] = groupId \n    return o \n} \n \n public external interface
MediaTrackConstraintSet { \n    var width: dynamic \n    get() = definedExternally \n    set(value) =
definedExternally \n    var height: dynamic \n    get() = definedExternally \n    set(value) = definedExternally \n
var aspectRatio: dynamic \n    get() = definedExternally \n    set(value) = definedExternally \n    var frameRate:
dynamic \n    get() = definedExternally \n    set(value) = definedExternally \n    var facingMode: dynamic \n
get() = definedExternally \n    set(value) = definedExternally \n    var resizeMode: dynamic \n    get() =
definedExternally \n    set(value) = definedExternally \n    var volume: dynamic \n    get() = definedExternally \n
set(value) = definedExternally \n    var sampleRate: dynamic \n
get() = definedExternally \n    set(value) = definedExternally \n    var sampleSize: dynamic \n    get() =
definedExternally \n    set(value) = definedExternally \n    var echoCancellation: dynamic \n    get() =
definedExternally \n    set(value) = definedExternally \n    var autoGainControl: dynamic \n    get() =
definedExternally \n    set(value) = definedExternally \n    var noiseSuppression: dynamic \n    get() =
definedExternally \n    set(value) = definedExternally \n    var latency: dynamic \n    get() = definedExternally \n
set(value) = definedExternally \n    var channelCount: dynamic \n    get() = definedExternally \n    set(value) =
definedExternally \n    var deviceId: dynamic \n    get() = definedExternally \n    set(value) = definedExternally \n
var groupId: dynamic \n    get() = definedExternally \n    set(value) =
definedExternally \n} \n \n @kotlin.internal.InlineOnly \n public inline fun MediaTrackConstraintSet(width: dynamic

```



```

= false, composed: Boolean? = false): MediaStreamTrackEventInit {\n  val o = js("{}")\n  o["track"] =
track\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return
o}\n\npublic external open class OverconstrainedErrorEvent(type: String, eventInitDict:
OverconstrainedErrorEventInit) : Event {\n  open val error: dynamic\n\n  companion object {\n    val NONE:
Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE:
Short\n  }\n}\n\npublic external interface OverconstrainedErrorEventInit : EventInit {\n  var error: dynamic /* =
null */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun OverconstrainedErrorEventInit(error:
dynamic = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
OverconstrainedErrorEventInit {\n  val o = js("{}")\n  o["error"]
= error\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return
o}\n\n/**\n * Exposes the JavaScript
[MediaDevices](https://developer.mozilla.org/en/docs/Web/API/MediaDevices) to Kotlin\n */\npublic external
abstract class MediaDevices : EventTarget {\n  open var ondevicechange: ((Event) -> dynamic)?\n  fun
enumerateDevices(): Promise<Array<MediaDeviceInfo>>\n  fun getSupportedConstraints():
MediaTrackSupportedConstraints\n  fun getUserMedia(constraints: MediaStreamConstraints = definedExternally):
Promise<MediaStream>\n}\n\n/**\n * Exposes the JavaScript
[MediaDeviceInfo](https://developer.mozilla.org/en/docs/Web/API/MediaDeviceInfo) to Kotlin\n */\npublic
external abstract class MediaDeviceInfo {\n  open val deviceId: String\n  open val kind: MediaDeviceKind\n
open val label: String\n  open val groupId: String\n  fun toJSON(): dynamic\n}\n\npublic external abstract class
InputDeviceInfo : MediaDeviceInfo
{\n  fun getCapabilities(): MediaTrackCapabilities\n}\n\n/**\n * Exposes the JavaScript
[MediaStreamConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaStreamConstraints) to Kotlin\n
*/\npublic external interface MediaStreamConstraints {\n  var video: dynamic /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var audio: dynamic /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
MediaStreamConstraints(video: dynamic = false, audio: dynamic = false): MediaStreamConstraints {\n  val o =
js("{}")\n  o["video"] = video\n  o["audio"] = audio\n  return o}\n\npublic external interface
ConstrainablePattern {\n  var onoverconstrained: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  fun getCapabilities(): Capabilities\n  fun getConstraints(): Constraints\n  fun
getSettings():
Settings\n  fun applyConstraints(constraints: Constraints = definedExternally): Promise<Unit>\n}\n\n/**\n *
Exposes the JavaScript [DoubleRange](https://developer.mozilla.org/en/docs/Web/API/DoubleRange) to Kotlin\n
*/\npublic external interface DoubleRange {\n  var max: Double?\n  get() = definedExternally\n  set(value)
= definedExternally\n  var min: Double?\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun DoubleRange(max: Double? = undefined,
min: Double? = undefined): DoubleRange {\n  val o = js("{}")\n  o["max"] = max\n  o["min"] = min\n
return o}\n\npublic external interface ConstrainDoubleRange : DoubleRange {\n  var exact: Double?\n  get()
= definedExternally\n  set(value) = definedExternally\n  var ideal: Double?\n  get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainDoubleRange(exact:
Double? = undefined, ideal: Double? = undefined, max: Double? = undefined, min: Double? = undefined):
ConstrainDoubleRange {\n  val o = js("{}")\n  o["exact"] = exact\n  o["ideal"] = ideal\n  o["max"] =
max\n  o["min"] = min\n  return o}\n\npublic external interface ULongRange {\n  var max: Int?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var min: Int?\n  get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange(max: Int? =
undefined, min: Int? = undefined): ULongRange {\n  val o = js("{}")\n  o["max"] = max\n  o["min"] =
min\n  return o}\n\npublic external interface ConstrainULongRange : ULongRange {\n  var exact: Int?\n
get() = definedExternally\n  set(value) = definedExternally\n  var ideal: Int?\n  get() = definedExternally\n
}

```

```

    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic
inline fun ConstrainULongRange(exact: Int? = undefined, ideal: Int? = undefined, max: Int? = undefined, min: Int?
= undefined): ConstrainULongRange {\n    val o = js("{}")\n    o["exact"] = exact\n    o["ideal"] = ideal\n
o["max"] = max\n    o["min"] = min\n    return o\n}\n\n/**\n * Exposes the JavaScript
[ConstrainBooleanParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainBooleanParameters) to
Kotlin\n */\npublic external interface ConstrainBooleanParameters {\n    var exact: Boolean?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var ideal: Boolean?\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ConstrainBooleanParameters(exact: Boolean? = undefined, ideal: Boolean? = undefined):
ConstrainBooleanParameters {\n    val o = js("{}")\n    o["exact"] = exact\n    o["ideal"] = ideal\n    return
o\n}\n\n/**\n * Exposes
the JavaScript
[ConstrainDOMStringParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainDOMStringParameters)
to Kotlin\n */\npublic external interface ConstrainDOMStringParameters {\n    var exact: dynamic\n    get() =
definedExternally\n    set(value) = definedExternally\n    var ideal: dynamic\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ConstrainDOMStringParameters(exact: dynamic = undefined, ideal: dynamic = undefined):
ConstrainDOMStringParameters {\n    val o = js("{}")\n    o["exact"] = exact\n    o["ideal"] = ideal\n    return
o\n}\n\npublic external interface Capabilities\n\n@kotlin.internal.InlineOnly\npublic inline fun Capabilities():
Capabilities {\n    val o = js("{}")\n    return o\n}\n\npublic external interface
Settings\n\n@kotlin.internal.InlineOnly\npublic inline fun Settings(): Settings {\n    val o = js("{}")\n    return
o\n}\n\npublic external
interface ConstraintSet\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstraintSet(): ConstraintSet {\n    val o
= js("{}")\n    return o\n}\n\npublic external interface Constraints : ConstraintSet {\n    var advanced:
Array<ConstraintSet>?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun Constraints(advanced:
Array<ConstraintSet>? = undefined): Constraints {\n    val o = js("{}")\n    o["advanced"] = advanced\n
return o\n}\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
MediaStreamTrackState {\n    companion object\n}\n\npublic inline val MediaStreamTrackState.Companion.LIVE:
MediaStreamTrackState get() = "live".asDynamic().unsafeCast<MediaStreamTrackState>()\n\npublic inline val
MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() =
"ended".asDynamic().unsafeCast<MediaStreamTrackState>()\n\n/*
please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
VideoFacingModeEnum {\n    companion object\n}\n\npublic inline val
VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() =
"user".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val
VideoFacingModeEnum.Companion.ENVIRONMENT: VideoFacingModeEnum get() =
"environment".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val
VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() =
"left".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val
VideoFacingModeEnum.Companion.RIGHT: VideoFacingModeEnum get() =
"right".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
VideoResizeModeEnum {\n    companion object\n}\n\npublic inline val
VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get()

```

```

= \"none\".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\npublic inline val
VideoResizeModeEnum.Companion.CROP_AND_SCALE: VideoResizeModeEnum get() = \"crop-and-
scale\".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\n/* please, don't implement this interface!
*/\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
MediaDeviceKind {\n    companion object\n}\n\npublic inline val MediaDeviceKind.Companion.AUDIOINPUT:
MediaDeviceKind get() = \"audioinput\".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic inline val
MediaDeviceKind.Companion.AUDIOOUTPUT: MediaDeviceKind get() =
\"audiooutput\".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic inline val
MediaDeviceKind.Companion.VIDEOINPUT: MediaDeviceKind get() =
\"videoinput\".asDynamic().unsafeCast<MediaDeviceKind>()\n\n/*\n * Copyright 2010-2019 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt
file.\n *\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See github.com/kotlin/dukat for
details\n\npackage org.w3c.dom.pointerevents\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport
org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport
org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport
org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport
org.w3c.xhr.*\n\npublic external interface PointerEventInit : MouseEventInit {\n    var pointerId: Int? /* = 0 */\n
get() = definedExternally\n    set(value) = definedExternally\n    var width: Double? /* = 1.0 */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var height: Double? /* = 1.0 */\n    get() =
definedExternally\n    set(value)
= definedExternally\n    var pressure: Float? /* = 0f */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var tangentialPressure: Float? /* = 0f */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var tiltX: Int? /* = 0 */\n    get() = definedExternally\n    set(value) = definedExternally\n
    var tiltY: Int? /* = 0 */\n    get() = definedExternally\n    set(value) = definedExternally\n    var twist: Int? /* =
0 */\n    get() = definedExternally\n    set(value) = definedExternally\n    var pointerType: String? /* = \"\" */\n
get() = definedExternally\n    set(value) = definedExternally\n    var isPrimary: Boolean? /* = false */\n
get() = definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
PointerEventInit(pointerId: Int? = 0, width: Double? = 1.0, height: Double? = 1.0, pressure: Float? = 0f,
tangentialPressure: Float? =
0f, tiltX: Int? = 0, tiltY: Int? = 0, twist: Int? = 0, pointerType: String? = \"\", isPrimary: Boolean? = false, screenX:
Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget:
EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean?
= false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false,
modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false,
modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false,
modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PointerEventInit {\n    val o
= js(\"({})\")\n    o[\"pointerId\"] = pointerId\n    o[\"width\"] = width\n    o[\"height\"] = height\n
    o[\"pressure\"] = pressure\n    o[\"tangentialPressure\"] = tangentialPressure\n    o[\"tiltX\"] = tiltX\n    o[\"tiltY\"]
= tiltY\n    o[\"twist\"] = twist\n    o[\"pointerType\"] = pointerType\n    o[\"isPrimary\"] = isPrimary\n
    o[\"screenX\"] = screenX\n    o[\"screenY\"] = screenY\n    o[\"clientX\"] = clientX\n    o[\"clientY\"] = clientY\n
    o[\"button\"] = button\n    o[\"buttons\"] = buttons\n    o[\"relatedTarget\"] = relatedTarget\n    o[\"region\"] =
region\n    o[\"ctrlKey\"] = ctrlKey\n    o[\"shiftKey\"] = shiftKey\n    o[\"altKey\"] = altKey\n    o[\"metaKey\"] =
metaKey\n    o[\"modifierAltGraph\"] = modifierAltGraph\n    o[\"modifierCapsLock\"] = modifierCapsLock\n
    o[\"modifierFn\"] = modifierFn\n    o[\"modifierFnLock\"] = modifierFnLock\n    o[\"modifierHyper\"] =
modifierHyper\n    o[\"modifierNumLock\"] = modifierNumLock\n    o[\"modifierScrollLock\"] =

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modifierScrollLock\n o["modifierSuper"] = modifierSuper\n o["modifierSymbol"] = modifierSymbol\n
o["modifierSymbolLock"] = modifierSymbolLock\n o["view"] = view\n o["detail"] = detail\n
o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return
o\n}\n\n/**\n * Exposes the JavaScript
[PointerEvent](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin\n */\npublic external open
class PointerEvent(type: String, eventInitDict: PointerEventInit = definedExternally) : MouseEvent {\n open val
pointerId: Int\n open val width: Double\n open val height: Double\n open val pressure: Float\n open val
tangentialPressure: Float\n open val tiltX: Int\n open val tiltY: Int\n open val twist: Int\n open val
pointerType: String\n open val isPrimary: Boolean\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}"/**\n
* Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See
github.com/kotlin/dukat for details\n\npackage org.w3c.dom.svg\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin\n */\npublic external
abstract class SVGElement : Element, ElementCSSInlineStyle, GlobalEventHandlers, SVGElementInstance {\n
open val
dataset: DOMStringMap\n open val ownerSVGElement: SVGSVGElement?\n open val viewportElement:
SVGElement?\n open var tabIndex: Int\n fun focus()\n fun blur()\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface
SVGBoundingBoxOptions
{\n var fill: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n var
stroke: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var markers:
Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var clipped:
Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun SVGBoundingBoxOptions(fill: Boolean? =
true, stroke: Boolean? = false, markers: Boolean? = false, clipped: Boolean? = false): SVGBoundingBoxOptions {\n
val o = js("{}")\n o["fill"] = fill\n o["stroke"] = stroke\n o["markers"] = markers\n o["clipped"] =
clipped\n return o\n}\n\n/**\n * Exposes the JavaScript
[SVGGraphicsElement](https://developer.mozilla.org/en/docs/Web/API/SVGGraphicsElement) to Kotlin\n
*/\npublic external abstract class SVGGraphicsElement
: SVGElement, SVGTests {\n open val transform: SVGAnimatedTransformList\n fun getBBox(options:
SVGBoundingBoxOptions = definedExternally): DOMRect\n fun getCTM(): DOMMatrix?\n fun
getScreenCTM(): DOMMatrix?\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val

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ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGGeometryElement](https://developer.mozilla.org/en/docs/Web/API/SVGGeometryElement) to Kotlin\n
*/\npublic external abstract class SVGGeometryElement : SVGGraphicsElement {\n    open val pathLength:
SVGAnimatedNumber\n    fun isPointInFill(point: DOMPoint): Boolean\n    fun isPointInStroke(point: DOMPoint):
Boolean\n    fun getTotalLength(): Float\n    fun getPointAtLength(distance: Float): DOMPoint\n\n    companion
object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE:
Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING:
Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val
DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the
JavaScript [SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin\n
*/\npublic external abstract class SVGNumber {\n    open var value: Float\n}\n\n/**\n * Exposes the JavaScript
[SVGLength](https://developer.mozilla.org/en/docs/Web/API/SVGLength) to Kotlin\n
*/\npublic external abstract class SVGLength {\n    open val unitType: Short\n    open var value: Float\n    open var valueInSpecifiedUnits:
Float\n    open var valueAsString: String\n    fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits:
Float)\n    fun convertToSpecifiedUnits(unitType: Short)\n\n    companion object {\n        val
SVG_LENGTHTYPE_UNKNOWN: Short\n        val SVG_LENGTHTYPE_NUMBER: Short\n        val
SVG_LENGTHTYPE_PERCENTAGE:
Short\n        val SVG_LENGTHTYPE_EMS: Short\n        val SVG_LENGTHTYPE_EXS: Short\n        val
SVG_LENGTHTYPE_PX: Short\n        val SVG_LENGTHTYPE_CM: Short\n        val
SVG_LENGTHTYPE_MM: Short\n        val SVG_LENGTHTYPE_IN: Short\n        val SVG_LENGTHTYPE_PT:
Short\n        val SVG_LENGTHTYPE_PC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAngle) to Kotlin\n
*/\npublic external abstract class SVGAngle {\n    open val unitType: Short\n    open var value: Float\n    open var valueInSpecifiedUnits:
Float\n    open var valueAsString: String\n    fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits:
Float)\n    fun convertToSpecifiedUnits(unitType: Short)\n\n    companion object {\n        val
SVG_ANGLETYPE_UNKNOWN: Short\n        val SVG_ANGLETYPE_UNSPECIFIED: Short\n        val
SVG_ANGLETYPE_DEG: Short\n        val SVG_ANGLETYPE_RAD: Short\n        val
SVG_ANGLETYPE_GRAD: Short\n    }\n}\n\npublic
external abstract class SVGNameList {\n    open val length: Int\n    open val numberOfItems: Int\n    fun clear()\n
fun initialize(newItem: dynamic): dynamic\n    fun insertItemBefore(newItem: dynamic, index: Int): dynamic\n
fun replaceItem(newItem: dynamic, index: Int): dynamic\n    fun removeItem(index: Int): dynamic\n    fun
appendItem(newItem: dynamic): dynamic\n    fun getItem(index: Int):
dynamic\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.get(index: Int): dynamic =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.set(index: Int,
newItem: dynamic) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript

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[SVGNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGNumberList) to Kotlin\n \*\\npublic external abstract class SVGNumberList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: SVGNumber): SVGNumber\n fun insertItemBefore(newItem: SVGNumber, index: Int): SVGNumber\n fun replaceItem(newItem: SVGNumber, index: Int): SVGNumber\n fun removeItem(index: Int): SVGNumber\n fun appendItem(newItem: SVGNumber): SVGNumber\n fun getItem(index: Int): SVGNumber}\n\\n\\n@kotlin.internal.InlineOnly\\npublic inline operator fun SVGNumberList.get(index: Int): SVGNumber? = asDynamic()[index]\n\\n\\n@kotlin.internal.InlineOnly\\npublic inline operator fun SVGNumberList.set(index: Int, newItem: SVGNumber) { asDynamic()[index] = newItem }\n\\n\\n/\*\*\n \* Exposes the JavaScript [SVGLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGLengthList) to Kotlin\n \*\\npublic external abstract class SVGLengthList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: SVGLength): SVGLength\n fun insertItemBefore(newItem: SVGLength, index: Int): SVGLength\n fun replaceItem(newItem: SVGLength, index: Int): SVGLength\n fun removeItem(index: Int): SVGLength\n fun appendItem(newItem: SVGLength): SVGLength\n fun getItem(index: Int): SVGLength}\n\\n\\n@kotlin.internal.InlineOnly\\npublic inline operator fun SVGLengthList.get(index: Int): SVGLength? = asDynamic()[index]\n\\n\\n@kotlin.internal.InlineOnly\\npublic inline operator fun SVGLengthList.set(index: Int, newItem: SVGLength) { asDynamic()[index] = newItem }\n\\n\\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedBoolean](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedBoolean) to Kotlin\n \*\\npublic external abstract class SVGAnimatedBoolean {\n open var baseVal: Boolean\n open val animVal: Boolean}\n\\n\\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedEnumeration](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedEnumeration) to Kotlin\n \*\\npublic external abstract class SVGAnimatedEnumeration {\n open var baseVal: Short\n open val animVal: Short}\n\\n\\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedInteger](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedInteger) to Kotlin\n \*\\npublic external abstract class SVGAnimatedInteger {\n open var baseVal: Int\n open val animVal: Int}\n\\n\\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedNumber](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumber) to Kotlin\n \*\\npublic external abstract class SVGAnimatedNumber {\n open var baseVal: Float\n open val animVal: Float}\n\\n\\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedLength](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLength) to Kotlin\n \*\\npublic external abstract class SVGAnimatedLength {\n open val baseVal: SVGLength\n open val animVal: SVGLength}\n\\n\\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedAngle) to Kotlin\n \*\\npublic external abstract class SVGAnimatedAngle {\n open val baseVal: SVGAngle\n open val animVal: SVGAngle}\n\\n\\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedString](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedString) to Kotlin\n \*\\npublic external abstract class SVGAnimatedString {\n open var baseVal: String\n open val animVal: String}\n\\n\\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedRect](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedRect) to Kotlin\n \*\\npublic external abstract class SVGAnimatedRect {\n open val baseVal: DOMRect\n open val animVal: DOMRectReadOnly}\n\\n\\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumberList) to Kotlin\n \*\\npublic external abstract class SVGAnimatedNumberList {\n open val baseVal: SVGNumberList\n open val animVal: SVGNumberList}\n\\n\\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLengthList) to Kotlin\n \*\\npublic external abstract class SVGAnimatedLengthList {\n open val baseVal: SVGLengthList\n open val animVal: SVGLengthList}\n\\n\\n/\*\*\n \* Exposes the JavaScript

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[SVGStringList](https://developer.mozilla.org/en/docs/Web/API/SVGStringList)
to Kotlin\n *^public external abstract class SVGStringList {\n  open val length: Int\n  open val numberOfItems: Int\n  fun clear()\n  fun initialize(newItem: String): String\n  fun insertItemBefore(newItem: String, index: Int): String\n  fun replaceItem(newItem: String, index: Int): String\n  fun removeItem(index: Int): String\n  fun appendItem(newItem: String): String\n  fun getItem(index: Int): String\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.get(index: Int): String? =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.set(index: Int, newItem: String) { asDynamic()[index] = newItem }\n\n**\n * Exposes the JavaScript
[SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes) to Kotlin\n
*^@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface SVGUnitTypes
{\n  companion object {\n    val SVG_UNIT_TYPE_UNKNOWN: Short\n    val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n    val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n  }\n}\n\n**\n * Exposes the JavaScript
[SVGTTests](https://developer.mozilla.org/en/docs/Web/API/SVGTTests) to Kotlin\n *^public external interface SVGTTests {\n  val requiredExtensions: SVGStringList\n  val systemLanguage: SVGStringList\n}\n\npublic external interface SVGFitToViewBox {\n  val viewBox: SVGAnimatedRect\n  val preserveAspectRatio: SVGAnimatedPreserveAspectRatio\n}\n\n**\n * Exposes the JavaScript
[SVGZoomAndPan](https://developer.mozilla.org/en/docs/Web/API/SVGZoomAndPan) to Kotlin\n
*^@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface SVGZoomAndPan {\n  var zoomAndPan: Short\n\n  companion object {\n    val SVG_ZOOMANDPAN_UNKNOWN: Short\n    val SVG_ZOOMANDPAN_DISABLE: Short\n    val SVG_ZOOMANDPAN_MAGNIFY: Short\n  }\n}\n\n**\n * Exposes the JavaScript
[SVGURIReference](https://developer.mozilla.org/en/docs/Web/API/SVGURIReference)
to Kotlin\n *^public external interface SVGURIReference {\n  val href: SVGAnimatedString\n}\n\n**\n * Exposes the JavaScript
[SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to Kotlin\n
*^public external abstract class SVGSVGElement : SVGGraphicsElement, SVGFitToViewBox, SVGZoomAndPan, WindowEventHandlers {\n  open val x: SVGAnimatedLength\n  open val y: SVGAnimatedLength\n  open val width: SVGAnimatedLength\n  open val height: SVGAnimatedLength\n  open var currentScale: Float\n  open val currentTranslate: DOMPointReadOnly\n  fun getIntersectionList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList\n  fun getEnclosureList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList\n  fun checkIntersection(element: SVGElement, rect: DOMRectReadOnly): Boolean\n  fun checkEnclosure(element: SVGElement, rect: DOMRectReadOnly): Boolean\n  fun deselectAll()\n  fun createSVGNumber(): SVGNumber\n  fun createSVGLength(): SVGLength\n  fun createSVGAngle(): SVGAngle\n  fun createSVGPoint(): DOMPoint\n  fun createSVGMatrix(): DOMMatrix\n  fun createSVGRect(): DOMRect\n  fun createSVGTransform(): SVGTransform\n  fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\n  fun getElementById(elementId: String): Element\n  fun suspendRedraw(maxWaitMilliseconds: Int): Int\n  fun unsuspendRedraw(suspendHandleID: Int)\n  fun unsuspendRedrawAll()\n  fun forceRedraw()\n\n  companion object {\n    val SVG_ZOOMANDPAN_UNKNOWN: Short\n    val SVG_ZOOMANDPAN_DISABLE: Short\n    val SVG_ZOOMANDPAN_MAGNIFY: Short\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:

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Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [SVGGElement](https://developer.mozilla.org/en/docs/Web/API/SVGGElement) to Kotlin\n *\npublic external abstract class SVGGElement : SVGGraphicsElement {\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n    }\n}\n\npublic external abstract class SVGUnknownElement : SVGGraphicsElement {\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [SVGDefsElement](https://developer.mozilla.org/en/docs/Web/API/SVGDefsElement) to Kotlin\n *\npublic external abstract class SVGDefsElement : SVGGraphicsElement {\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [SVGDescElement](https://developer.mozilla.org/en/docs/Web/API/SVGDescElement) to Kotlin\n *\npublic external abstract class SVGDescElement : SVGElement {\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [SVGMetadataElement](https://developer.mozilla.org/en/docs/Web/API/SVGMetadataElement) to Kotlin\n *\npublic external abstract class SVGMetadataElement : SVGElement {\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n    }\n}\n

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CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING:
Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val
DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin\n *\npublic
external abstract class SVGTitleElement : SVGElement {\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [SVGSymbolElement](https://developer.mozilla.org/en/docs/Web/API/SVGSymbolElement) to
Kotlin\n *\npublic external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox {\n
    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n       
val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin\n
*\npublic external abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {\n    open val x:
SVGAnimatedLength\n    open val y: SVGAnimatedLength\n    open val width: SVGAnimatedLength\n    open val
height: SVGAnimatedLength\n    open val instanceRoot: SVGElement?\n    open val animatedInstanceRoot:
SVGElement?\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE:
Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external open class
SVGUseElementShadowRoot : ShadowRoot {\n    companion object {\n        val ELEMENT_NODE: Short\n
        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val

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PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external
interface SVGELEMENT_INSTANCE { \n    val correspondingElement: SVGELEMENT?\n    get() = definedExternally\n
val correspondingUseElement: SVGUSE_ELEMENT?\n    get() = definedExternally\n}\n}\n\npublic external open class
ShadowAnimation(source: dynamic, newTarget: dynamic) { \n    open val sourceAnimation: dynamic\n}\n}\n\n**\n *
Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement)
to Kotlin\n * \n\npublic external abstract class SVGSwitchElement : SVGGraphicsElement { \n    companion object
{ \n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n
        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
GetSVGDOCUMENT { \n    fun getSVGDocument(): Document\n}\n}\n\n**\n * Exposes the JavaScript
[SVGStyleElement](https://developer.mozilla.org/en/docs/Web/API/SVGStyleElement) to Kotlin\n * \n\npublic
external abstract class SVGStyleElement : SVGELEMENT, LinkStyle { \n    open var type: String\n    open var media:
String\n    open var title: String\n\n    companion object { \n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n}\n\n**\n * Exposes the JavaScript
[SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform) to Kotlin\n * \n\npublic external
abstract class SVGTransform { \n    open val type: Short\n    open val matrix: DOMMATRIX\n    open val angle:
Float\n
        fun setMatrix(matrix: DOMMATRIX_READ_ONLY)\n        fun setTranslate(tx: Float, ty: Float)\n        fun
setScale(sx: Float, sy: Float)\n        fun setRotate(angle: Float, cx: Float, cy: Float)\n        fun
setSkewX(angle: Float)\n        fun
setSkewY(angle: Float)\n\n        companion object { \n            val SVG_TRANSFORM_UNKNOWN: Short\n            val
SVG_TRANSFORM_MATRIX: Short\n            val SVG_TRANSFORM_TRANSLATE: Short\n            val
SVG_TRANSFORM_SCALE: Short\n            val SVG_TRANSFORM_ROTATE: Short\n            val
SVG_TRANSFORM_SKEWX: Short\n            val SVG_TRANSFORM_SKEWY: Short\n        }\n}\n}\n\n**\n * Exposes
the JavaScript [SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList) to Kotlin\n *
\n\npublic external abstract class SVGTransformList { \n    open val length: Int\n    open val numberOfItems: Int\n
fun clear()\n    fun initialize(newItem: SVGTransform): SVGTransform\n    fun insertItemBefore(newItem:
SVGTransform, index: Int): SVGTransform\n    fun replaceItem(newItem: SVGTransform,

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index: Int): SVGTransform\n fun removeItem(index: Int): SVGTransform\n fun appendItem(newItem:
SVGTransform): SVGTransform\n fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly):
SVGTransform\n fun consolidate(): SVGTransform?\n fun getItem(index: Int):
SVGTransform\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGTransformList.get(index: Int):
SVGTransform? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
SVGTransformList.set(index: Int, newItem: SVGTransform) { asDynamic()[index] = newItem }\n\n/**\n * Exposes
the JavaScript
[SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to
Kotlin\n *\npublic external abstract class SVGAnimatedTransformList {\n open val baseVal:
SVGTransformList\n open val animVal: SVGTransformList\n}\n\n/**\n * Exposes the JavaScript
[SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio) to Kotlin\n
*\npublic external abstract class SVGPreserveAspectRatio {\n open var align: Short\n open var meetOrSlice:
Short\n\n companion object {\n val SVG_PRESERVEASPECTRATIO_UNKNOWN: Short\n val
SVG_PRESERVEASPECTRATIO_NONE: Short\n val SVG_PRESERVEASPECTRATIO_XMINYMIN:
Short\n val SVG_PRESERVEASPECTRATIO_XMIDYMIN: Short\n val
SVG_PRESERVEASPECTRATIO_XMAXYMIN: Short\n val
SVG_PRESERVEASPECTRATIO_XMINYMID: Short\n val
SVG_PRESERVEASPECTRATIO_XMIDYMID: Short\n val
SVG_PRESERVEASPECTRATIO_XMAXYMID: Short\n val
SVG_PRESERVEASPECTRATIO_XMINYMAX: Short\n val
SVG_PRESERVEASPECTRATIO_XMIDYMAX: Short\n val SVG_MEETORSLICE_UNKNOWN: Short\n
val SVG_MEETORSLICE_MEET: Short\n val SVG_MEETORSLICE_SLICE: Short\n }\n}\n\n/**\n *
Exposes the JavaScript
[SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspect
Ratio)
to Kotlin\n *\npublic external abstract class SVGAnimatedPreserveAspectRatio {\n open val baseVal:
SVGPreserveAspectRatio\n open val animVal: SVGPreserveAspectRatio\n}\n\n/**\n * Exposes the JavaScript
[SVGPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGPathElement) to Kotlin\n *\npublic
external abstract class SVGPathElement : SVGGeometryElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes
the JavaScript
[SVGRectElement](https://developer.mozilla.org/en/docs/Web/API/SVGRectElement) to Kotlin\n
*\npublic external abstract class SVGRectElement : SVGGeometryElement {\n open val x:
SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val
height: SVGAnimatedLength\n open val rx: SVGAnimatedLength\n open val ry: SVGAnimatedLength\n\n
companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE:

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DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin\n */\npublic
external interface SVGAnimatedPoints {\n    val points: SVGPointList\n    val animatedPoints:
SVGPointList\n}\n\npublic external abstract
class SVGPointList {\n    open val length: Int\n    open val numberOfItems: Int\n    fun clear()\n    fun
initialize(newItem: DOMPoint): DOMPoint\n    fun insertItemBefore(newItem: DOMPoint, index: Int):
DOMPoint\n    fun replaceItem(newItem: DOMPoint, index: Int): DOMPoint\n    fun removeItem(index: Int):
DOMPoint\n    fun appendItem(newItem: DOMPoint): DOMPoint\n    fun getItem(index: Int):
DOMPoint\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGPointList.get(index: Int): DOMPoint?
= asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGPointList.set(index: Int,
newItem: DOMPoint) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGPolylineElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolylineElement) to Kotlin\n
*/\npublic external abstract class SVGPolylineElement : SVGGeometryElement, SVGAnimatedPoints {\n
companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n
    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGPolygonElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolygonElement) to Kotlin\n
*/\npublic external abstract class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints {\n
companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE:
Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement) to Kotlin\n
*/\npublic external abstract class SVGTextContentElement : SVGGraphicsElement {\n    open val textLength:
SVGAnimatedLength\n    open val lengthAdjust: SVGAnimatedEnumeration\n
    fun getNumberOfChars(): Int\n    fun getComputedTextLength(): Float\n    fun getSubStringLength(charnum: Int,
nchars: Int): Float\n    fun getStartPositionOfChar(charnum: Int): DOMPoint\n    fun
getEndPositionOfChar(charnum: Int): DOMPoint\n    fun getExtentOfChar(charnum: Int): DOMRect\n    fun
getRotationOfChar(charnum: Int): Float\n    fun getCharNumAtPosition(point: DOMPoint): Int\n    fun
selectSubString(charnum: Int, nchars: Int)\n\n    companion object {\n    val LENGTHADJUST_UNKNOWN:

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Short\n    val LENGTHADJUST_SPACING: Short\n    val LENGTHADJUST_SPACINGANDGLYPHS:
Short\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n
    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val
ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE:
Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript
[SVGTextPositioningElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPositioningElement) to
Kotlin\n */\npublic external abstract class SVGTextPositioningElement : SVGTextContentElement {\n    open val x:
SVGAnimatedLengthList\n    open val y: SVGAnimatedLengthList\n    open val dx: SVGAnimatedLengthList\n
open val dy: SVGAnimatedLengthList\n    open val rotate: SVGAnimatedNumberList\n\n    companion object {\n
    val LENGTHADJUST_UNKNOWN: Short\n    val LENGTHADJUST_SPACING: Short\n    val
LENGTHADJUST_SPACINGANDGLYPHS: Short\n    val ELEMENT_NODE: Short\n
    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE:
Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement) to Kotlin\n */\npublic
external abstract class SVGTextElement : SVGTextPositioningElement {\n    companion object {\n    val
LENGTHADJUST_UNKNOWN: Short\n
    val LENGTHADJUST_SPACING: Short\n    val LENGTHADJUST_SPACINGANDGLYPHS: Short\n
val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGTSpanElement](https://developer.mozilla.org/en/docs/Web/API/SVGTSpanElement) to Kotlin\n */\npublic
external abstract
class SVGTSpanElement : SVGTextPositioningElement {\n    companion object {\n    val
LENGTHADJUST_UNKNOWN: Short\n    val LENGTHADJUST_SPACING: Short\n    val
LENGTHADJUST_SPACINGANDGLYPHS: Short\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val

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DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val

DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }n}\n\n/\*\*\n \* Exposes the JavaScript [SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to Kotlin\n \*/\npublic external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {\n open val startOffset: SVGAnimatedLength\n open val method: SVGAnimatedEnumeration\n open val spacing: SVGAnimatedEnumeration\n\n companion object {\n val TEXTPATH\_METHODTYPE\_UNKNOWN: Short\n val TEXTPATH\_METHODTYPE\_ALIGN: Short\n val TEXTPATH\_METHODTYPE\_STRETCH: Short\n val TEXTPATH\_SPACINGTYPE\_UNKNOWN: Short\n val TEXTPATH\_SPACINGTYPE\_AUTO: Short\n val TEXTPATH\_SPACINGTYPE\_EXACT: Short\n val LENGTHADJUST\_UNKNOWN: Short\n val LENGTHADJUST\_SPACING: Short\n val LENGTHADJUST\_SPACINGANDGLYPHS: Short\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }n}\n\n/\*\*\n \* Exposes the JavaScript [SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin\n \*/\npublic external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference, HTMLOrSVGImageElement {\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n open val preserveAspectRatio: SVGAnimatedPreserveAspectRatio\n open var crossOrigin: String?\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }n}\n\n/\*\*\n \* Exposes the JavaScript [SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement) to Kotlin\n \*/\npublic external abstract class SVGForeignObjectElement : SVGGraphicsElement {\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n

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    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract class
SVGMarkerElement : SVGElement, SVGFitToViewBox {\n    open val refX: SVGAnimatedLength\n    open val
refY: SVGAnimatedLength\n    open val markerUnits: SVGAnimatedEnumeration\n    open val markerWidth:
SVGAnimatedLength\n    open val markerHeight: SVGAnimatedLength\n    open val orientType:
SVGAnimatedEnumeration\n    open val orientAngle: SVGAnimatedAngle\n    open var orient: String\n    fun
setOrientToAuto()\n    fun setOrientToAngle(angle: SVGAngle)\n\n    companion object {\n        val
SVG_MARKERUNITS_UNKNOWN: Short\n        val SVG_MARKERUNITS_USERSPACEONUSE: Short\n
val SVG_MARKERUNITS_STROKEWIDTH: Short\n        val SVG_MARKER_ORIENT_UNKNOWN: Short\n
val SVG_MARKER_ORIENT_AUTO: Short\n        val SVG_MARKER_ORIENT_ANGLE: Short\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE:
Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val
DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [SVGSolidcolorElement](https://developer.mozilla.org/en/docs/Web/API/SVGSolidcolorElement) to
Kotlin\n */\n\npublic external abstract class SVGSolidcolorElement : SVGElement {\n    companion object {\n
val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE:
Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val
DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [SVGGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGGradientElement) to
Kotlin\n */\n\npublic external abstract class SVGGradientElement : SVGElement, SVGURIReference,
SVGUnitTypes {\n    open val gradientUnits: SVGAnimatedEnumeration\n    open val gradientTransform:
SVGAnimatedTransformList\n    open val spreadMethod: SVGAnimatedEnumeration\n\n    companion object {\n
val SVG_SPREADMETHOD_UNKNOWN: Short\n        val SVG_SPREADMETHOD_PAD:
Short\n        val SVG_SPREADMETHOD_REFLECT: Short\n        val SVG_SPREADMETHOD_REPEAT:
Short\n        val SVG_UNIT_TYPE_UNKNOWN: Short\n        val SVG_UNIT_TYPE_USERSPACEONUSE:
Short\n        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n        val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n

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    }
}

/** Exposes the JavaScript
[SVGLinearGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGLinearGradientElement) to
Kotlin */
public external abstract class SVGLinearGradientElement : SVGGradientElement {
    open val x1: SVGAnimatedLength
    open val y1: SVGAnimatedLength
    open val x2: SVGAnimatedLength
    open val y2: SVGAnimatedLength
    companion object {
        val SVG_SPREADMETHOD_UNKNOWN: Short
        val SVG_SPREADMETHOD_PAD: Short
        val SVG_SPREADMETHOD_REFLECT: Short
        val SVG_SPREADMETHOD_REPEAT: Short
        val SVG_UNIT_TYPE_UNKNOWN: Short
        val SVG_UNIT_TYPE_USERSPACEONUSE: Short
        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/** Exposes the JavaScript
[SVGRadialGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGRadialGradientElement) to
Kotlin */
public external abstract class SVGRadialGradientElement : SVGGradientElement {
    open val cx: SVGAnimatedLength
    open val cy: SVGAnimatedLength
    open val r: SVGAnimatedLength
    open val fx: SVGAnimatedLength
    open val fy: SVGAnimatedLength
    open val fr: SVGAnimatedLength
    companion object {
        val SVG_SPREADMETHOD_UNKNOWN: Short
        val SVG_SPREADMETHOD_PAD: Short
        val SVG_SPREADMETHOD_REFLECT: Short
        val SVG_SPREADMETHOD_REPEAT: Short
        val SVG_UNIT_TYPE_UNKNOWN: Short
        val SVG_UNIT_TYPE_USERSPACEONUSE: Short
        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/** Exposes the JavaScript
[SVGMeshGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGMeshGradientElement) to
Kotlin */
public external abstract class SVGMeshGradientElement : SVGGradientElement {
    companion object {
        val SVG_SPREADMETHOD_UNKNOWN: Short
        val SVG_SPREADMETHOD_PAD: Short
        val SVG_SPREADMETHOD_REFLECT: Short
        val SVG_SPREADMETHOD_REPEAT: Short
        val SVG_UNIT_TYPE_UNKNOWN: Short
        val SVG_UNIT_TYPE_USERSPACEONUSE: Short
        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

```

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SVGMeshrowElement : SVGElement {\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }}\n\npublic external abstract class
SVGMeshpatchElement : SVGElement {\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }}\n\n/n/**\n * Exposes the JavaScript
[SVGStopElement](https://developer.mozilla.org/en/docs/Web/API/SVGStopElement)
to Kotlin\n */\n\npublic external abstract class SVGStopElement : SVGElement {\n  open val offset:
SVGAnimatedNumber\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }}\n\n/n/**\n * Exposes the JavaScript
[SVGPatternElement](https://developer.mozilla.org/en/docs/Web/API/SVGPatternElement)
to Kotlin\n */\n\npublic external abstract class SVGPatternElement : SVGElement, SVGFitToViewBox,
SVGURIReference, SVGUnitTypes {\n  open val patternUnits: SVGAnimatedEnumeration\n  open val patternContentUnits: SVGAnimatedEnumeration\n  open val patternTransform: SVGAnimatedTransformList\n  open val x: SVGAnimatedLength\n  open val y: SVGAnimatedLength\n  open val width: SVGAnimatedLength\n  open val height: SVGAnimatedLength\n\n  companion object {\n    val SVG_UNIT_TYPE_UNKNOWN:
Short\n    val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n    val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:

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Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external
abstract class SVGHatchElement : SVGElement {\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n
        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING:
Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val
DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract class
SVGHatchpathElement : SVGElement {\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGCursorElement](https://developer.mozilla.org/en/docs/Web/API/SVGCursorElement) to Kotlin\n */\n\npublic
external abstract class SVGCursorElement : SVGElement, SVGURIReference {\n    open val x:
SVGAnimatedLength\n    open val y: SVGAnimatedLength\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING:
Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val
DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin\n */\n\npublic
external abstract class SVGScriptElement : SVGElement, SVGURIReference, HTMLOrSVGScriptElement {\n
    open var type: String\n    open var crossOrigin: String?\n\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED:
Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val
DOCUMENT_POSITION_FOLLOWING:
Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val
DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript

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[SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin\n *\npublic external
abstract class SVGElement : SVGGraphicsElement, SVGURIReference {\n  open val target:
SVGAnimatedString\n  open val download: SVGAnimatedString\n  open val rel: SVGAnimatedString\n  open
val relList: SVGAnimatedString\n  open val hreflang: SVGAnimatedString\n  open val type:
SVGAnimatedString\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n
    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val
DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val
NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n\n  /**\n * Exposes
the JavaScript [SVGViewElement](https://developer.mozilla.org/en/docs/Web/API/SVGViewElement) to Kotlin\n
*\npublic external abstract class SVGViewElement : SVGElement, SVGFitToViewBox, SVGZoomAndPan {\n
companion object {\n    val SVG_ZOOMANDPAN_UNKNOWN: Short\n    val
SVG_ZOOMANDPAN_DISABLE: Short\n    val SVG_ZOOMANDPAN_MAGNIFY: Short\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE:
Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}"/*\n * Copyright 2010-2019
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.files\n\nimport
kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport
org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xr.*\n\n/**\n * Exposes the JavaScript
[Blob](https://developer.mozilla.org/en/docs/Web/API/Blob) to Kotlin\n *\npublic external open class
Blob(blobParts: Array<dynamic> = definedExternally, options: BlobPropertyBag = definedExternally) :
ImageBitmapSource {\n  open val size: Number\n  open val type: String\n  open val isClosed: Boolean\n  fun
slice(start: Int = definedExternally, end: Int = definedExternally, contentType: String = definedExternally): Blob\n
fun close()\n}\n\npublic external interface BlobPropertyBag {\n  var type: String?
/* = \"\" */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun BlobPropertyBag(type: String? = \"\"):
BlobPropertyBag {\n  val o = js(\"({})\")\n  o[\"type\"] = type\n  return o\n}\n\n/**\n * Exposes the JavaScript
[File](https://developer.mozilla.org/en/docs/Web/API/File) to Kotlin\n *\npublic external open class File(fileBits:
Array<dynamic>, fileName: String, options: FilePropertyBag = definedExternally) : Blob {\n  open val name:
String\n  open val lastModified: Int\n}\n\npublic external interface FilePropertyBag : BlobPropertyBag {\n  var

```

```

lastModified: Int?
    get() = definedExternally
    set(value) =
definedExternally
}
@kotlin.internal.InlineOnly
public inline fun FilePropertyBag(lastModified: Int? =
undefined, type: String? = ""): FilePropertyBag {
    val o = js("{}")
    o["lastModified"] = lastModified
    o["type"] = type
    return o
}
**

* Exposes the JavaScript [FileList](https://developer.mozilla.org/en/docs/Web/API/FileList) to Kotlin
public external abstract class FileList : ItemArrayLike<File> {
    override fun item(index: Int):
File?
}
@kotlin.internal.InlineOnly
public inline operator fun FileList.get(index: Int): File? =
asDynamic()[index]
**

* Exposes the JavaScript
[FileReader](https://developer.mozilla.org/en/docs/Web/API/FileReader) to Kotlin
public external open class
FileReader : EventTarget {
    open val readyState: Short
    open val result: dynamic
    open val error:
dynamic
    var onloadstart: ((ProgressEvent) -> dynamic)?
    var onprogress: ((ProgressEvent) -> dynamic)?
    var onload: ((Event) -> dynamic)?
    var onabort: ((Event) -> dynamic)?
    var onerror: ((Event) -> dynamic)?
    var onloadend: ((Event) -> dynamic)?
    fun readAsArrayBuffer(blob: Blob)
    fun readAsBinaryString(blob:
Blob)
    fun readAsText(blob: Blob, label: String = definedExternally)
    fun readAsDataURL(blob: Blob)
    fun abort()
    companion object {
        val EMPTY: Short
        val
LOADING: Short
        val DONE: Short
    }
}
**

* Exposes the JavaScript
[FileReaderSync](https://developer.mozilla.org/en/docs/Web/API/FileReaderSync) to Kotlin
public external
open class FileReaderSync {
    fun readAsArrayBuffer(blob: Blob): ArrayBuffer
    fun readAsBinaryString(blob:
Blob): String
    fun readAsText(blob: Blob, label: String = definedExternally): String
    fun
readAsDataURL(blob: Blob): String
}
**

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license/LICENSE.txt file.
**

NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
See
github.com/kotlin/dukat for details
package org.w3c.notifications
import kotlin.js.*
import
org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import
org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.events.*
import
org.w3c.dom.mediacapture.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import
org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import
org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*
**

* Exposes the JavaScript
[Notification](https://developer.mozilla.org/en/docs/Web/API/Notification) to Kotlin
public external open
class Notification(title: String, options: NotificationOptions = definedExternally) : EventTarget {
    var onclick:
((MouseEvent) -> dynamic)?
    var onerror: ((Event) -> dynamic)?
    open val title: String
    open val dir:
NotificationDirection
    open val lang: String
    open val body: String
    open val tag: String
    open val
image: String
    open val icon: String
    open val badge: String
    open val sound: String
    open val vibrate:
Array<out
Int>
    open val timestamp: Number
    open val renotify: Boolean
    open val silent: Boolean
    open val
noscreen: Boolean
    open val requireInteraction: Boolean
    open val sticky: Boolean
    open val data: Any?
    open val actions: Array<out NotificationAction>
    fun close()
    companion object {
        val permission:
NotificationPermission
        val maxActions: Int
        fun requestPermission(deprecatedCallback:
(NotificationPermission) -> Unit = definedExternally): Promise<NotificationPermission>
    }
}
public
external interface NotificationOptions {
    var dir: NotificationDirection? /* = NotificationDirection.AUTO */
    get() = definedExternally
    set(value) = definedExternally
    var lang: String? /* = "" */
    get() =
definedExternally
    set(value) = definedExternally
    var body: String? /* = "" */
    get() =
definedExternally
    set(value) = definedExternally
    var tag: String? /* = "" */
    get() =
definedExternally
    set(value) = definedExternally
    var image: String?
    get() =
definedExternally
    set(value) = definedExternally
    var icon: String?
    get() = definedExternally
    set(value) = definedExternally
    var badge: String?
    get() = definedExternally
    set(value) =
definedExternally
    var sound: String?
    get() = definedExternally
    set(value) = definedExternally
    var vibrate: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var timestamp:
}

```

```

Number? \n    get() = definedExternally \n    set(value) = definedExternally \n    var renotify: Boolean? /* = false
* \n    get() = definedExternally \n    set(value) = definedExternally \n    var silent: Boolean? /* = false * \n
get() = definedExternally \n    set(value) = definedExternally \n    var noscreen: Boolean? /* = false * \n    get() =
definedExternally \n    set(value)
= definedExternally \n    var requireInteraction: Boolean? /* = false * \n    get() = definedExternally \n
set(value) = definedExternally \n    var sticky: Boolean? /* = false * \n    get() = definedExternally \n    set(value)
= definedExternally \n    var data: Any? /* = null * \n    get() = definedExternally \n    set(value) =
definedExternally \n    var actions: Array<NotificationAction>? /* = arrayOf() * \n    get() = definedExternally \n
set(value) = definedExternally \n} \n \n @kotlin.internal.InlineOnly \n public inline fun NotificationOptions(dir:
NotificationDirection? = NotificationDirection.AUTO, lang: String? = "", body: String? = "", tag: String? = "",
image: String? = undefined, icon: String? = undefined, badge: String? = undefined, sound: String? = undefined,
vibrate: dynamic = undefined, timestamp: Number? = undefined, renotify: Boolean? = false, silent: Boolean? =
false, noscreen: Boolean? = false, requireInteraction: Boolean? =
false, sticky: Boolean? = false, data: Any? = null, actions: Array<NotificationAction>? = arrayOf()):
NotificationOptions { \n    val o = js("{}") \n    o["dir"] = dir \n    o["lang"] = lang \n    o["body"] = body \n
o["tag"] = tag \n    o["image"] = image \n    o["icon"] = icon \n    o["badge"] = badge \n    o["sound"] = sound \n
o["vibrate"] = vibrate \n    o["timestamp"] = timestamp \n    o["renotify"] = renotify \n    o["silent"] = silent \n
o["noscreen"] = noscreen \n    o["requireInteraction"] = requireInteraction \n    o["sticky"] = sticky \n    o["data"]
= data \n    o["actions"] = actions \n    return o \n} \n \n public external interface NotificationAction { \n    var action:
String? \n    get() = definedExternally \n    set(value) = definedExternally \n    var title: String? \n    get() =
definedExternally \n    set(value) = definedExternally \n    var icon: String? \n    get() = definedExternally \n
set(value) = definedExternally \n} \n \n @kotlin.internal.InlineOnly \n public
inline fun NotificationAction(action: String?, title: String?, icon: String? = undefined): NotificationAction { \n    val
o = js("{}") \n    o["action"] = action \n    o["title"] = title \n    o["icon"] = icon \n    return o \n} \n \n public
external interface GetNotificationOptions { \n    var tag: String? /* = "" * \n    get() = definedExternally \n
set(value) = definedExternally \n} \n \n @kotlin.internal.InlineOnly \n public inline fun GetNotificationOptions(tag:
String? = ""): GetNotificationOptions { \n    val o = js("{}") \n    o["tag"] = tag \n    return o \n} \n \n /** \n *
Exposes the JavaScript [NotificationEvent](https://developer.mozilla.org/en/docs/Web/API/NotificationEvent) to
Kotlin \n * \n public external open class NotificationEvent(type: String, eventInitDict: NotificationEventInit) :
ExtendableEvent { \n    open val notification: Notification \n    open val action: String \n \n    companion object { \n
val NONE: Short \n
        val CAPTURING_PHASE: Short \n        val AT_TARGET: Short \n        val BUBBLING_PHASE: Short \n
} \n} \n \n public external interface NotificationEventInit : ExtendableEventInit { \n    var notification: Notification? \n
get() = definedExternally \n    set(value) = definedExternally \n    var action: String? /* = "" * \n    get() =
definedExternally \n    set(value) = definedExternally \n} \n \n @kotlin.internal.InlineOnly \n public inline fun
NotificationEventInit(notification: Notification?, action: String? = "", bubbles: Boolean? = false, cancelable:
Boolean? = false, composed: Boolean? = false): NotificationEventInit { \n    val o = js("{}") \n    o["notification"]
= notification \n    o["action"] = action \n    o["bubbles"] = bubbles \n    o["cancelable"] = cancelable \n
o["composed"] = composed \n    return o \n} \n \n /* please, don't implement this interface!
* \n \n @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE") \n public external interface
NotificationPermission
{ \n    companion object \n} \n \n public inline val NotificationPermission.Companion.DEFAULT:
NotificationPermission get() = "default".asDynamic().unsafeCast<NotificationPermission>() \n \n public inline val
NotificationPermission.Companion.DENIED: NotificationPermission get() =
"denied".asDynamic().unsafeCast<NotificationPermission>() \n \n public inline val
NotificationPermission.Companion.GRANTED: NotificationPermission get() =
"granted".asDynamic().unsafeCast<NotificationPermission>() \n \n /* please, don't implement this interface!
* \n \n @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE") \n public external interface

```

```

NotificationDirection {\n  companion object\n}\n\npublic inline val NotificationDirection.Companion.AUTO:
NotificationDirection get() = \"auto\".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val
NotificationDirection.Companion.LTR: NotificationDirection get() =
\"ltr\".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val
NotificationDirection.Companion.RTL:
NotificationDirection get() = \"rtl\".asDynamic().unsafeCast<NotificationDirection>()\"/*\n * Copyright 2010-
2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.workers\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport
org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport
org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.xr.*\n\n/**\n * Exposes the JavaScript
[ServiceWorker](https://developer.mozilla.org/en/docs/Web/API/ServiceWorker)
to Kotlin\n */\n\npublic external abstract class ServiceWorker : EventTarget, AbstractWorker,
UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\n  open val scriptURL:
String\n  open val state: ServiceWorkerState\n  open var onstatechange: ((Event) -> dynamic)?\n  fun
postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerRegistration](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerRegistration) to
Kotlin\n */\n\npublic external abstract class ServiceWorkerRegistration : EventTarget {\n  open val installing:
ServiceWorker?\n  open val waiting: ServiceWorker?\n  open val active: ServiceWorker?\n  open val scope:
String\n  open var onupdatefound: ((Event) -> dynamic)?\n  open val APISpace: dynamic\n  fun update():
Promise<Unit>\n  fun unregister(): Promise<Boolean>\n  fun showNotification(title: String, options:
NotificationOptions =
definedExternally): Promise<Unit>\n  fun getNotifications(filter: GetNotificationOptions = definedExternally):
Promise<Array<Notification>>\n  fun methodName(): Promise<dynamic>\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerContainer](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerContainer) to Kotlin\n
*/\n\npublic external abstract class ServiceWorkerContainer : EventTarget {\n  open val controller:
ServiceWorker?\n  open val ready: Promise<ServiceWorkerRegistration>\n  open var oncontrollerchange:
((Event) -> dynamic)?\n  open var onmessage: ((MessageEvent) -> dynamic)?\n  fun register(scriptURL: String,
options: RegistrationOptions = definedExternally): Promise<ServiceWorkerRegistration>\n  fun
getRegistration(clientURL: String = definedExternally): Promise<Any?>\n  fun getRegistrations():
Promise<Array<ServiceWorkerRegistration>>\n  fun startMessages()\n}\n\npublic external interface
RegistrationOptions {\n  var scope: String?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var type: WorkerType? /* = WorkerType.CLASSIC
*/\n  get() = definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic
inline fun RegistrationOptions(scope: String? = undefined, type: WorkerType? = WorkerType.CLASSIC):
RegistrationOptions {\n  val o = js(\"({})\")\n  o[\"scope\"] = scope\n  o[\"type\"] = type\n  return o\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerMessageEvent) to
Kotlin\n */\n\npublic external open class ServiceWorkerMessageEvent(type: String, eventInitDict:
ServiceWorkerMessageEventInit = definedExternally) : Event {\n  open val data: Any?\n  open val origin:
String\n  open val lastEventId: String\n  open val source: UnionMessagePortOrServiceWorker?\n  open val
ports: Array<out MessagePort>?\n\n  companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE:
Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface
ServiceWorkerMessageEventInit : EventInit {\n  var data: Any?\n  get() = definedExternally\n  set(value) =

```

```

definedExternally\n    var origin: String?\n        get() = definedExternally\n        set(value) = definedExternally\n
var lastEventId: String?\n    get() = definedExternally\n    set(value) = definedExternally\n    var source:
UnionMessagePortOrServiceWorker?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
ports: Array<MessagePort>?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ServiceWorkerMessageEventInit(data: Any?
= undefined, origin: String? = undefined, lastEventId: String? = undefined, source:
UnionMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? =
false, cancelable:
Boolean? = false, composed: Boolean? = false): ServiceWorkerMessageEventInit {\n    val o = js("{}")\n
o["data"] = data\n    o["origin"] = origin\n    o["lastEventId"] = lastEventId\n    o["source"] = source\n
o["ports"] = ports\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] =
composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerGlobalScope) to
Kotlin\n */\npublic external abstract class ServiceWorkerGlobalScope : WorkerGlobalScope {\n    open val clients:
Clients\n    open val registration: ServiceWorkerRegistration\n    open var oninstall: ((Event) -> dynamic)?\n    open
var onactivate: ((Event) -> dynamic)?\n    open var onfetch: ((FetchEvent) -> dynamic)?\n    open var
onforeignfetch: ((Event) -> dynamic)?\n    open var onmessage: ((MessageEvent) -> dynamic)?\n    open var
onnotificationclick: ((NotificationEvent) -> dynamic)?\n
    open var onnotificationclose: ((NotificationEvent) -> dynamic)?\n    open var onfunctionalevent: ((Event) ->
dynamic)?\n    fun skipWaiting(): Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript
[Client](https://developer.mozilla.org/en/docs/Web/API/Client) to Kotlin\n */\npublic external abstract class Client :
UnionClientOrMessagePortOrServiceWorker {\n    open val url: String\n    open val frameType: FrameType\n
open val id: String\n    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\n/**\n
 * Exposes the JavaScript [WindowClient](https://developer.mozilla.org/en/docs/Web/API/WindowClient) to
Kotlin\n */\npublic external abstract class WindowClient : Client {\n    open val visibilityState: dynamic\n    open
val focused: Boolean\n    fun focus(): Promise<WindowClient>\n    fun navigate(url: String):
Promise<WindowClient>\n}\n\n/**\n * Exposes the JavaScript
[Clients](https://developer.mozilla.org/en/docs/Web/API/Clients) to Kotlin\n */\npublic external
abstract class Clients {\n    fun get(id: String): Promise<Any?>\n    fun matchAll(options: ClientQueryOptions =
definedExternally): Promise<Array<Client>>\n    fun openWindow(url: String): Promise<WindowClient?>\n    fun
claim(): Promise<Unit>\n}\n\npublic external interface ClientQueryOptions {\n    var includeUncontrolled:
Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n    var type:
ClientType? /* = ClientType.WINDOW */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ClientQueryOptions(includeUncontrolled:
Boolean? = false, type: ClientType? = ClientType.WINDOW): ClientQueryOptions {\n    val o = js("{}")\n
o["includeUncontrolled"] = includeUncontrolled\n    o["type"] = type\n    return o\n}\n\n/**\n * Exposes the
JavaScript [ExtendableEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableEvent) to Kotlin\n
*/\npublic external
open class ExtendableEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : Event {\n    fun
waitUntil(f: Promise<Any?>)\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE:
Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n\n    public external interface
ExtendableEventInit : EventInit\n\n    @kotlin.internal.InlineOnly\n    public inline fun ExtendableEventInit(bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableEventInit {\n        val o =
js("{}")\n        o["bubbles"] = bubbles\n        o["cancelable"] = cancelable\n        o["composed"] = composed\n
return o\n}\n\n    /**\n     * Exposes the JavaScript
[InstallEvent](https://developer.mozilla.org/en/docs/Web/API/InstallEvent) to Kotlin\n    */\n    public external open
class InstallEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : ExtendableEvent {\n        fun
registerForeignFetch(options: ForeignFetchOptions)\n    }

```

```

companion object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
}

public external interface ForeignFetchOptions {
    var scopes: Array<String>?
    get() = definedExternally
    set(value) = definedExternally
    var origins: Array<String>?
    get() = definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ForeignFetchOptions(scopes: Array<String>?, origins: Array<String>?): ForeignFetchOptions {
    val o = js("{}")
    o["scopes"] = scopes
    o["origins"] = origins
    return o
}

/** Exposes the JavaScript [FetchEvent](https://developer.mozilla.org/en/docs/Web/API/FetchEvent) to Kotlin */
public external open class FetchEvent(type: String, eventInitDict: FetchEventInit) : ExtendableEvent {
    open val request: Request
    open val clientId: String?
    open val isReload: Boolean
    fun respondWith(r: Promise<Response>)
}

companion object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
}

public external interface FetchEventInit : ExtendableEventInit {
    var request: Request?
    get() = definedExternally
    set(value) = definedExternally
    var clientId: String? /* = null */
    get() = definedExternally
    set(value) = definedExternally
    var isReload: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun FetchEventInit(request: Request?, clientId: String? = null, isReload: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): FetchEventInit {
    val o = js("{}")
    o["request"] = request
    o["clientId"] = clientId
    o["isReload"] = isReload
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external open class ForeignFetchEvent(type: String, eventInitDict: ForeignFetchEventInit) : ExtendableEvent {
    open val request: Request
    open val origin: String
    fun respondWith(r: Promise<ForeignFetchResponse>)
}

companion object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
}

public external interface ForeignFetchEventInit : ExtendableEventInit {
    var request: Request?
    get() = definedExternally
    set(value) = definedExternally
    var origin: String? /* = "null" */
    get() = definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ForeignFetchEventInit(request: Request?, origin: String? = "null", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ForeignFetchEventInit {
    val o = js("{}")
    o["request"] = request
    o["origin"] = origin
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external interface ForeignFetchResponse {
    var response: Response?
    get() = definedExternally
    set(value) = definedExternally
    var origin: String?
    get() = definedExternally
    set(value) = definedExternally
    var headers: Array<String>?
    get() = definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ForeignFetchResponse(response: Response?, origin: String? = undefined, headers: Array<String>? = undefined): ForeignFetchResponse {
    val o = js("{}")
    o["response"] = response
    o["origin"] = origin
    o["headers"] = headers
    return o
}

/** Exposes the JavaScript [ExtendableMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableMessageEvent) to Kotlin */
public external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit = definedExternally) : ExtendableEvent {
    open val data: Any?
    open val origin: String
    open val lastEventId: String
    open val source: UnionClientOrMessagePortOrServiceWorker?
    open val ports: Array<out MessagePort>?
}

companion object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
}

public external interface ExtendableMessageEventInit : ExtendableEventInit {
    var data: Any?
    get() = definedExternally
    set(value) = definedExternally
    var origin: String?
    get() = definedExternally
    set(value) = definedExternally
    var lastEventId: String?
    get() = definedExternally
    set(value) = definedExternally
    var source:

```



```

\`installed\`.asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() =
\`activating\`.asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() =
\`activated\`.asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.REDUNDANT:
ServiceWorkerState get() = \`redundant\`.asDynamic().unsafeCast<ServiceWorkerState>()\n\n/* please, don't
implement this interface! */\n\n@Suppress(\`"NESTED_CLASS_IN_EXTERNAL_INTERFACE"\`)\n\npublic external
interface FrameType {\n    companion object\n}\n\npublic inline val FrameType.Companion.AUXILIARY:
FrameType get() = \`auxiliary\`.asDynamic().unsafeCast<FrameType>()\n\npublic inline val
FrameType.Companion.TOP_LEVEL: FrameType get() = \`top-
level\`.asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.NESTED: FrameType
get() = \`nested\`.asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.NONE:
FrameType get() = \`none\`.asDynamic().unsafeCast<FrameType>()\n\n/* please, don't implement this interface!
*/\n\n@Suppress(\`"NESTED_CLASS_IN_EXTERNAL_INTERFACE"\`)\n\npublic external interface ClientType {\n
companion object\n}\n\npublic inline val ClientType.Companion.WINDOW: ClientType get() =
\`window\`.asDynamic().unsafeCast<ClientType>()\n\npublic
inline val ClientType.Companion.WORKER: ClientType get() =
\`worker\`.asDynamic().unsafeCast<ClientType>()\n\npublic inline val
ClientType.Companion.SHAREDWORKER: ClientType get() =
\`sharedworker\`.asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.ALL:
ClientType get() = \`all\`.asDynamic().unsafeCast<ClientType>()"/\n\n * Copyright 2010-2019 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.xr\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport
org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport
org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\n\n/**\n * Exposes the
JavaScript
[XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget) to
Kotlin\n */\n\npublic external abstract class XMLHttpRequestEventTarget : EventTarget {\n    open var onloadstart:
((ProgressEvent) -> dynamic)?\n    open var onprogress: ((ProgressEvent) -> dynamic)?\n    open var onabort:
((Event) -> dynamic)?\n    open var onerror: ((Event) -> dynamic)?\n    open var onload: ((Event) -> dynamic)?\n
open var ontimeout: ((Event) -> dynamic)?\n    open var onloadend: ((Event) -> dynamic)?\n}\n\npublic external
abstract class XMLHttpRequestUpload : XMLHttpRequestEventTarget\n\n/**\n * Exposes the JavaScript
[XMLHttpRequest](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequest) to Kotlin\n */\n\npublic
external open class XMLHttpRequest
: XMLHttpRequestEventTarget {\n    var onreadystatechange: ((Event) -> dynamic)?\n    open val readyState:
Short\n    var timeout: Int\n    var withCredentials: Boolean\n    open val upload: XMLHttpRequestUpload\n    open
val responseURL: String\n    open val status: Short\n    open val statusText: String\n    var responseType:
XMLHttpRequestResponseType\n    open val response: Any?\n    open val responseText: String\n    open val
responseXML: Document?\n    fun open(method: String, url: String)\n    fun open(method: String, url: String, async:
Boolean, username: String? = definedExternally, password: String? = definedExternally)\n    fun
setRequestHeader(name: String, value: String)\n    fun send(body: dynamic = definedExternally)\n    fun abort()\n
fun getResponseHeader(name: String): String?\n    fun getAllResponseHeaders(): String\n    fun
overrideMimeType(mime: String)\n\n    companion object {\n        val UNSENT: Short\n        val OPENED: Short\n

```



diagnostic that should be reported on usages of experimental API which did not explicitly accept the experimental aspect

```

    * of that API either by using [UseExperimental] or by being annotated with the corresponding marker
    annotation.
    */
    public enum class Level {
        /** Specifies that a warning should be reported on incorrect
        usages of this experimental API.
        WARNING,
        /** Specifies
        that an error should be reported on incorrect usages of this experimental API.
        ERROR,
    }
}

```

Allows to use experimental API denoted by the given markers in the annotated file, declaration, or expression. If a declaration is annotated with [UseExperimental], its usages are **not** required to opt-in to that experimental API. This class is deprecated in favor of a more general approach provided by [RequiresOptIn]/[OptIn].

```

@Target(CLASS, PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR,
FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE,
TYPEALIAS)
@Retention(SOURCE)
@SinceKotlin("1.2")
@RequireKotlin("1.2.50", versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)
@Deprecated("Please use OptIn instead.",
ReplaceWith("OptIn(*markerClass)", "kotlin.OptIn"))
public annotation class UseExperimental(
    vararg val
markerClass: KClass<out Annotation>)
@Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION,
TYPEALIAS)
@Retention(BINARY)
internal annotation class WasExperimental(
    vararg val markerClass:
KClass<out Annotation>)
"package kotlin
nimport kotlin.annotation.AnnotationTarget.*
"

```

This annotation marks the standard library API that is considered experimental and is not subject to the [general compatibility guarantees] (<https://kotlinlang.org/docs/reference/evolution/components-stability.html>) given for the standard library: the behavior of such API may be changed or the API may be removed completely in any further release. Beware using the annotated API especially if you're developing a library, since your library might become binary incompatible with the future versions of the standard library. Any usage of a declaration annotated with `@ExperimentalStdlibApi` must be accepted either by annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalStdlibApi::class)` or by using the compiler argument `-Xopt-in=kotlin.ExperimentalStdlibApi`.

```

@Suppress("DEPRECATION")
@Experimental(level =
Experimental.Level.ERROR)
@RequiresOptIn(level =
RequiresOptIn.Level.ERROR)
@Retention(AnnotationRetention.BINARY)
@Target(CLASS,
ANNOTATION_CLASS,
PROPERTY,
FIELD,
LOCAL_VARIABLE,
VALUE_PARAMETER,
CONSTRUCTOR,
FUNCTION,
PROPERTY_GETTER,
PROPERTY_SETTER,
TYPEALIAS)
@MustBeDocumented
@ExperimentalStdlibApi
@SinceKotlin("1.3") // TODO: Remove
experimental status from itself and advance SinceKotlin to 1.4
public annotation class
ExperimentalStdlibApi
"
"
/* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.
Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.
*/
package kotlin
nimport kotlin.annotation.AnnotationTarget.*
nimport
kotlin.experimental.ExperimentalTypeInference
"
"
/* Allows to infer generic type arguments
of a function from the calls in the annotated function parameter of that function.
When this annotation is
placed on a generic function parameter of a function,
it enables to infer the type arguments of that generic
function from the lambda body passed to that parameter.
The calls that affect inference are either members
of the receiver type of an annotated function parameter or
extensions for that type. The extensions must be
themselves annotated with @BuilderInference.
Example: we declare
fun <T>
sequence(@BuilderInference block: suspend SequenceScope<T>().->Unit): Sequence<T>
and use it
like
val result = sequence { yield("result") }
Here the type argument of the resulting sequence
is inferred to `String` from
the argument of the [SequenceScope.yield] function, that is called inside the lambda
passed to [sequence].
Note: this annotation is experimental, see [ExperimentalTypeInference]
on how to opt-in for it.
*/
@Target(VALUE_PARAMETER, FUNCTION,
PROPERTY)
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.3")
@ExperimentalTypeInference
public annotation class BuilderInference
"
"
/* Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.
Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.
*/
package kotlin
nimport

```

```

kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport
kotlin.internal.RequireKotlinVersionKind\n\n/**\n * The experimental multiplatform support API marker.\n * \n *
Any usage of a declaration annotated with `@ExperimentalMultiplatform` must be accepted either by\n * annotating
that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalMultiplatform::class)`,\n * or by using the
compiler argument `-Xopt-in=kotlin.ExperimentalMultiplatform`.\n
*/\n@Suppress("DEPRECATION")\n@Experimental\n@RequiresOptIn\n@MustBeDocumented\n@Target(\n
    CLASS,\n    ANNOTATION_CLASS,\n    PROPERTY,\n    FIELD,\n    LOCAL_VARIABLE,\n
    VALUE_PARAMETER,\n    CONSTRUCTOR,\n    FUNCTION,\n    PROPERTY_GETTER,\n
    PROPERTY_SETTER,\n
    TYPE_ALIAS)\n\n@Retention(AnnotationRetention.BINARY)\n@RequireKotlin("1.2.50", versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)\n\npublic annotation class ExperimentalMultiplatform\n\n/**\n *
Marks an expected annotation class that it isn't required to have actual counterparts in all platforms.\n * \n * This
annotation is only applicable to `expect` annotation classes in multi-platform projects and marks that class as
`optional`.\n * Optional expected class is allowed to have no corresponding actual class on the platform. Optional
annotations can only be used\n * to annotate something, not as types in signatures. If an optional annotation has no
corresponding actual class on a platform,\n * the annotation entries where it's used are simply erased when
compiling code on
that platform.\n * \n * Note: this annotation is experimental, see [ExperimentalMultiplatform] on how to opt-in for
it.\n
*/\n@Target(ANNOTATION_CLASS)\n@Retention(AnnotationRetention.BINARY)\n@ExperimentalMultiplatform\n\n@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n\npublic
annotation class OptionalExpectation\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport
kotlin.annotation.AnnotationRetention.BINARY\nimport kotlin.annotation.AnnotationRetention.SOURCE\nimport
kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport
kotlin.internal.RequireKotlinVersionKind\nimport kotlin.reflect.KClass\n\n/**\n * Signals that the annotated
annotation class is a marker of an API that requires an explicit opt-in.\n * \n * Call sites of any declaration
annotated with that marker should opt in to the API either by using [OptIn],\n * or by being annotated with that
marker themselves, effectively causing further propagation of the opt-in requirement.\n * \n * This class requires opt-
in itself and can only be used with the compiler argument `-Xopt-in=kotlin.RequiresOptIn`.\n * \n * @property
message message to be reported on usages of API without an explicit opt-in, or empty string for the default
message.\n *
    The default message is: `This declaration is experimental and its usage should be marked
with 'Marker`\n *
    or '@OptIn(Marker::class)`, where `Marker` is the opt-in requirement marker.\n *
@property level specifies how usages of API without an explicit opt-in are reported in code.\n
*/\n@Target(ANNOTATION_CLASS)\n@Retention(BINARY)\n@SinceKotlin("1.3")\n@RequireKotlin("1.3.70
", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n\npublic annotation class RequiresOptIn(\n
    val message: String = "",\n    val level: Level = Level.ERROR)\n\n/**\n * Severity of the diagnostic that should be
reported on usages which did not explicitly opt into\n * the API either by using [OptIn] or by being annotated
with the corresponding marker annotation.\n * \n * public enum class Level {\n *
    /** Specifies that a warning
should be reported on incorrect usages of this API. */\n    WARNING,\n *
    /** Specifies that an error should
be reported on incorrect usages of this API. */\n    ERROR,\n *
}
\n\n/**\n * Allows to use the API denoted by
the given markers in the annotated file, declaration, or expression.\n * \n * If a declaration is annotated with [OptIn], its
usages are not required to opt in to that API.\n * \n * This class requires opt-in itself and can only be used with
the compiler argument `-Xopt-in=kotlin.RequiresOptIn`.\n * \n */\n@Target(\n    CLASS, PROPERTY,
    LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER,
    PROPERTY_SETTER,

```

EXPRESSION, FILE,

```
TYPEALIAS\n\n@Retention(SOURCE)\n@SinceKotlin("1.3")\n@RequireKotlin("1.3.70", versionKind =  
RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class OptIn(\n    vararg val markerClass:  
KClass<out Annotation>\n)\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language  
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the  
license/LICENSE.txt file.\n */\npackage kotlin.collections\n\nimport kotlin.js.JsName\n\n/**\n * Provides a skeletal  
implementation of the read-only [Collection] interface.\n */\n * @param E the type of elements contained in the  
collection. The collection is covariant on its element type.\n */\n@SinceKotlin("1.1")\npublic abstract class  
AbstractCollection<out E> protected constructor() : Collection<E> {\n    abstract override val size: Int\n    abstract  
override fun iterator(): Iterator<E>\n\n    override fun contains(element: @UnsafeVariance E): Boolean  
= any { it == element }\n\n    override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean =\n        elements.all { contains(it) } // use when js will support bound refs: elements.all(this::contains)\n\n    override fun  
isEmpty(): Boolean = size == 0\n\n    override fun toString(): String = joinToString(", ", "[", "]")\n\n    if (it  
=== this) "(this Collection)" else it.toString()\n }\n\n /**\n * Returns new array of type `Array<Any?>` with  
the elements of this collection.\n */\n @JsName("toArray")\n protected open fun toArray(): Array<Any?> =  
copyToArrayImpl(this)\n\n /**\n * Fills the provided [array] or creates new array of the same type\n * and  
fills it with the elements of this collection.\n */\n protected open fun <T> toArray(array: Array<T>): Array<T> =  
copyToArrayImpl(this, array)\n}\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming  
Language contributors.\n * Use of this source code is  
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage  
kotlin.collections\n\nprivate enum class State {\n    Ready,\n    NotReady,\n    Done,\n    Failed\n}\n\n/**\n * A  
base class to simplify implementing iterators so that implementations only have to implement [computeNext]\n * to  
implement the iterator, calling [done] when the iteration is complete.\n */\npublic abstract class AbstractIterator<T>  
: Iterator<T> {\n    private var state = State.NotReady\n    private var nextValue: T? = null\n\n    override fun  
hasNext(): Boolean {\n        require(state != State.Failed)\n        return when (state) {\n            State.Done -> false\n            State.Ready -> true\n            else -> tryToComputeNext()\n        }\n    }\n\n    override fun next(): T {\n        if  
(!hasNext()) throw NoSuchElementException()\n        state = State.NotReady\n        @Suppress("UNCHECKED_CAST")\n        return nextValue as T\n    }\n\n    private fun  
tryToComputeNext(): Boolean {\n        state = State.Failed\n        computeNext()\n        return state ==  
State.Ready\n    }\n\n    /**\n * Computes the next item in the iterator.\n */\n * This callback method should  
call one of these two methods:\n * * [setNext] with the next value of the iteration\n * * [done] to indicate  
there are no more elements\n * * Failure to call either method will result in the iteration terminating with a  
failed state\n */\n abstract protected fun computeNext(): Unit\n\n /**\n * Sets the next value in the iteration,  
called from the [computeNext] function\n */\n protected fun setNext(value: T): Unit {\n    nextValue =  
value\n    state = State.Ready\n }\n\n /**\n * Sets the state to done so that the iteration terminates.\n */\n protected fun done() {\n    state = State.Done\n }\n}\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and  
Kotlin Programming Language contributors.\n\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n/**\n */\n * Based on GWT AbstractList\n * Copyright 2007 Google Inc.\n */\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the read-only [List] interface.\n */\n * This class is intended to help  
implementing read-only lists so it doesn't support concurrent modification tracking.\n */\n * @param E the type of  
elements contained in the list. The list is covariant on its element type.\n */\n@SinceKotlin("1.1")\npublic abstract  
class AbstractList<out E> protected constructor() : AbstractCollection<E>(), List<E> {\n    abstract override val  
size: Int\n    abstract override fun get(index: Int): E\n\n    override fun iterator(): Iterator<E> = IteratorImpl()\n\n    override fun  
indexOf(element: @UnsafeVariance E): Int = indexOfFirst { it == element }\n\n    override fun  
lastIndexOf(element: @UnsafeVariance E): Int = indexOfLast { it == element  
}\n\n    override fun listIterator(): ListIterator<E> = ListIteratorImpl(0)\n\n    override fun listIterator(index: Int):  
ListIterator<E> = ListIteratorImpl(index)\n\n    override fun subList(fromIndex: Int, toIndex: Int): List<E> =
```







```

NoSuchElementException("ArrayDeque is empty.") else internalGet(head)\n\n /**\n * Returns the first
element, or `null` if this deque is empty.\n */\n public fun firstOrNull(): E? = if (isEmpty()) null else
internalGet(head)\n\n /**\n * Returns the last element, or throws [NoSuchElementException] if this deque is
empty.\n */\n public fun last(): E = if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")
else internalGet(internalIndex(lastIndex))\n\n /**\n * Returns the last element, or `null` if this deque is empty.\n
*/\n public fun lastOrNull(): E? = if (isEmpty()) null else internalGet(internalIndex(lastIndex))\n\n /**\n *
Prepends the specified [element] to this deque.\n */\n public
fun addFirst(element: E) {\n    ensureCapacity(size + 1)\n\n    head = decremented(head)\n
elementData[head] = element\n    size += 1\n } \n\n /**\n * Appends the specified [element] to this deque.\n
*/\n public fun addLast(element: E) {\n    ensureCapacity(size + 1)\n\n    elementData[internalIndex(size)] =
element\n    size += 1\n } \n\n /**\n * Removes the first element from this deque and returns that removed
element, or throws [NoSuchElementException] if this deque is empty.\n */\n public fun removeFirst(): E {\n
if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")\n\n    val element =
internalGet(head)\n    elementData[head] = null\n    head = incremented(head)\n    size -= 1\n    return
element\n } \n\n /**\n * Removes the first element from this deque and returns that removed element, or
returns `null` if this deque is empty.\n */\n public fun removeFirstOrNull():
E? = if (isEmpty()) null else removeFirst()\n\n /**\n * Removes the last element from this deque and returns
that removed element, or throws [NoSuchElementException] if this deque is empty.\n */\n public fun
removeLast(): E {\n    if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")\n\n    val
internalLastIndex = internalIndex(lastIndex)\n    val element = internalGet(internalLastIndex)\n
elementData[internalLastIndex] = null\n    size -= 1\n    return element\n } \n\n /**\n * Removes the last
element from this deque and returns that removed element, or returns `null` if this deque is empty.\n */\n public
fun removeLastOrNull(): E? = if (isEmpty()) null else removeLast()\n\n // MutableList, MutableCollection\n
public override fun add(element: E): Boolean {\n    addLast(element)\n    return true\n } \n\n public override
fun add(index: Int, element: E) {\n    AbstractList.checkPositionIndex(index,
size)\n\n    if (index == size) {\n        addLast(element)\n        return\n    } else if (index == 0) {\n
addFirst(element)\n        return\n    } \n\n    ensureCapacity(size + 1)\n\n    // Elements in circular array lay
in 2 ways:\n    // 1. `head` is less than `tail`:    [#, #, e1, e2, e3, #]\n    // 2. `head` is greater than `tail`:    [e3,
#, #, #, e1, e2]\n    // where head is the index of the first element in the circular array,\n    // and tail is the index
following the last element.\n    // At this point the insertion index is not equal to head or tail.\n    // Also
the circular array can store at least one more element.\n    // Depending on where the given element must
be inserted the preceding or the succeeding\n    // elements will be shifted to make room for the element to be
inserted.\n    // In case the preceding elements are shifted:\n
    // * if the insertion index is greater than the head (regardless of circular array form)\n    // -> shift the
preceding elements\n    // * otherwise, the circular array has (2) form and the insertion index is less than tail\n
    // -> shift all elements in the back of the array\n    // -> shift preceding elements in the front of the array\n
    // In case the succeeding elements are shifted:\n    // * if the insertion index is less than the tail (regardless of
circular array form)\n    // -> shift the succeeding elements\n    // * otherwise, the circular array has (2)
form and the insertion index is greater than head\n    // -> shift all elements in the front of the array\n    //
-> shift succeeding elements in the back of the array\n\n    val internalIndex = internalIndex(index)\n\n    if
(index < (size + 1) shr 1) {\n        // closer to the first element -> shift preceding elements\n
        val decrementedInternalIndex = decremented(internalIndex)\n        val decrementedHead =
decremented(head)\n\n        if (decrementedInternalIndex >= head) {\n            elementData[decrementedHead]
= elementData[head] // head can be zero\n            elementData.copyInto(elementData, head, head + 1,
decrementedInternalIndex + 1)\n        } else { // head > tail\n            elementData.copyInto(elementData, head -
1, head, elementData.size) // head can't be zero\n            elementData[elementData.size - 1] = elementData[0]\n
            elementData.copyInto(elementData, 0, 1, decrementedInternalIndex + 1)\n        } \n\n        elementData[decrementedInternalIndex] = element\n        head = decrementedHead\n    } else {\n        //

```

```

closer to the last element -> shift succeeding elements\n        val tail = internalIndex(size)\n\n        if
(internalIndex < tail) {\n            elementData.copyInto(elementData,
            internalIndex + 1, internalIndex, tail)\n        } else { // head > tail\n            elementData.copyInto(elementData,
1, 0, tail)\n            elementData[0] = elementData[elementData.size - 1]\n            elementData.copyInto(elementData, internalIndex + 1, internalIndex, elementData.size - 1)\n        }\n\n        elementData[internalIndex] = element\n    }\n    size += 1\n }\n\n private fun
copyCollectionElements(internalIndex: Int, elements: Collection<E>) {\n    val iterator = elements.iterator()\n\n    for (index in internalIndex until elementData.size) {\n        if (!iterator.hasNext()) break\n        elementData[index] = iterator.next()\n    }\n\n    for (index in 0 until head) {\n        if (!iterator.hasNext())
break\n        elementData[index] = iterator.next()\n    }\n\n    size += elements.size\n }\n\n public override
fun addAll(elements: Collection<E>): Boolean {\n    if (elements.isEmpty())
return false\n    ensureCapacity(this.size + elements.size)\n    copyCollectionElements(internalIndex(size),
elements)\n    return true\n }\n\n public override fun addAll(index: Int, elements: Collection<E>): Boolean {\n
    AbstractList.checkPositionIndex(index, size)\n\n    if (elements.isEmpty()) {\n        return false\n    } else
if (index == size) {\n        return addAll(elements)\n    }\n\n    ensureCapacity(this.size + elements.size)\n\n
    val tail = internalIndex(size)\n    val internalIndex = internalIndex(index)\n    val elementsSize =
elements.size\n\n    if (index < (size + 1) shr 1) {\n        // closer to the first element -> shift preceding
elements\n\n        var shiftedHead = head - elementsSize\n\n        if (internalIndex >= head) {\n            if
(shiftedHead >= 0) {\n                elementData.copyInto(elementData, shiftedHead, head, internalIndex)\n
            }\n        } else
{\n            // head < tail, insertion leads to head >= tail\n                shiftedHead += elementData.size\n                val
elementsToShift = internalIndex - head\n                val shiftToBack = elementData.size - shiftedHead\n\n                if (shiftToBack >= elementsToShift) {\n                    elementData.copyInto(elementData, shiftedHead, head,
internalIndex)\n                } else {\n                    elementData.copyInto(elementData, shiftedHead, head, head +
shiftToBack)\n                    elementData.copyInto(elementData, 0, head + shiftToBack, internalIndex)\n                }\n            }\n        } else { // head > tail, internalIndex < tail\n            elementData.copyInto(elementData,
shiftedHead, head, elementData.size)\n            if (elementsSize >= internalIndex) {\n                elementData.copyInto(elementData, elementData.size - elementsSize, 0, internalIndex)\n            } else {\n                elementData.copyInto(elementData, elementData.size - elementsSize, 0, elementsSize)\n                elementData.copyInto(elementData, 0, elementsSize, internalIndex)\n            }\n        }\n\n        head =
shiftedHead\n        copyCollectionElements(negativeMod(internalIndex - elementsSize), elements)\n    } else
{\n        // closer to the last element -> shift succeeding elements\n        val shiftedInternalIndex =
internalIndex + elementsSize\n\n        if (internalIndex < tail) {\n            if (tail + elementsSize <=
elementData.size) {\n                elementData.copyInto(elementData, shiftedInternalIndex, internalIndex, tail)\n
            }\n        } else { // head < tail, insertion leads to head >= tail\n            if (shiftedInternalIndex >= elementData.size)
{\n                elementData.copyInto(elementData, shiftedInternalIndex - elementData.size, internalIndex, tail)\n
            }\n        } else {\n            val shiftToFront = tail + elementsSize - elementData.size\n            elementData.copyInto(elementData, 0, tail - shiftToFront, tail)\n            elementData.copyInto(elementData,
shiftedInternalIndex, internalIndex, tail - shiftToFront)\n        }\n    }\n\n    } else { // head > tail,
internalIndex > head\n        elementData.copyInto(elementData, elementsSize, 0, tail)\n        if
(shiftedInternalIndex >= elementData.size) {\n            elementData.copyInto(elementData, shiftedInternalIndex
- elementData.size, internalIndex, elementData.size)\n        } else {\n            elementData.copyInto(elementData, 0, elementData.size - elementsSize, elementData.size)\n            elementData.copyInto(elementData, shiftedInternalIndex, internalIndex, elementData.size - elementsSize)\n        }\n    }\n\n    }\n\n    copyCollectionElements(internalIndex,
elements)\n    }\n\n    return true\n }\n\n public override fun get(index: Int): E {\n
AbstractList.checkElementIndex(index, size)\n    return internalGet(internalIndex(index))\n }\n\n public

```

```

override fun set(index: Int, element: E): E {
    AbstractList.checkNotNull(index, size)
    val internalIndex = internalIndex(index)
    val oldElement = internalGet(internalIndex)
    elementData[internalIndex] = element
    return oldElement
}

public override fun contains(element: E): Boolean = indexOf(element) != -1

public override fun indexOf(element: E): Int {
    val tail = internalIndex(size)
    if (head < tail) {
        for (index in head until tail) {
            if (element == elementData[index]) return index - head
        }
    } else if (head >= tail) {
        for (index in head until elementData.size) {
            if (element == elementData[index]) return index - head
        }
    }
    for (index in 0 until tail) {
        if (element == elementData[index]) return index + elementData.size - head
    }
    return -1
}

public override fun lastIndexOf(element: E): Int {
    val tail = internalIndex(size)
    if (head < tail) {
        for (index in tail - 1 downTo head) {
            if (element == elementData[index]) return index - head
        }
    } else if (head > tail) {
        for (index in tail - 1 downTo 0) {
            if (element == elementData[index]) return index + elementData.size - head
        }
    }
    for (index in elementData.lastIndex downTo head) {
        if (element == elementData[index]) return index - head
    }
    return -1
}

public override fun remove(element: E): Boolean {
    val index = indexOf(element)
    if (index == -1) return false
    removeAt(index)
    return true
}

public override fun removeAt(index: Int): E {
    AbstractList.checkNotNull(index, size)
    if (index == lastIndex) {
        return removeLast()
    } else if (index == 0) {
        return removeFirst()
    }
    val internalIndex = internalIndex(index)
    val element = internalGet(internalIndex)
    if (index < size shr 1) {
        // closer to the first element -> shift preceding elements
        if (internalIndex >= head) {
            elementData.copyInto(elementData, head + 1, head, internalIndex)
        } else {
            // head > tail, internalIndex < head
            elementData.copyInto(elementData, 1, 0, internalIndex)
            elementData[0] = elementData[elementData.size - 1]
            elementData.copyInto(elementData, head + 1, head, elementData.size - 1)
        }
        elementData[head] = null
        head = incremented(head)
    } else {
        // closer to the last element -> shift succeeding elements
        val internalLastIndex = internalIndex(lastIndex)
        if (internalIndex <= internalLastIndex) {
            elementData.copyInto(elementData, internalIndex, internalIndex + 1, internalLastIndex + 1)
        } else {
            // head > tail, internalIndex > head
            elementData.copyInto(elementData, internalIndex, internalIndex + 1, elementData.size)
            elementData[elementData.size - 1] = elementData[0]
            elementData.copyInto(elementData, 0, 1, internalLastIndex + 1)
        }
        elementData[internalLastIndex] = null
        size -= 1
        return element
    }
}

public override fun removeAll(elements: Collection<E>): Boolean = filterInPlace { !elements.contains(it) }

public override fun retainAll(elements: Collection<E>): Boolean = filterInPlace { elements.contains(it) }

private inline fun filterInPlace(predicate: (E) -> Boolean): Boolean {
    if (this.isEmpty() || elementData.isEmpty()) return false
    val tail = internalIndex(size)
    var newTail = head
    var modified = false
    if (head < tail) {
        for (index in head until tail) {
            val element = elementData[index]
            @SuppressWarnings("UNCHECKED_CAST") if (predicate(element as E)) {
                elementData[newTail++] = element
                modified = true
            }
        }
        elementData.fill(null, newTail, tail)
    } else {
        for (index in head until elementData.size) {
            val element = elementData[index]
            elementData[index] = null
            @SuppressWarnings("UNCHECKED_CAST") if (predicate(element as E)) {
                elementData[newTail++] = element
                modified = true
            }
        }
        newTail = positiveMod(newTail)
    }
    for (index in 0 until tail) {
        val element = elementData[index]
        elementData[index] = null
        @SuppressWarnings("UNCHECKED_CAST") if (predicate(element as E)) {
            elementData[newTail] = element
            newTail = incremented(newTail)
        } else {
            modified = true
        }
    }
    if (modified) size = negativeMod(newTail -

```

```

head)\n\n    return modified\n    }\n\n    public override fun clear() {\n        val tail = internalIndex(size)\n        if
(head < tail) {\n            elementData.fill(null, head, tail)\n        } else if (isEmpty()) {\n
elementData.fill(null, head, elementData.size)\n            elementData.fill(null, 0, tail)\n        }\n        head = 0\n
size =
0\n    }\n\n    // For testing only\n    internal fun internalStructure(structure: (head: Int, elements: Array<Any?>) ->
Unit) {\n        val tail = internalIndex(size)\n        if (isEmpty()) {\n            structure(head, emptyArray())\n
return\n        }\n        val elements = arrayOfNulls<Any?>(size)\n        if (head < tail) {\n
elementData.copyInto(elements, startIndex = head, endIndex = tail)\n            structure(head, elements)\n        } else
{\n            elementData.copyInto(elements, startIndex = head)\n            elementData.copyInto(elements,
elementData.size - head, startIndex = 0, endIndex = tail)\n            structure(head - elementData.size, elements)\n
}\n    }\n}", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("ArraysKt")\n\npackage
kotlin.collections\n\nimport kotlin.contracts.*\n\n/**\n * Returns a single list of all elements from all arrays in the
given array.\n * @sample samples.collections.Arrays.Transformations.flattenArray\n */\npublic fun <T> Array<out
Array<out T>>.flatten(): List<T> {\n    val result = ArrayList<T>(sumBy { it.size })\n    for (element in this) {\n
result.addAll(element)\n    }\n    return result\n}\n\n/**\n * Returns a pair of lists, where\n * *first* list is built from
the first values of each pair from this array,\n * *second* list is built from the second values of each pair from this
array.\n * @sample samples.collections.Arrays.Transformations.unzipArray\n */\npublic fun <T, R> Array<out
Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\n    val listT = ArrayList<T>(size)\n    val listR =
ArrayList<R>(size)\n    for (pair in this) {\n        listT.add(pair.first)\n        listR.add(pair.second)\n    }\n    return
listT to listR\n}\n\n/**\n *
Returns `true` if this nullable array is either null or empty.\n * @sample
samples.collections.Arrays.Usage.arrayIsNullOrEmpty\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun Array<*>?.isNullOrEmpty(): Boolean
{\n    contract {\n        returns(false) implies (this@isNullOrEmpty != null)\n    }\n    return this == null ||
this.isEmpty()\n}\n\n/**\n * Returns this array if it's not empty\n * or the result of calling [defaultValue] function if
the array is empty.\n * @sample samples.collections.Arrays.Usage.arrayIfEmpty\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("UPPER_BOUND_CANNOT_BE_ARRAY")\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Array<*>, C : R =\n    if (isEmpty())
defaultValue() else
this\n\n\n@UseExperimental(ExperimentalUnsignedTypes::class)\n@SinceKotlin("1.3")\n@PublishedApi\n@koti
in.jvm.JvmName("contentDeepEquals")\n@kotlin.js.JsName("contentDeepEqualsImpl")\ninternal fun <T>
Array<out
T>.contentDeepEqualsImpl(other: Array<out T>): Boolean {\n    if (this === other) return true\n    if (this.size !=
other.size) return false\n\n    for (i in indices) {\n        val v1 = this[i]\n        val v2 = other[i]\n        if (v1 === v2)
{\n            continue\n        } else if (v1 == null || v2 == null) {\n            return false\n        }\n        when {\n
v1 is Array<*>    && v2 is Array<*>    -> if (!v1.contentDeepEquals(v2)) return false\n        v1 is ByteArray
&& v2 is ByteArray    -> if (!v1.contentEquals(v2)) return false\n        v1 is ShortArray    && v2 is ShortArray    -
-> if (!v1.contentEquals(v2)) return false\n        v1 is IntArray    && v2 is IntArray    -> if
(!v1.contentEquals(v2)) return false\n        v1 is LongArray    && v2 is LongArray    -> if (!v1.contentEquals(v2))
return false\n        v1 is FloatArray    && v2 is FloatArray    -> if (!v1.contentEquals(v2)) return false\n        v1 is
DoubleArray
&& v2 is DoubleArray    -> if (!v1.contentEquals(v2)) return false\n        v1 is CharArray    && v2 is CharArray
-> if (!v1.contentEquals(v2)) return false\n        v1 is BooleanArray && v2 is BooleanArray -> if
(!v1.contentEquals(v2)) return false\n        v1 is UByteArray    && v2 is UByteArray    -> if
(!v1.contentEquals(v2)) return false\n        v1 is UShortArray   && v2 is UShortArray   -> if
(!v1.contentEquals(v2)) return false\n        v1 is UIntArray     && v2 is UIntArray     -> if (!v1.contentEquals(v2))
return false\n    }
}

```

```

return false\n      v1 is ULongArray && v2 is ULongArray -> if (!v1.contentEquals(v2)) return false\n\n
else -> if (v1 != v2) return false\n    }\n\n }\n return
true\n}\n\n@SinceKotlin("1.3")\n@PublishedApi\n@kotlin.jvm.JvmName("contentDeepToString")\n@kotlin.js.
JsName("contentDeepToStringImpl")\ninternal fun <T> Array<out T>.contentDeepToStringImpl(): String {\n
val length = size.coerceAtMost((Int.MAX_VALUE - 2) / 5)
* 5 + 2 // in order not to overflow Int.MAX_VALUE\n return buildString(length) {\n
contentDeepToStringInternal(this, mutableListOf())\n
}\n}\n\n@UseExperimental(ExperimentalUnsignedTypes::class)\nprivate fun <T> Array<out
T>.contentDeepToStringInternal(result: StringBuilder, processed: MutableList<Array<*>>) {\n if (this in
processed) {\n result.append("[...]")\n return\n }\n processed.add(this)\n result.append('[')\n\n for (i
in indices) {\n if (i != 0) {\n result.append(", ")\n }\n val element = this[i]\n when
(element) {\n null -> result.append("null")\n is Array<*> ->
element.contentDeepToStringInternal(result, processed)\n is ByteArray ->
result.append(element.contentToString())\n is ShortArray -> result.append(element.contentToString())\n
is IntArray -> result.append(element.contentToString())\n is LongArray
-> result.append(element.contentToString())\n is FloatArray ->
result.append(element.contentToString())\n is DoubleArray -> result.append(element.contentToString())\n
is CharArray -> result.append(element.contentToString())\n is BooleanArray ->
result.append(element.contentToString())\n\n is UByteArray -> result.append(element.contentToString())\n
is UShortArray -> result.append(element.contentToString())\n is UIntArray ->
result.append(element.contentToString())\n is ULongArray -> result.append(element.contentToString())\n\n
else -> result.append(element.toString())\n }\n }\n\n result.append('']\n
processed.removeAt(processed.lastIndex)\n}"/\n\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt
file.\n */\n\npackage kotlin.collections\n\n/**\n * Data class representing a value from a collection or sequence,
along with its index in that collection or sequence.\n * @property value the underlying value.\n * @property
index the index of the value in the collection or sequence.\n */\n\npublic data class IndexedValue<out T>(public val
index: Int, public val value: T)\n"/\n\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName("MapAccessorsKt")\n\npackage
kotlin.collections\n\nimport kotlin.reflect.KProperty\nimport kotlin.internal.Exact\n\n/**\n * Returns the value of
the property for the given object from this read-only map.\n * @param thisRef the object for which the value is
requested (not used).\n * @param property the metadata for the property, used to get the name of property and
lookup the
value corresponding to this name in the map.\n * @return the property value.\n * @throws
NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit
default (see [withDefault]).\n */\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <V, V1 : V> Map<in
String, @Exact V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =\n
@Suppress("UNCHECKED_CAST") (getOrNullImplicitDefault(property.name) as V1)\n\n/**\n * Returns the value
of the property for the given object from this mutable map.\n * @param thisRef the object for which the value is
requested (not used).\n * @param property the metadata for the property, used to get the name of property and
lookup the
value corresponding to this name in the map.\n * @return the property value.\n * @throws
NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit
default (see [withDefault]).\n */\n\n@kotlin.jvm.JvmName("getVar")\n@kotlin.internal.InlineOnly\npublic
inline operator fun <V, V1 : V> MutableMap<in String, out @Exact V>.getValue(thisRef: Any?, property:
KProperty<*>): V1 =\n @Suppress("UNCHECKED_CAST") (getOrNullImplicitDefault(property.name) as
V1)\n\n@Deprecated("Use getValue() with two type parameters instead", level =

```



```

V>(public override val map: MutableMap<K, V>, private val default: (key: K) -> V) : MutableMapWithDefault<K,
V> {\n  override fun equals(other: Any?): Boolean = map.equals(other)\n  override fun hashCode(): Int =
map.hashCode()\n  override fun toString(): String = map.toString()\n  override val size: Int get() = map.size\n
override fun isEmpty(): Boolean = map.isEmpty()\n  override fun containsKey(key: K): Boolean =
map.containsKey(key)\n  override fun containsValue(value: @UnsafeVariance V): Boolean =
map.containsValue(value)\n  override fun get(key: K): V? = map.get(key)\n  override val keys: MutableSet<K>
get() = map.keys\n  override val values: MutableCollection<V> get() = map.values\n  override val entries:
MutableSet<MutableMap.MutableEntry<K, V>> get() = map.entries\n\n  override fun put(key: K, value: V): V? =
map.put(key, value)\n  override fun remove(key: K): V? = map.remove(key)\n  override fun putAll(from:
Map<out K, V>)
= map.putAll(from)\n  override fun clear() = map.clear()\n\n  override fun getOrDefault(key: K): V =
map.getOrElseNullable(key, { default(key) })\n}\n\n"/>\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\nimport kotlin.random.Random\n\n/**\n * Removes a single instance of the specified element
from this\n * collection, if it is present.\n * \n * Allows to overcome type-safety restriction of `remove` that requires
to pass an element of type `E`.\n * \n * @return `true` if the element has been successfully removed; `false` if it was
not present in the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes
T> MutableCollection<out T>.remove(element: T): Boolean
=\n  @Suppress("UNCHECKED_CAST") (this as MutableCollection<T>).remove(element)\n\n/**\n * Removes
all of this collection's elements that are also contained in the specified collection.\n * \n * Allows to overcome type-
safety restriction of `removeAll` that requires to pass a collection of type `Collection<E>`.\n * \n * @return `true` if
any of the specified elements was removed from the collection, `false` if the collection was not modified.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out
T>.removeAll(elements: Collection<T>): Boolean =\n  @Suppress("UNCHECKED_CAST") (this as
MutableCollection<T>).removeAll(elements)\n\n/**\n * Retains only the elements in this collection that are
contained in the specified collection.\n * \n * Allows to overcome type-safety restriction of `retainAll` that requires
to pass a collection of type `Collection<E>`.\n * \n * @return `true` if any element was removed from the collection,
`false`
if the collection was not modified.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
<@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.retainAll(elements: Collection<T>): Boolean =\n
@Suppress("UNCHECKED_CAST") (this as MutableCollection<T>).retainAll(elements)\n\n/**\n * Adds the
specified [element] to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
MutableCollection<in T>.plusAssign(element: T) {\n  this.add(element)\n}\n\n/**\n * Adds all elements of the
given [elements] collection to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun
<T> MutableCollection<in T>.plusAssign(elements: Iterable<T>) {\n  this.addAll(elements)\n}\n\n/**\n * Adds
all elements of the given [elements] array to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline
operator fun <T> MutableCollection<in T>.plusAssign(elements: Array<T>) {\n
this.addAll(elements)\n}\n\n/**\n * Adds all
elements of the given [elements] sequence to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic
inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Sequence<T>) {\n
this.addAll(elements)\n}\n\n/**\n * Removes a single instance of the specified [element] from this mutable
collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in
T>.minusAssign(element: T) {\n  this.remove(element)\n}\n\n/**\n * Removes all elements contained in the given
[elements] collection from this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun
<T> MutableCollection<in T>.minusAssign(elements: Iterable<T>) {\n  this.removeAll(elements)\n}\n\n/**\n *
Removes all elements contained in the given [elements] array from this mutable collection.\n

```



```

ReplaceWith("removeAt(index)"), level = DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline
fun <T> MutableList<T>.remove(index: Int): T = removeAt(index)\n\n/**\n * Removes the first element from this
mutable list and returns that removed element, or throws
[NoSuchElementException] if this list is empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic
fun <T> MutableList<T>.removeFirst(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else
removeAt(0)\n\n/**\n * Removes the first element from this mutable list and returns that removed element, or
returns `null` if this list is empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <T>
MutableList<T>.removeFirstOrNull(): T? = if (isEmpty()) null else removeAt(0)\n\n/**\n * Removes the last
element from this mutable list and returns that removed element, or throws [NoSuchElementException] if this list is
empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <T> MutableList<T>.removeLast(): T =
if (isEmpty()) throw NoSuchElementException("List is empty.") else removeAt(lastIndex)\n\n/**\n * Removes the
last element from this mutable list and returns that removed element, or returns `null` if this list is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic
fun <T> MutableList<T>.removeLastOrNull(): T? = if (isEmpty()) null else removeAt(lastIndex)\n\n/**\n *
Removes all elements from this [MutableList] that match the given [predicate].\n * @return `true` if any element
was removed from this collection, or `false` when no elements were removed and collection was not modified.\n
*\npublic fun <T> MutableList<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate,
true)\n\n/**\n * Retains only elements of this [MutableList] that match the given [predicate].\n * @return `true`
if any element was removed from this collection, or `false` when all elements were retained and collection was not
modified.\n */\npublic fun <T> MutableList<T>.retainAll(predicate: (T) -> Boolean): Boolean =
filterInPlace(predicate, false)\n\nprivate fun <T> MutableList<T>.filterInPlace(predicate: (T) -> Boolean,
predicateResultToRemove: Boolean): Boolean {\n    if (this !is RandomAccess)\n        return (this as MutableIterable<T>).filterInPlace(predicate, predicateResultToRemove)\n\n    var writeIndex:
Int = 0\n    for (readIndex in 0..lastIndex) {\n        val element = this[readIndex]\n        if (predicate(element) ==
predicateResultToRemove)\n            continue\n\n        if (writeIndex != readIndex)\n            this[writeIndex] =
element\n\n        writeIndex++\n    }\n    if (writeIndex < size) {\n        for (removeIndex in lastIndex downTo
writeIndex)\n            removeAt(removeIndex)\n\n        return true\n    } else {\n        return false\n    }\n}\n\n/**\n *
Randomly shuffles elements in this mutable list using the specified [random] instance as the source of
randomness.\n * See: https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n
*\n@SinceKotlin("1.3")\npublic fun <T> MutableList<T>.shuffle(random: Random): Unit {\n    for (i in lastIndex
downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
*\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\nprivate open class ReversedListReadOnly<out T>(private val delegate: List<T>) :
AbstractList<T>() {\n    override val size: Int get() = delegate.size\n    override fun get(index: Int): T =
delegate[reverseElementIndex(index)]\n}\n\nprivate class ReversedList<T>(private val delegate: MutableList<T>) :
AbstractMutableList<T>() {\n    override val size: Int get() = delegate.size\n    override fun get(index: Int): T =
delegate[reverseElementIndex(index)]\n\n    override fun clear() = delegate.clear()\n    override fun removeAt(index:
Int): T = delegate.removeAt(reverseElementIndex(index))\n\n    override
fun set(index: Int, element: T): T = delegate.set(reverseElementIndex(index), element)\n    override fun add(index:
Int, element: T) {\n        delegate.add(reversePositionIndex(index), element)\n    }\n}\n\nprivate fun
List<*>.reverseElementIndex(index: Int) =\n    if (index in 0..lastIndex) lastIndex - index else throw
IndexOutOfBoundsException("Element index $index must be in range [0..$lastIndex].")\n\nprivate fun
List<*>.reversePositionIndex(index: Int) =\n    if (index in 0..size) size - index else throw
IndexOutOfBoundsException("Position index $index must be in range [0..$size].")\n\n\n/**\n * Returns a
reversed read-only view of the original List.\n * All changes made in the original list will be reflected in the reversed

```



```

samples.collections.Sequences.Building.buildSequenceYieldAll\n    */\n    public suspend fun yieldAll(sequence:
Sequence<T>) = yieldAll(sequence.iterator())\n}\n\n@Deprecated("Use SequenceScope class instead.",
ReplaceWith("SequenceScope<T>"), level = DeprecationLevel.ERROR)\npublic typealias SequenceBuilder<T> =
SequenceScope<T>\n\nprivate typealias State = Int\n\nprivate const val State_NotReady: State = 0\n\nprivate const
val State_ManyNotReady: State = 1\n\nprivate const val State_ManyReady: State = 2\n\nprivate const val State_Ready:
State = 3\n\nprivate const val State_Done: State = 4\n\nprivate const val State_Failed: State = 5\n\nprivate class
SequenceBuilderIterator<T> : SequenceScope<T>(),
Iterator<T>, Continuation<Unit> {\n    private var state = State_NotReady\n    private var nextValue: T? = null\n
private var nextIterator: Iterator<T>? = null\n    var nextStep: Continuation<Unit>? = null\n\n    override fun
hasNext(): Boolean {\n        while (true) {\n            when (state) {\n                State_NotReady -> {\n
State_ManyNotReady ->\n                if (nextIterator!!.hasNext()) {\n                    state = State_ManyReady\n
return true\n                } else {\n                    nextIterator = null\n                }\n            }\n
State_Done -> return false\n            State_Ready, State_ManyReady -> return true\n            else -> throw
exceptionalState()\n        }\n        state = State_Failed\n        val step = nextStep!!\n        nextStep = null\n
step.resume(Unit)\n    }\n}\n\n    override fun next(): T {\n        when (state)\n        {\n            State_NotReady, State_ManyNotReady -> return nextNotReady()\n            State_ManyReady -> {\n
state = State_ManyNotReady\n                return nextIterator!!.next()\n            }\n            State_Ready -> {\n
state = State_NotReady\n                @Suppress("UNCHECKED_CAST")\n                val result = nextValue as
T\n                nextValue = null\n                return result\n            }\n            else -> throw exceptionalState()\n        }\n
}\n\n    private fun nextNotReady(): T {\n        if (!hasNext()) throw NoSuchElementException() else return
next()\n    }\n\n    private fun exceptionalState(): Throwable = when (state) {\n        State_Done ->
NoSuchElementException()\n        State_Failed -> IllegalStateException("Iterator has failed.")\n        else ->
IllegalStateException("Unexpected state of the iterator: $state")\n    }\n}\n\n    override suspend fun yield(value: T)\n
{\n        nextValue = value\n        state = State_Ready\n        return suspendCoroutineUninterceptedOrReturn { c ->\n
nextStep = c\n        COROUTINE_SUSPENDED\n    }\n}\n}\n\n    override suspend fun yieldAll(iterator: Iterator<T>) {\n        if
(!iterator.hasNext()) return\n        nextIterator = iterator\n        state = State_ManyReady\n        return
suspendCoroutineUninterceptedOrReturn { c ->\n            nextStep = c\n            COROUTINE_SUSPENDED\n        }\n
}\n}\n\n    // Completion continuation implementation\n    override fun resumeWith(result: Result<Unit>) {\n        result.getOrThrow() // just rethrow exception if it is there\n        state = State_Done\n    }\n}\n\n    override val context:
CoroutineContext\n        get() = EmptyCoroutineContext\n}\n\n    /*\n    * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n    * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n    */\n\npackage kotlin.collections\n\ninternal
fun checkWindowSizeStep(size: Int, step: Int) {\n    require(size > 0 && step > 0) {\n        if (size != step)\n        "Both size $size and step $step must be greater than zero." else\n            "size $size must be greater than
zero." }\n}\n\ninternal fun <T> Sequence<T>.windowedSequence(size: Int, step: Int, partialWindows: Boolean,
reuseBuffer: Boolean): Sequence<List<T>> {\n    checkWindowSizeStep(size, step)\n    return Sequence {\n
windowedIterator(iterator(), size, step, partialWindows, reuseBuffer) }\n}\n\ninternal fun <T>
windowedIterator(iterator: Iterator<T>, size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean):
Iterator<List<T>> {\n    if (!iterator.hasNext()) return EmptyIterator\n    return iterator<List<T>> {\n        val
bufferInitialCapacity = size.coerceAtMost(1024)\n        val gap = step - size\n        if (gap >= 0) {\n            var buffer
= ArrayList<T>(bufferInitialCapacity)\n            var skip = 0\n            for (e in iterator) {\n                if (skip > 0) { skip -= 1; continue }\n                buffer.add(e)\n                if
(buffer.size == size) {\n                    yield(buffer)\n                    if (reuseBuffer) buffer.clear() else buffer =
ArrayList(size)\n                    skip = gap\n                }\n                if (buffer.isNotEmpty()) {\n                    if
(partialWindows || buffer.size == size) yield(buffer)\n                } else {\n                    var buffer =
RingBuffer<T>(bufferInitialCapacity)\n                    for (e in iterator) {\n                        buffer.add(e)\n                        if
(buffer.isFull()) {\n                            if (buffer.size < size) { buffer = buffer.expanded(maxCapacity = size); continue

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}\n\n        yield(if (reuseBuffer) buffer else ArrayList(buffer))\n        buffer.removeFirst(step)\n    }\n    }\n    if (partialWindows) {\n        while (buffer.size >
step) {\n        yield(if (reuseBuffer) buffer else ArrayList(buffer))\n        buffer.removeFirst(step)\n    }\n    if (buffer.isEmpty()) yield(buffer)\n    }\n    }\n}\n\ninternal class
MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {\n    private var fromIndex:
Int = 0\n    private var _size: Int = 0\n    fun move(fromIndex: Int, toIndex: Int) {\n
checkRangeIndexes(fromIndex, toIndex, list.size)\n    this.fromIndex = fromIndex\n    this._size = toIndex -
fromIndex\n    }\n\n    override fun get(index: Int): E {\n    checkElementIndex(index, _size)\n\n    return
list[fromIndex + index]\n    }\n\n    override val size: Int get() = _size\n}\n\n/**\n * Provides ring buffer
implementation.\n * Buffer overflow is not allowed so [add] doesn't overwrite tail but raises an exception.\n
*/\nprivate class RingBuffer<T>(private val buffer: Array<Any?>, filledSize:
Int) : AbstractList<T>(), RandomAccess {\n    init {\n    require(filledSize >= 0) { \"ring buffer filled size should
not be negative but it is $filledSize\" }\n    require(filledSize <= buffer.size) { \"ring buffer filled size: $filledSize
cannot be larger than the buffer size: ${buffer.size}\" }\n    }\n\n    constructor(capacity: Int) :
this(arrayOfNulls<Any?>(capacity), 0)\n    private val capacity = buffer.size\n    private var startIndex: Int = 0\n
override var size: Int = filledSize\n    private set\n\n    override fun get(index: Int): T {\n
checkElementIndex(index, size)\n    @SuppressWarnings(\"UNCHECKED_CAST\")\n    return
buffer[startIndex.forward(index)] as T\n    }\n\n    fun isFull() = size == capacity\n\n    override fun iterator():
Iterator<T> = object : AbstractIterator<T>() {\n    private var count = size\n    private var index = startIndex\n
override fun computeNext() {\n    if (count == 0) {\n        done()\n
    } else {\n        @SuppressWarnings(\"UNCHECKED_CAST\")\n        setNext(buffer[index] as T)\n
index = index.forward(1)\n        count--\n    }\n    }\n    }\n\n    @SuppressWarnings(\"UNCHECKED_CAST\")\n
override fun <T> toArray(array: Array<T>): Array<T> {\n    val result: Array<T?> =\n    if (array.size <
this.size) array.copyOf(this.size) else array as Array<T?>\n\n    val size = this.size\n\n    var widx = 0\n    var
idx = startIndex\n\n    while (widx < size && idx < capacity) {\n    result[widx] = buffer[idx] as T\n
widx++\n    idx++\n    }\n\n    idx = 0\n    while (widx < size) {\n    result[widx] = buffer[idx] as
T\n    widx++\n    idx++\n    }\n    if (result.size > this.size) result[this.size] = null\n\n    return
result as Array<T>\n    }\n\n    override fun toArray(): Array<Any?> {\n    return toArray(arrayOfNulls(size))\n
}\n\n    /**\n     * Creates a new ring buffer with the capacity equal to the minimum of [maxCapacity] and 1.5 *
[capacity].\n     * The returned ring buffer contains the same elements as this ring buffer.\n     */\n    fun
expanded(maxCapacity: Int): RingBuffer<T> {\n    val newCapacity = (capacity + (capacity shr 1) +
1).coerceAtMost(maxCapacity)\n    val newBuffer = if (startIndex == 0) buffer.copyOf(newCapacity) else
toArray(arrayOfNulls(newCapacity))\n    return RingBuffer(newBuffer, size)\n    }\n\n    /**\n     * Add [element]
to the buffer or fail with [IllegalStateException] if no free space available in the buffer\n     */\n    fun add(element:
T) {\n    if (isFull()) {\n    throw IllegalStateException(\"ring buffer is full\")\n    }\n\n    buffer[startIndex.forward(size)] = element\n    size++\n    }\n\n    /**\n     * Removes [n] first elements from the
buffer or fails with [IllegalArgumentException] if not enough elements in
the buffer to remove\n     */\n    fun removeFirst(n: Int) {\n    require(n >= 0) { \"n shouldn't be negative but it is
$n\" }\n    require(n <= size) { \"n shouldn't be greater than the buffer size: n = $n, size = $size\" }\n    if (n >
0) {\n    val start = startIndex\n    val end = start.forward(n)\n    if (start > end) {\n
buffer.fill(null, start, capacity)\n    buffer.fill(null, 0, end)\n    } else {\n    buffer.fill(null, start,
end)\n    }\n\n    startIndex = end\n    size -= n\n    }\n    }\n\n    @SuppressWarnings(\"NOTHING_TO_INLINE\")\n    private inline fun Int.forward(n: Int): Int = (this + n) %
capacity\n}\n\n\", \"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.collections\n// UByteArray
=====\n\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n    array: UByteArray, left: Int, right: Int): Int {\n    var i = left\n

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var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: UByteArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n// UShortArray
=====
\n@Exp
erimentalUnsignedTypes\nprivate
fun partition(\n    array: UShortArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: UShortArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n// UIntArray
=====
\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n    array: UIntArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: UIntArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n// ULongArray
=====
\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n    array: ULongArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: ULongArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n\nInterfaces
=====
\n/*
* Sorts the given array using qsort algorithm.\n */\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UByteArray) = quickSort(array, 0, array.size - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UShortArray) = quickSort(array, 0, array.size - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UIntArray) = quickSort(array, 0, array.size - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: ULongArray) = quickSort(array, 0, array.size - 1),"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.contracts\n\nimport kotlin.internal.ContractsDsl\nimport kotlin.internal.InlineOnly\n\n/**\n * This marker distinguishes the experimental contract declaration API and is used to opt-in for that feature\n * when declaring contracts of user functions.\n */\n * Any usage of a declaration annotated with `@ExperimentalContracts` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalContracts::class)`,\n * or by using the compiler argument `-Xopt-in=kotlin.contracts.ExperimentalContracts`.\n */\n@Suppress("DEPRECATION")\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.3")\n@Experimental\n@RequiresOptIn\n@MustBeDocumented\npublic annotation class ExperimentalContracts\n\n/* Provides a scope, where the functions of the contract DSL, such as [returns], [callsInPlace], etc.,\n * can be used to describe the contract of a function.\n */\n * This type is used as a

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receiver type of the lambda function passed to the [contract] function.\n *\n * @see contract\n
*\n@ContractsDsl\n@ExperimentalContracts\n@SinceKotlin("1.3")\npublic interface ContractBuilder {\n /**\n
 * Describes a situation when a function returns normally, without any exceptions thrown.\n *\n * Use
[SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n *\n *\n //
@sample samples.contracts.returnsContract\n @ContractsDsl public fun returns(): Returns\n\n /**\n *
Describes a situation when a function returns normally with the specified return [value].\n *\n * The possible
values of [value] are limited to `true`, `false` or `null`.\n
*\n * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n *\n
*\n // @sample samples.contracts.returnsTrueContract\n // @sample samples.contracts.returnsFalseContract\n
// @sample samples.contracts.returnsNullContract\n @ContractsDsl public fun returns(value: Any?): Returns\n\n
/**\n * Describes a situation when a function returns normally with any value that is not `null`.\n *\n * Use
[SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n *\n *\n //
@sample samples.contracts.returnsNotNullContract\n @ContractsDsl public fun returnsNotNull():
ReturnsNotNull\n\n /**\n * Specifies that the function parameter [lambda] is invoked in place.\n *\n * This
contract specifies that:\n * 1. the function [lambda] can only be invoked during the call of the owner function,\n
* and it won't be invoked after that owner function call
is completed;\n * 2. _(optionally)_ the function [lambda] is invoked the amount of times specified by the [kind]
parameter.\n * see the [InvocationKind] enum for possible values.\n *\n * A function declaring the
`callsInPlace` effect must be _inline_.\n *\n *\n /* @sample
samples.contracts.callsInPlaceAtMostOnceContract\n * @sample
samples.contracts.callsInPlaceAtLeastOnceContract\n * @sample
samples.contracts.callsInPlaceExactlyOnceContract\n * @sample
samples.contracts.callsInPlaceUnknownContract\n *\n @ContractsDsl public fun <R> callsInPlace(lambda:
Function<R>, kind: InvocationKind = InvocationKind.UNKNOWN): CallsInPlace\n}\n\n/**\n * Specifies how
many times a function invokes its function parameter in place.\n *\n * See [ContractBuilder.callsInPlace] for the
details of the call-in-place function contract.\n
*\n@ContractsDsl\n@ExperimentalContracts\n@SinceKotlin("1.3")\npublic enum class InvocationKind {\n
/**\n * A function
parameter will be invoked one time or not invoked at all.\n *\n // @sample
samples.contracts.callsInPlaceAtMostOnceContract\n @ContractsDsl AT_MOST_ONCE,\n\n /**\n * A
function parameter will be invoked one or more times.\n *\n *\n // @sample
samples.contracts.callsInPlaceAtLeastOnceContract\n @ContractsDsl AT_LEAST_ONCE,\n\n /**\n * A
function parameter will be invoked exactly one time.\n *\n *\n // @sample
samples.contracts.callsInPlaceExactlyOnceContract\n @ContractsDsl EXACTLY_ONCE,\n\n /**\n * A
function parameter is called in place, but it's unknown how many times it can be called.\n *\n *\n // @sample
samples.contracts.callsInPlaceUnknownContract\n @ContractsDsl UNKNOWN\n}\n\n/**\n * Specifies the
contract of a function.\n *\n * The contract description must be at the beginning of a function and have at least one
effect.\n *\n * Only the top-level functions can have a contract for now.\n *\n * @param builder
the lambda where the contract of a function is described with the help of the [ContractBuilder] members.\n *\n
*\n/* @sample samples.contracts.returnsContract\n* @sample samples.contracts.returnsTrueContract\n* @sample
samples.contracts.returnsFalseContract\n* @sample samples.contracts.returnsNullContract\n* @sample
samples.contracts.returnsNotNullContract\n* @sample samples.contracts.callsInPlaceAtMostOnceContract\n*
@sample samples.contracts.callsInPlaceAtLeastOnceContract\n* @sample
samples.contracts.callsInPlaceExactlyOnceContract\n* @sample
samples.contracts.callsInPlaceUnknownContract\n*\n@ContractsDsl\n@ExperimentalContracts\n@InlineOnly\n@
SinceKotlin("1.3")\n@Suppress("UNUSED_PARAMETER")\npublic inline fun contract(builder:
ContractBuilder.() -> Unit) {} \n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the

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license/LICENSE.txt file.\n

```
*/\n\npackage kotlin.coroutines\n\n/**\n * Marks coroutine context element that intercepts coroutine continuations.\n * The coroutines framework uses [ContinuationInterceptor.Key] to retrieve the interceptor and\n * intercepts all coroutine continuations with [interceptContinuation] invocations.\n * [ContinuationInterceptor] behaves like a [polymorphic element][AbstractCoroutineContextKey], meaning that\n * its implementation delegates [get][CoroutineContext.Element.get] and [minusKey][CoroutineContext.Element.minusKey]\n * to [getPolymorphicElement] and [minusPolymorphicKey] respectively.\n * [ContinuationInterceptor] subtypes can be extracted from the coroutine context using either [ContinuationInterceptor.Key]\n * or subtype key if it extends [AbstractCoroutineContextKey].\n *\n @SinceKotlin("1.3")\n public interface ContinuationInterceptor : CoroutineContext.Element {\n     /**\n      * The key that defines the context interceptor.\n      *\n companion object Key : CoroutineContext.Key<ContinuationInterceptor>\n\n
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     /**\n      * Returns continuation that wraps the original [continuation], thus intercepting all resumptions.\n      * This function is invoked by coroutines framework when needed and the resulting continuations are\n      * cached internally per each instance of the original [continuation].\n      *\n      * This function may simply return original [continuation] if it does not want to intercept this particular continuation.\n      *\n      * When the original [continuation] completes, coroutine framework invokes [releaseInterceptedContinuation]\n      * with the resulting continuation if it was intercepted, that is if `interceptContinuation` had previously\n      * returned a different continuation instance.\n      *\n public fun <T> interceptContinuation(continuation: Continuation<T>): Continuation<T>\n\n     /**\n      * Invoked for the continuation instance returned by [interceptContinuation] when the original\n      * continuation completes and will not be used anymore. This function is invoked only if [interceptContinuation]\n      * had returned a different continuation instance from the one it was invoked with.\n      *\n      * Default implementation does nothing.\n      *\n     @param continuation Continuation instance returned by this interceptor's [interceptContinuation] invocation.\n     *\n     public fun releaseInterceptedContinuation(continuation: Continuation<*>) {\n         /* do nothing by default\n     }\n\n     public override operator fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>): E? {\n         // getPolymorphicKey specialized for ContinuationInterceptor key\n
```

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         @OptIn(ExperimentalStdlibApi::class)\n         if (key is AbstractCoroutineContextKey<*, *>) {\n             @Suppress("UNCHECKED_CAST")\n             return if (key.isSubKey(this.key)) key.tryCast(this) as? E else null\n         }\n         @Suppress("UNCHECKED_CAST")\n         return if (ContinuationInterceptor === key) this as E else null\n     }\n\n     public override fun minusKey(key: CoroutineContext.Key<*>): CoroutineContext {\n         // minusPolymorphicKey specialized for ContinuationInterceptor key\n
```

```
         @OptIn(ExperimentalStdlibApi::class)\n         if (key is AbstractCoroutineContextKey<*, *>) {\n             return if (key.isSubKey(this.key) && key.tryCast(this) != null) EmptyCoroutineContext else this\n         }\n         return if (ContinuationInterceptor === key) EmptyCoroutineContext else this\n     }\n\n     /**\n      * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n      * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n     */\n\n package kotlin.coroutines\n\n /**\n  * Persistent context for the coroutine. It is an indexed set of [Element] instances.\n  * An indexed set is a mix between a set and a map.\n  * Every element in this set has a unique [Key].\n  *\n @SinceKotlin("1.3")\n public interface CoroutineContext {\n     /**\n      * Returns the element with the given [key] from this context or `null`.\n      *\n     public operator fun <E : Element> get(key: Key<E>): E?\n\n     /**\n      * Accumulates entries of this context starting with [initial] value and applying [operation]\n      * from left to right to current accumulator value and each element of this context.\n      *\n     public fun <R> fold(initial: R, operation: (R, Element) -> R): R\n\n     /**\n      * Returns a context containing elements from this context and elements from other [context].\n      * The elements from this context with the same key as in the other one are dropped.\n      *\n     public operator fun plus(context: CoroutineContext): CoroutineContext =\n         if (context === EmptyCoroutineContext) this else // fast path -- avoid lambda creation\n             context.fold(this) { acc, element ->\n                 val removed = acc.minusKey(element.key)\n                 if (removed === EmptyCoroutineContext) element\n
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                 }\n
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                 }\n
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                 }\n
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else {
    // make sure interceptor is always last in the context (and thus is fast to get when present)
    val interceptor = removed[ContinuationInterceptor] if (interceptor == null)
    CombinedContext(removed, element) else {
        val left = removed.minusKey(ContinuationInterceptor) if (left === EmptyCoroutineContext)
        CombinedContext(element, interceptor) else CombinedContext(CombinedContext(left, element),
        interceptor)
    }
}

/** Returns a context containing elements from this context, but without an element with the specified [key].
 * public fun minusKey(key: Key<*>): CoroutineContext
 * Key for the elements of [CoroutineContext]. [E] is a type of element with this key.
 * public interface Key<E : Element>
 * An element of the [CoroutineContext].
 * An element of the coroutine context is a singleton context by itself.
 * public interface Element : CoroutineContext {
 * A key of this coroutine context element.
 * public val key: Key<*>
 * public override operator fun <E : Element> get(key: Key<E>): E? =
 * @Suppress("UNCHECKED_CAST") if (this.key == key) this as E else null
 * public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = operation(initial, this)
 * public override fun minusKey(key: Key<*>): CoroutineContext = if (this.key == key) EmptyCoroutineContext else this
}

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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin.coroutines
import kotlin.coroutines.CoroutineContext.Element
import kotlin.coroutines.CoroutineContext.Key

/** Base class for [CoroutineContext.Element] implementations.
 * @SinceKotlin("1.3")
 * public abstract class AbstractCoroutineContextElement(public override val key: Key<*>) : Element
 * Base class for [CoroutineContext.Key] associated with polymorphic [CoroutineContext.Element] implementation.
 * Polymorphic element implementation implies delegating its [get][Element.get] and [minusKey][Element.minusKey] to [getPolymorphicElement] and [minusPolymorphicKey] respectively.
 * Polymorphic elements can be extracted from the coroutine context using both element key and its supertype key.
 * Example of polymorphic elements:
 * ``
 * open class BaseElement : CoroutineContext.Element {
 *     companion object Key : CoroutineContext.Key<BaseElement>
 *     override val key: CoroutineContext.Key<*> get() = Key
 *     // It is important to use getPolymorphicKey and minusPolymorphicKey
 *     override fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>): E? = getPolymorphicElement(key)
 *     override fun minusKey(key: CoroutineContext.Key<*>): CoroutineContext = minusPolymorphicKey(key)
 * }
 * class DerivedElement : BaseElement() {
 *     companion object Key :
 * AbstractCoroutineContextKey<BaseElement, DerivedElement>(BaseElement, { it as? DerivedElement })
 * }
 * // Now it is possible to query both `BaseElement` and `DerivedElement`
 * someContext[BaseElement] // Returns BaseElement?, non-null both for BaseElement and DerivedElement instances
 * someContext[DerivedElement] // Returns DerivedElement?, non-null only for DerivedElement instance
 * ``
 * @param B base class of a polymorphic element
 * @param baseKey an instance of base key
 * @param E element type associated with the current key
 * @param safeCast a function that can safely cast abstract [CoroutineContext.Element] to the concrete [E] type and return the element if it is a subtype of [E] or `null` otherwise.
 * @SinceKotlin("1.3")
 * @ExperimentalStdlibApi
 * public abstract class AbstractCoroutineContextKey<B : Element, E : B>(
 *     baseKey: Key<B>,
 *     private val safeCast: (element: Element) -> E?
 * ) : Key<E> {
 *     private val topmostKey: Key<*> = if (baseKey is AbstractCoroutineContextKey<*, *>) baseKey.topmostKey else baseKey
 *     internal fun tryCast(element: Element): E? = safeCast(element)
 *     internal fun isSubKey(key: Key<*>): Boolean = key === this || topmostKey === key
 * }
 * Returns the current element if it is associated with the given [key] in a polymorphic manner or `null` otherwise.
 * This method returns non-null value if either [Element.key] is equal to the given [key] or if the [key] is associated with [Element.key] via [AbstractCoroutineContextKey].
 * See [AbstractCoroutineContextKey] for the example of usage.
 * @SinceKotlin("1.3")
 * @ExperimentalStdlibApi
 * public fun <E : Element>

```

Element.getPolymorphicElement(key:

```
Key<E>): E? {\n  if (key is AbstractCoroutineContextKey<*, *>) {\n\n    @Suppress(\"UNCHECKED_CAST\")\n    return if (key.isSubKey(this.key)) key.tryCast(this) as? E else null\n  }\n  @Suppress(\"UNCHECKED_CAST\")\n  return if (this.key === key) this as E else null\n}\n\n/**\n * Returns empty coroutine context if the element is associated with the given [key] in a polymorphic manner\n * or `null` otherwise.\n * This method returns empty context if either [Element.key] is equal to the given [key] or if the\n * [key] is associated\n * with [Element.key] via [AbstractCoroutineContextKey].\n * See\n * [AbstractCoroutineContextKey] for the example of usage.\n */\n\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic fun Element.minusPolymorphicKey(key: Key<*>):\n  CoroutineContext {\n    if (key is AbstractCoroutineContextKey<*, *>) {\n      return if (key.isSubKey(this.key)\n        && key.tryCast(this) != null) EmptyCoroutineContext else this\n    }\n    return if (this.key === key)\n      EmptyCoroutineContext\n    else this\n  }\n\n/**\n * An empty coroutine context.\n */\n\n@SinceKotlin(\"1.3\")\npublic object\n  EmptyCoroutineContext : CoroutineContext, Serializable {\n  private const val serialVersionUID: Long = 0\n  private fun readResolve(): Any = EmptyCoroutineContext\n\n  public override fun <E : Element> get(key:\n    Key<E>): E? = null\n  public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = initial\n  public\n  override fun plus(context: CoroutineContext): CoroutineContext = context\n  public override fun minusKey(key:\n    Key<*>): CoroutineContext = this\n  public override fun hashCode(): Int = 0\n  public override fun toString():\n    String = \"EmptyCoroutineContext\"\n}\n\n//----- internal impl -----\n// this class is not\n// exposed, but is hidden inside implementations\n// this is a left-biased list, so that `plus` works\n// naturally\n\n@SinceKotlin(\"1.3\")\ninternal class CombinedContext(\n  private val left: CoroutineContext,\n  private val element: Element\n) : CoroutineContext, Serializable {\n  override fun <E : Element> get(key:\n    Key<E>): E? {\n    var cur = this\n    while (true) {\n      cur.element[key]?.let { return it }\n      val next\n      = cur.left\n      if (next is CombinedContext) {\n        cur = next\n      } else {\n        return\n        next[key]\n      }\n    }\n  }\n\n  public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =\n    operation(left.fold(initial, operation), element)\n\n  public override fun minusKey(key: Key<*>):\n    CoroutineContext {\n      element[key]?.let { return left }\n      val newLeft = left.minusKey(key)\n      return\n      when {\n        newLeft === left -> this\n        newLeft === EmptyCoroutineContext -> element\n      }\n    }\n\n  private fun size(): Int {\n    var cur = this\n    var size\n    = 2\n\n    while (true) {\n      cur = cur.left as? CombinedContext ?: return size\n      size++\n    }\n  }\n\n  private fun contains(element: Element): Boolean =\n    get(element.key) == element\n\n  private fun\n  containsAll(context: CombinedContext): Boolean {\n    var cur = context\n    while (true) {\n      if\n      (!contains(cur.element)) return false\n      val next = cur.left\n      if (next is CombinedContext) {\n        cur = next\n      } else {\n        return contains(next as Element)\n      }\n    }\n  }\n\n  override fun\n  equals(other: Any?): Boolean =\n    this === other || other is CombinedContext && other.size() == size() &&\n    other.containsAll(this)\n\n  override fun hashCode(): Int = left.hashCode() + element.hashCode()\n\n  override\n  fun toString(): String =\n    \"[\" + fold(\"\") { acc, element ->\n      if (acc.isEmpty()) element.toString() else\n      \"$acc, $element\"\n    }\n    + \"]\"\n\n  private fun writeReplace(): Any {\n    val n = size()\n    val elements =\n    arrayOfNulls<CoroutineContext>(n)\n    var index = 0\n    fold(Unit) { _, element -> elements[index++] =\n      element }\n    check(index == n)\n    @Suppress(\"UNCHECKED_CAST\")\n    return Serialized(elements\n      as Array<CoroutineContext>)\n  }\n\n  private class Serialized(val elements: Array<CoroutineContext>):\n    Serializable {\n    companion object {\n      private const val serialVersionUID: Long = 0L\n    }\n\n    private fun readResolve(): Any = elements.fold(EmptyCoroutineContext, CoroutineContext::plus)\n  }\n}\n\n/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code\n * is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"IntrinsicsKt\")\n@file:kotlin.jvm.JvmMultifileClass\npackage
```

kotlin.coroutines.intrinsics\n\nimport

kotlin.coroutines.\*\nimport kotlin.internal.InlineOnly\n\n/\*\*\n \* Obtains the current continuation instance inside suspend functions and either suspends\n \* currently running coroutine or returns result immediately without suspension.\n \* \n \* If the [block] returns the special [COROUTINE\_SUSPENDED] value, it means that suspend function did suspend the execution and will\n \* not return any result immediately. In this case, the [Continuation] provided to the [block] shall be\n \* resumed by invoking [Continuation.resumeWith] at some moment in the\n \* future when the result becomes available to resume the computation.\n \* \n \* Otherwise, the return value of the [block] must have a type assignable to [T] and represents the result of this suspend function.\n \* It means that the execution was not suspended and the [Continuation] provided to the [block] shall not be invoked.\n \* As the result type of the [block] is declared as `Any?` and cannot be correctly type-checked,\n \* its proper return type remains on the conscience of the suspend function's author.\n \* \n \* Invocation of [Continuation.resumeWith] resumes coroutine directly in the invoker's thread without going through the\n \* [ContinuationInterceptor] that might be present in the coroutine's [CoroutineContext].\n \* It is the invoker's responsibility to ensure that a proper invocation context is established.\n \* [Continuation.intercepted] can be used to acquire the intercepted continuation.\n \* \n \* Note that it is not recommended to call either [Continuation.resume] nor [Continuation.resumeWithException] functions synchronously\n \* in the same stackframe where suspension function is run. Use [suspendCoroutine] as a safer way to obtain current\n \* continuation instance.\n

\*\n@SinceKotlin("1.3")\n@InlineOnly\n@Suppress("UNUSED\_PARAMETER",

"RedundantSuspendModifier")\npublic suspend inline fun <T>

suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T =\n throw

NotImplementedError("Implementation

of suspendCoroutineUninterceptedOrReturn is intrinsic")\n\n/\*\*\n \* This value is used as a return value of [suspendCoroutineUninterceptedOrReturn] `block` argument to state that\n \* the execution was suspended and will not return any result immediately.\n \* \n \* \*\*Note: this value should not be used in general code.\*\* Using it outside of the context of\n \* `suspendCoroutineUninterceptedOrReturn` function return value (including, but not limited to,\n \* storing this value in other properties, returning it from other functions, etc)\n \* can lead to unspecified behavior of the code.\n \*\n// It is implemented as property with getter to avoid ProGuard <clinit> problem with multifile IntrinsicsKt class\n@SinceKotlin("1.3")\npublic val COROUTINE\_SUSPENDED: Any get() = CoroutineSingletons.COROUTINE\_SUSPENDED\n\n// Using enum here ensures two important properties:\n// 1.

It makes SafeContinuation serializable with all kinds of serialization frameworks (since all

of them natively support enums)\n// 2. It improves debugging experience, since you clearly see toString() value of those objects and what package they come from\n@SinceKotlin("1.3")\n@PublishedApi // This class is Published API via serialized representation of SafeContinuation, don't rename/move\ninternal enum class CoroutineSingletons

{ COROUTINE\_SUSPENDED, UNDECIDED, RESUMED }\n\n"/\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*\npackage kotlin.experimental\n\n/\*\* Performs a bitwise AND operation between the two values.

\*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.and(other: Byte): Byte = (this.toInt() and other.toInt()).toByte()\n\n/\*\* Performs a bitwise OR operation between the two values.

\*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.or(other:

Byte): Byte =

(this.toInt() or other.toInt()).toByte()\n\n/\*\* Performs a bitwise XOR operation between the two

values.\n \*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.xor(other: Byte): Byte = (this.toInt() xor other.toInt()).toByte()\n\n/\*\* Inverts the bits in this value.

\*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.inv(): Byte =

(this.toInt().inv()).toByte()\n\n/\*\* Performs a bitwise AND operation between the two values.

\*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.and(other: Short): Short = (this.toInt() and other.toInt()).toShort()\n\n/\*\* Performs a bitwise OR operation between the two values.

\*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.or(other: Short): Short =

(this.toInt() or other.toInt()).toShort()\n\n/\*\* Performs a bitwise XOR operation between the two values.

```

*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic
inline infix fun Short.xor(other: Short): Short = (this.toInt() xor other.toInt()).toShort()\n\n/** Inverts the bits in this
value. *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun Short.inv(): Short =
(this.toInt().inv()).toShort()\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.experimental\n\n/**\n * The experimental marker for type
inference augmenting annotations.\n */\n * Any usage of a declaration annotated with
`@ExperimentalTypeInference` must be accepted either by\n * annotating that usage with the [OptIn] annotation,
e.g. `@OptIn(ExperimentalTypeInference::class)`,\n * or by using the compiler argument `-Xopt-
in=kotlin.experimental.ExperimentalTypeInference`.\n */\n@Suppress("DEPRECATION")\n@Experimental(level
= Experimental.Level.ERROR)\n@RequiresOptIn(level
=
RequiresOptIn.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(A
nnotationTarget.ANNOTATION_CLASS)\n@SinceKotlin("1.3")\npublic annotation class
ExperimentalTypeInference\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.internal\n\n/**\n * Specifies that the corresponding type should be
ignored during type inference.\n */\n\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class
NoInfer\n\n/**\n * Specifies that the constraint built for the type during type inference should be an equality one.\n */\n\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class
Exact\n\n/**\n * Specifies that a corresponding member has the lowest priority in overload resolution.\n */\n\n@Target(AnnotationTarget.FUNCTION,
AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class
LowPriorityInOverloadResolution\n\n/**\n * Specifies that the corresponding member has the highest priority in
overload resolution. Effectively this means that\n * an extension annotated with this annotation will win in overload
resolution over a member with the same signature.\n */\n\n@Target(AnnotationTarget.FUNCTION,
AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class
HidesMembers\n\n/**\n * The value of this type parameter should be mentioned in input types (argument types,
receiver type or expected type).\n */\n\n@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal
annotation class OnlyInputTypes\n\n/**\n * Specifies that this function should not be called directly without
inlining\n */\n\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY,
AnnotationTarget.PROPERTY_GETTER,
AnnotationTarget.PROPERTY_SETTER)\n@Retention(AnnotationRetention.BINARY)\ninternal
annotation class InlineOnly\n\n/**\n * Specifies that this declaration can have dynamic receiver type.\n */\n\n@Target(AnnotationTarget.FUNCTION,
AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class
DynamicExtension\n\n/**\n * The value of this parameter should be a property reference expression (`this::foo`),
referencing a `lateinit` property,\n * the backing field of which is accessible at the point where the corresponding
argument is passed.\n */\n\n@Target(AnnotationTarget.VALUE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\n@SinceK
otlin("1.2")\ninternal annotation class AccessibleLateinitPropertyLiteral\n\n/**\n * Specifies that this declaration is
only completely supported since the specified version.\n */\n * The Kotlin compiler of an earlier version is going to
report a diagnostic on usages of this declaration.\n * The diagnostic message can be specified with [message], or
via [errorCode] (takes less space, but might not be immediately clear\n * to the user). The diagnostic severity can be
specified with [level]: WARNING/ERROR mean that either a warning or an error\n * is going to be reported,

```



```

}

private class NotNullVar<T : Any>() : ReadWriteProperty<Any?, T> {
    private var value: T? = null
    public override fun getValue(thisRef: Any?, property: KProperty<*>): T {
        return value ?: throw IllegalStateException("Property ${property.name} should be initialized before get.")
    }
    public override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {
        this.value = value
    }
}

/*
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin.properties
import kotlin.reflect.KProperty

/* Implements the core logic of a property delegate for a read/write property that calls callback functions when changed.
 * @param initialValue the initial value of the property.
 */
public abstract class ObservableProperty<T>(initialValue: T) : ReadWriteProperty<Any?, T> {
    private var value = initialValue
    /**
     * The callback which is called before a change to the property value is attempted.
     * The value of the property hasn't been changed yet, when this callback is invoked.
     * If the callback returns `true` the value of the property is being set to the new value,
     * and if the callback returns `false` the new value is discarded and the property remains its old value.
     */
    protected open fun beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = true
    /**
     * The callback which is called after the change of the property is made. The value of the property
     * has already been changed when this callback is invoked.
     */
    protected open fun afterChange(property: KProperty<*>, oldValue: T, newValue: T): Unit {}
    public override fun getValue(thisRef: Any?, property: KProperty<*>): T {
        return value
    }
    public override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {
        val oldValue = this.value
        if (!beforeChange(property, oldValue, value)) {
            return
        }
        this.value = value
        afterChange(property, oldValue, value)
    }
}

/*
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin.random
import kotlin.math.nextDown

/* An abstract class that is implemented by random number generator algorithms.
 * The companion object [Random.Default] is the default instance of [Random].
 * To get a seeded instance of random generator use [Random] function.
 * @sample samples.random.Randoms.defaultRandom
 */
@SinceKotlin("1.3")
public abstract class Random {
    /**
     * Gets the next random [bitCount] number of bits.
     * Generates an `Int` whose lower [bitCount] bits are filled with random values and the remaining upper bits are zero.
     * @param bitCount number of bits to generate, must be in range 0..32, otherwise the behavior is unspecified.
     */
    public abstract fun nextBits(bitCount: Int): Int
    /**
     * Gets the next random `Int` from the random number generator.
     * Generates an `Int` random value uniformly distributed between `Int.MIN_VALUE` and `Int.MAX_VALUE` (inclusive).
     */
    public open fun nextInt(): Int = nextBits(32)
    /**
     * Gets the next random non-negative `Int` from the random number generator less than the specified [until] bound.
     * Generates an `Int` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).
     * @param until must be positive.
     * @throws IllegalArgumentException if [until] is negative or zero.
     */
    public open fun nextInt(until: Int): Int = nextInt(0, until)
    /**
     * Gets the next random `Int` from the random number generator in the specified range.
     * Generates an `Int` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.
     * @throws IllegalArgumentException if [from] is greater than or equal to [until].
     */
    public open fun nextInt(from: Int, until: Int): Int {
        checkRangeBounds(from, until)
        val n = until - from
        if (n > 0 || n == Int.MIN_VALUE) {
            val rnd = if (n and -n == n) {
                val bitCount = fastLog2(n)
                nextBits(bitCount)
            } else {
                var v: Int
                do {
                    val bits = nextInt().ushr(1)
                    v = bits % n
                } while (bits - v + (n - 1) < 0)
                v
            }
            return from + rnd
        } else {
            while (true) {
                val rnd = nextInt()
                if (rnd in from until until) return rnd
            }
        }
    }
    /**
     * Gets the next random `Long` from the random number generator.
     * Generates a `Long` random value uniformly distributed between `Long.MIN_VALUE` and `Long.MAX_VALUE` (inclusive).
     */
    public open fun nextLong(): Long = nextInt().toLong().shl(32) + nextInt()
    /**
     * Gets the next random non-negative

```

```

`Long` from the random number generator less than the specified [until] bound.\n *
 * Generates a `Long` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n *
 * @param until must be positive.\n *
 * @throws IllegalArgumentException if [until] is negative or zero.\n
 *^
 public open fun nextLong(until: Long): Long = nextLong(0, until)\n\n /**
 * Gets the next random `Long` from the random number generator in the specified range.\n *
 * Generates a `Long` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *
 * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n
 *^
 public open fun nextLong(from: Long, until: Long): Long {
    checkRangeBounds(from, until)\n    val n = until - from\n    if (n > 0) {\n        val rnd: Long\n        if (n and -n == n) {\n            val nLow = n.toInt()\n            val nHigh = (n ushr 32).toInt()\n            rnd = when {\n                nLow != 0 -> {\n                    val bitCount = fastLog2(nLow)\n                    // toUInt().toLong()\n                    nextBits(bitCount).toLong() and 0xFFFF_FFFF\n                }\n                nHigh == 1 -> {\n                    // toUInt().toLong()\n                    nextInt().toLong() and 0xFFFF_FFFF\n                }\n                else -> {\n                    val bitCount = fastLog2(nHigh)\n                    nextBits(bitCount).toLong().shl(32) + nextInt()\n                }\n            }\n        } else {\n            var v: Long\n            do {\n                val bits = nextLong().ushr(1)\n                v = bits % n\n            } while (bits - v + (n - 1) < 0)\n            rnd = v\n        }\n        return from + rnd\n    } else {\n        while (true) {\n            val rnd = nextLong()\n            if (rnd in from until until) return rnd\n        }\n    }\n}\n\n /**
 * Gets the next random [Boolean] value.\n
 *^
 public open fun nextBoolean(): Boolean = nextBits(1) != 0\n\n /**
 * Gets the next random [Double] value uniformly distributed between 0 (inclusive) and 1 (exclusive).\n
 *^
 public open fun nextDouble(): Double = doubleFromParts(nextBits(26), nextBits(27))\n\n /**
 * Gets the next random non-negative `Double` from the random number generator less than the specified [until] bound.\n *
 * Generates a `Double` random value uniformly distributed between 0 (inclusive) and [until] (exclusive).\n *
 * @throws IllegalArgumentException if [until] is negative or zero.\n
 *^
 public open fun nextDouble(until: Double): Double = nextDouble(0.0, until)\n\n /**
 * Gets the next random `Double` from the random number generator in the specified range.\n *
 * Generates a `Double` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *
 * [from] and [until] must be finite otherwise the behavior is unspecified.\n *
 * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n
 *^
 public open fun nextDouble(from: Double, until: Double): Double {
    checkRangeBounds(from, until)\n    val size = until - from\n    val r = if (size.isInfinite() && from.isFinite() && until.isFinite()) {\n        val r1 = nextDouble() * (until / 2 - from / 2)\n        from + r1 + r1\n    } else {\n        from + nextDouble() * size\n    }\n    return if (r >= until) until.nextDown() else r\n}\n\n /**
 * Gets the next random [Float] value uniformly distributed between 0 (inclusive) and 1 (exclusive).\n
 *^
 public open fun nextFloat(): Float = nextBits(24) / (1 shl 24).toFloat()\n\n /**
 * Fills a subrange of the specified byte [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive\n * with random bytes.\n *
 * @return [array] with the subrange filled with random bytes.\n
 *^
 public open fun nextBytes(array: ByteArray, fromIndex: Int = 0, toIndex: Int = array.size): ByteArray {
    require(fromIndex in 0..array.size && toIndex in 0..array.size) { "\"fromIndex ($fromIndex) or toIndex ($toIndex) are out of range: 0..${array.size}.\n"}\n    require(fromIndex <= toIndex) { "\"fromIndex ($fromIndex) must be not greater than toIndex ($toIndex).\" }\n    val steps = (toIndex - fromIndex) / 4\n    var position = fromIndex\n    repeat(steps) {\n        val v = nextInt()\n        array[position] = v.toByte()\n        array[position + 1] = v.ushr(8).toByte()\n        array[position + 2] = v.ushr(16).toByte()\n        array[position + 3] = v.ushr(24).toByte()\n        position += 4\n    }\n    val remainder = toIndex - position\n    val vr = nextBits(remainder * 8)\n    for (i in 0 until remainder) {\n        array[position + i] = vr.ushr(i * 8).toByte()\n    }\n    return array\n}\n\n /**
 * Fills the specified byte [array] with random bytes and returns it.\n *
 * @return [array] filled with random bytes.\n
 *^
 public open fun nextBytes(array: ByteArray): ByteArray = nextBytes(array, 0, array.size)\n\n /**
 * Creates a byte array of the specified

```

```

[size], filled with random bytes.\n    */\n    public open fun nextBytes(size: Int): ByteArray =
nextBytes(ByteArray(size))\n\n    /**\n     * The default random number generator.\n     *\n     * On JVM this
generator is thread-safe, its methods can be invoked from multiple threads.\n     *\n     * @sample
samples.random.Randoms.defaultRandom\n     */\n    companion object Default : Random() {\n\n        private val
defaultRandom: Random = defaultPlatformRandom()\n\n        override fun nextBits(bitCount: Int): Int =
defaultRandom.nextBits(bitCount)\n\n        override fun nextInt(): Int = defaultRandom.nextInt()\n\n        override fun
nextInt(until: Int): Int = defaultRandom.nextInt(until)\n\n        override fun nextInt(from: Int, until: Int): Int =
defaultRandom.nextInt(from, until)\n\n        override fun nextLong(): Long = defaultRandom.nextLong()\n\n        override fun nextLong(until: Long): Long = defaultRandom.nextLong(until)\n\n        override fun nextLong(from:
Long, until: Long):
Long = defaultRandom.nextLong(from, until)\n\n        override fun nextBoolean(): Boolean =
defaultRandom.nextBoolean()\n\n        override fun nextDouble(): Double = defaultRandom.nextDouble()\n\n        override fun
nextDouble(until: Double): Double = defaultRandom.nextDouble(until)\n\n        override fun
nextDouble(from: Double, until: Double): Double = defaultRandom.nextDouble(from, until)\n\n        override fun
nextFloat(): Float = defaultRandom.nextFloat()\n\n        override fun nextBytes(array: ByteArray): ByteArray =
defaultRandom.nextBytes(array)\n\n        override fun nextBytes(size: Int): ByteArray =
defaultRandom.nextBytes(size)\n\n        override fun nextBytes(array: ByteArray, fromIndex: Int, toIndex: Int):
ByteArray = defaultRandom.nextBytes(array, fromIndex, toIndex)\n\n        @Deprecated("Use Default companion
object instead", level = DeprecationLevel.HIDDEN)\n        @Suppress("DEPRECATION_ERROR")\n        @kotlin.jvm.JvmField\n        public val Companion: Random.Companion
= Random.Companion\n    }\n\n    @Deprecated("Use Default companion object instead", level =
DeprecationLevel.HIDDEN)\n    public object Companion : Random() {\n\n        override fun nextBits(bitCount: Int):
Int = Default.nextBits(bitCount)\n    }\n}\n\n/**\n * Returns a repeatable random number generator seeded with the
given [seed] `Int` value.\n * Two generators with the same seed produce the same sequence of values within the
same version of Kotlin runtime.\n * **Note:** Future versions of Kotlin may change the algorithm of this seeded
number generator so that it will return\n * a sequence of values different from the current one for a given seed.\n */\n * @sample samples.random.Randoms.seededRandom\n */\n@SinceKotlin("1.3")\npublic fun Random(seed: Int):
Random = XorWowRandom(seed, seed.shr(31))\n\n/**\n * Returns a repeatable random number generator seeded
with the given [seed] `Long` value.\n * Two generators with the same seed produce the same sequence
of values within the same version of Kotlin runtime.\n * **Note:** Future versions of Kotlin may change the
algorithm of this seeded number generator so that it will return\n * a sequence of values different from the current
one for a given seed.\n * @sample samples.random.Randoms.seededRandom\n */\n@SinceKotlin("1.3")\npublic fun Random(seed: Long): Random = XorWowRandom(seed.toInt(),
seed.shr(32).toInt())\n\n/**\n * Gets the next random `Int` from the random number generator in the specified
[range].\n * Generates an `Int` random value uniformly distributed in the specified [range]:\n * from `range.start`
inclusive to `range.endInclusive` inclusive.\n * @throws IllegalArgumentException if [range] is empty.\n */\n@SinceKotlin("1.3")\npublic fun Random.nextInt(range: IntRange): Int = when {\n    range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n    range.last < Int.MAX_VALUE ->
nextInt(range.first, range.last + 1)\n    range.first > Int.MIN_VALUE -> nextInt(range.first - 1, range.last) + 1\n    else -> nextInt()\n}\n\n/**\n * Gets
the next random `Long` from the random number generator in the specified [range].\n * Generates a `Long`
random value uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive`
inclusive.\n * @throws IllegalArgumentException if [range] is empty.\n */\n@SinceKotlin("1.3")\npublic fun
Random.nextLong(range: LongRange): Long = when {\n    range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n    range.last < Long.MAX_VALUE ->
nextLong(range.first, range.last + 1)\n    range.first > Long.MIN_VALUE -> nextLong(range.first - 1, range.last) +
1\n    else -> nextLong()\n}\n\ninternal expect fun defaultPlatformRandom(): Random\ninternal expect fun
doubleFromParts(hi26: Int, low27: Int): Double\n\n@UseExperimental(ExperimentalStdlibApi::class)\ninternal fun

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fastLog2(value: Int): Int
    = 31 - value.countLeadingZeroBits()\n\n** Takes upper [bitCount] bits (0..32) from this number. *\n\ninternal fun
Int.takeUpperBits(bitCount: Int): Int =\n    this.ushr(32 - bitCount) and (-bitCount).shr(31)\n\ninternal fun
checkRangeBounds(from: Int, until: Int) = require(until > from) { boundsErrorMessage(from, until) }\n\ninternal fun
checkRangeBounds(from: Long, until: Long) = require(until > from) { boundsErrorMessage(from, until) }\n\ninternal
fun checkRangeBounds(from: Double, until: Double) = require(until > from) { boundsErrorMessage(from, until)
}\n\ninternal fun boundsErrorMessage(from: Any, until: Any) = "Random range is empty: [$from,
$until)."\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.random\n\n\n**\n * Gets the next random [UInt] from the random number generator.\n *\n *
Generates
    a [UInt] random value uniformly distributed between [UInt.MIN_VALUE] and [UInt.MAX_VALUE]
    (inclusive).\n *\n\n@SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\npublic fun Random.nextUInt(): UInt =
nextInt().toUInt()\n\n\n**\n * Gets the next random [UInt] from the random number generator less than the specified
[until] bound.\n *\n * Generates a [UInt] random value uniformly distributed between `0` (inclusive) and the
specified [until] bound (exclusive).\n *\n * @throws IllegalArgumentException if [until] is zero.\n
*\n\n@SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\npublic fun Random.nextUInt(until: UInt): UInt =
nextUInt(0u, until)\n\n\n**\n * Gets the next random [UInt] from the random number generator in the specified
range.\n *\n * Generates a [UInt] random value uniformly distributed between the specified [from] (inclusive) and
[until] (exclusive) bounds.\n *\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n
*\n\n@SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\npublic
    fun Random.nextUInt(from: UInt, until: UInt): UInt {\n        checkUIntRangeBounds(from, until)\n        val
        signedFrom = from.toInt() xor Int.MIN_VALUE\n        val signedUntil = until.toInt() xor Int.MIN_VALUE\n        val
        signedResult = nextInt(signedFrom, signedUntil) xor Int.MIN_VALUE\n        return signedResult.toUInt()\n    }\n\n\n**\n * Gets the next random [UInt] from the random number generator in the specified [range].\n *\n * Generates a
[UInt] random value uniformly distributed in the specified [range]:\n *\n * from `range.start` inclusive to
`range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is empty.\n
*\n\n@SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\npublic fun Random.nextUInt(range: UIntRange): UInt
= when {\n    range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")\n    range.last < UInt.MAX_VALUE -> nextUInt(range.first, range.last + 1u)\n    range.first > UInt.MIN_VALUE ->
nextUInt(range.first
        - 1u, range.last) + 1u\n    else -> nextUInt()\n}\n\n\n**\n * Gets the next random [ULong] from the random number
generator.\n *\n * Generates a [ULong] random value uniformly distributed between [ULong.MIN_VALUE] and
[ULong.MAX_VALUE] (inclusive).\n *\n\n@SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\npublic fun
Random.nextULong(): ULong = nextLong().toULong()\n\n\n**\n * Gets the next random [ULong] from the random
number generator less than the specified [until] bound.\n *\n * Generates a [ULong] random value uniformly
distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n *\n * @throws
    IllegalArgumentException if [until] is zero.\n *\n\n@SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\npublic
fun Random.nextULong(until: ULong): ULong = nextULong(0uL, until)\n\n\n**\n * Gets the next random [ULong]
from the random number generator in the specified range.\n *\n * Generates a [ULong] random value uniformly
distributed between the specified [from]
    (inclusive) and [until] (exclusive) bounds.\n *\n * @throws IllegalArgumentException if [from] is greater than or
equal to [until].\n *\n\n@SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\npublic fun
Random.nextULong(from: ULong, until: ULong): ULong {\n    checkULongRangeBounds(from, until)\n    val
    signedFrom = from.toLong() xor Long.MIN_VALUE\n    val signedUntil = until.toLong() xor
    Long.MIN_VALUE\n    val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE\n    return
    signedResult.toULong()\n}\n\n\n**\n * Gets the next random [ULong] from the random number generator in
the specified [range].\n *\n * Generates a [ULong] random value uniformly distributed in the specified [range]:\n *

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from `range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range]
is empty.\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n public fun Random.nextULong(range:
ULongRange): ULong = when {\n   range.isEmpty() -> throw IllegalArgumentException("\Cannot
get random in empty range: $range")\n   range.last < ULong.MAX_VALUE -> nextULong(range.first, range.last
+ 1u)\n   range.first > ULong.MIN_VALUE -> nextULong(range.first - 1u, range.last) + 1u\n   else ->
nextULong()\n }\n\n /**\n * Fills the specified unsigned byte [array] with random bytes and returns it.\n *\n *
@return [array] filled with random bytes.\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n public fun
Random.nextUBytes(array: UByteArray): UByteArray {\n   nextBytes(array.asByteArray())\n   return
array\n }\n\n /**\n * Creates an unsigned byte array of the specified [size], filled with random bytes.\n
*\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n public fun Random.nextUBytes(size: Int): UByteArray
= nextBytes(size).asUByteArray()\n\n /**\n * Fills a subrange of the specified `UByte` [array] starting from
[fromIndex] inclusive and ending [toIndex] exclusive with random UBytes.\n *\n * @return [array] with the
subrange filled with
random bytes.\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n public fun
Random.nextUBytes(array: UByteArray, fromIndex: Int = 0, toIndex: Int = array.size): UByteArray {\n
nextBytes(array.asByteArray(), fromIndex, toIndex)\n   return
array\n }\n\n @ExperimentalUnsignedTypes\n internal fun checkUIntRangeBounds(from: UInt, until: UInt) =
require(until > from) { boundsErrorMessage(from, until) }\n\n @ExperimentalUnsignedTypes\n internal fun
checkULongRangeBounds(from: ULong, until: ULong) = require(until > from) { boundsErrorMessage(from, until)
}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n @npackage kotlin.random\n\n /**\n * Random number generator, using Marsaglia's "xorwow" algorithm\n *\n *
Cycles after 2^192 - 2^32 repetitions.\n *\n * For more details, see Marsaglia, George (July 2003). "Xorshift
RNGs".
Journal of Statistical Software. 8 (14). doi:10.18637/jss.v008.i14\n *\n * Available at
https://www.jstatsoft.org/v08/i14/paper\n *\n *\n internal class XorWowRandom\n internal constructor(\n   private
var x: Int,\n   private var y: Int,\n   private var z: Int,\n   private var w: Int,\n   private var v: Int,\n   private var
addend: Int\n ) : Random() {\n   internal constructor(seed1: Int, seed2: Int) :n       this(seed1, seed2, 0, 0,
seed1.inv(), (seed1 shl 10) xor (seed2 ushr 4))\n   init {\n       require((x or y or z or w or v) != 0) { "Initial state
must have at least one non-zero element." }\n   }\n   // some trivial seeds can produce several values with zeroes in
upper bits, so we discard first 64\n   repeat(64) { nextInt() }\n   }\n   override fun nextInt(): Int {\n   //
Equivalent to the xorwow algorithm\n   // From Marsaglia, G. 2003. Xorshift RNGs. J. Statis. Soft. 8, 14, p. 5\n
var t = x\n       t = t xor (t ushr 2)\n   x = y\n   y = z\n   z = w\n   val v0 = v\n   w = v0\n   t = (t xor (t shl 1)) xor v0 xor (v0 shl 4)\n   v
= t\n   addend += 362437\n   return t + addend\n }\n   override fun nextBits(bitCount: Int): Int =n
nextInt().takeUpperBits(bitCount)\n }\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*\n @n @file: kotlin.jvm.JvmMultifileClass\n @file: kotlin.jvm.JvmName("RangesKt")\n\n package
kotlin.ranges\n\n /**\n * Represents a range of [Comparable] values.\n *\n private open class ComparableRange<T> :
Comparable<T>>(\n   override val start: T,\n   override val endInclusive: T\n ) : ClosedRange<T> {\n   override
fun equals(other: Any?): Boolean {\n       return other is ComparableRange<*> && (isEmpty() && other.isEmpty())
||n       start == other.start && endInclusive
== other.endInclusive)\n   }\n   override fun hashCode(): Int {\n       return if (isEmpty()) -1 else 31 *
start.hashCode() + endInclusive.hashCode()\n   }\n   override fun toString(): String =
"\$start..\$endInclusive"\n }\n\n /**\n * Creates a range from this [Comparable] value to the specified [that] value.\n
*\n * This value needs to be smaller than [that] value, otherwise the returned range will be empty.\n *\n @sample
samples.ranges.Ranges.rangeFromComparable\n *\n public operator fun <T> : Comparable<T>> T.rangeTo(that: T):

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ClosedRange<T> = ComparableRange(this, that)\n\n/\*\*\n \* Represents a range of floating point numbers.\n \* Extends [ClosedRange] interface providing custom operation [lessThanOrEquals] for comparing values of range domain type.\n \* This interface is implemented by floating point ranges returned by [Float.rangeTo] and [Double.rangeTo] operators to\n \* achieve IEEE-754 comparison order instead of total order of floating point numbers.\n \*/\n@SinceKotlin("1.1")\npublic interface ClosedFloatingPointRange<T> : Comparable<T>> : ClosedRange<T> {\n override fun contains(value: T): Boolean = lessThanOrEquals(start, value) && lessThanOrEquals(value, endInclusive)\n override fun isEmpty(): Boolean = !lessThanOrEquals(start, endInclusive)\n\n /\*\*\n \* Compares two values of range domain type and returns true if first is less than or equal to second.\n \*/\n fun lessThanOrEquals(a: T, b: T): Boolean\n}\n\n/\*\*\n \* A closed range of values of type `Double`.\n \* Numbers are compared with the ends of this range according to IEEE-754.\n \*/\nprivate class ClosedDoubleRange(\n start: Double,\n endInclusive: Double\n) : ClosedFloatingPointRange<Double> {\n private val \_start = start\n private val \_endInclusive = endInclusive\n override val start: Double get() = \_start\n override val endInclusive: Double get() = \_endInclusive\n override fun lessThanOrEquals(a: Double, b: Double): Boolean = a <= b\n\n override fun contains(value: Double): Boolean = value >= \_start && value <= \_endInclusive\n override fun isEmpty(): Boolean = !(\_start <= \_endInclusive)\n\n override fun equals(other: Any?): Boolean {\n return other is ClosedDoubleRange && (isEmpty() && other.isEmpty() ||\n \_start == other.\_start && \_endInclusive == other.\_endInclusive)\n }\n\n override fun hashCode(): Int {\n return if (isEmpty()) -1 else 31 \* \_start.hashCode() + \_endInclusive.hashCode()\n }\n\n override fun toString(): String =\n "\$\_start..\$\_endInclusive"\n}\n\n/\*\*\n \* Creates a range from this [Double] value to the specified [that] value.\n \* Numbers are compared with the ends of this range according to IEEE-754.\n \* @sample\n samples.ranges.Ranges.rangeFromDouble\n \*/\n@SinceKotlin("1.1")\npublic operator fun Double.rangeTo(that: Double): ClosedFloatingPointRange<Double> = ClosedDoubleRange(this, that)\n\n/\*\*\n \* A closed range of values of type `Float`.\n \* Numbers are compared with the ends of this range according to IEEE-754.\n \*/\nprivate class ClosedFloatRange(\n start: Float,\n endInclusive: Float\n) : ClosedFloatingPointRange<Float> {\n private val \_start = start\n private val \_endInclusive = endInclusive\n override val start: Float get() = \_start\n override val endInclusive: Float get() = \_endInclusive\n override fun lessThanOrEquals(a: Float, b: Float): Boolean = a <= b\n\n override fun contains(value: Float): Boolean = value >= \_start && value <= \_endInclusive\n override fun isEmpty(): Boolean = !(\_start <= \_endInclusive)\n\n override fun equals(other: Any?): Boolean {\n return other is ClosedFloatRange && (isEmpty() && other.isEmpty() ||\n \_start == other.\_start && \_endInclusive == other.\_endInclusive)\n }\n\n override fun hashCode(): Int {\n return if (isEmpty()) -1 else 31 \* \_start.hashCode() + \_endInclusive.hashCode()\n }\n\n override fun toString(): String =\n "\$\_start..\$\_endInclusive"\n}\n\n/\*\*\n \* Creates a range from this [Float] value to the specified [that] value.\n \* Numbers are compared with the ends of this range according to IEEE-754.\n \* @sample\n samples.ranges.Ranges.rangeFromFloat\n \*/\n@SinceKotlin("1.1")\npublic operator fun Float.rangeTo(that: Float): ClosedFloatingPointRange<Float> = ClosedFloatRange(this, that)\n\n/\*\*\n \* Returns `true` if this iterable range contains the specified [element].\n \* Always returns `false` if the [element] is `null`.\n \*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> R.contains(element: T?): Boolean where T : Any, R : Iterable<T>, R : ClosedRange<T> =\n element != null && contains(element)\n\ninternal fun checkStepIsPositive(isPositive: Boolean, step: Number) {\n if (!isPositive)\n throw IllegalArgumentException("Step must be positive, was: \$step.")\n}\n\n/\*\*\n \* Copyright 2010-2019\n JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n@file:kotlin.jvm.JvmName("KClasses")\n@file:Suppress("UNCHECKED\_CAST")\npackage kotlin.reflect\nimport kotlin.internal.LowPriorityInOverloadResolution\n\n/\*\*\n \* Casts the given [value] to the class represented by this [KClass] object.\n \* Throws an exception if the value is `null` or if it is not an instance of

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this class.\n *\n * This is an experimental function that behaves as a similar function from kotlin.reflect.full on
JVM.\n *\n * @see [KClass.isInstance]\n * @see [KClass.safeCast]\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@LowPriorityInOverloadResolution\nfun <T : Any>
KClass<T>.cast(value: Any?): T {\n    if (!isInstance(value)) throw ClassCastException("Value cannot be cast to
$qualifiedName")\n    return value as T\n}\n\n/**\n * Casts the given [value] to the class represented by this
[KClass] object.\n * Returns
`null` if the value is `null` or if it is not an instance of this class.\n *\n * This is an experimental function that
behaves as a similar function from kotlin.reflect.full on JVM.\n *\n * @see [KClass.isInstance]\n * @see
[KClass.cast]\n *\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@LowPriorityInOverloadResolution\nfun
<T : Any> KClass<T>.safeCast(value: Any?): T? {\n    return if (isInstance(value)) value as T else null\n}\n", /*\n *
Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\npackage
kotlin.reflect\n\n/**\n * Returns a runtime representation of the given reified type [T] as an instance of [KType].\n
*\n@Suppress("unused") // KT-12448\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun
<reified T> typeOf(): KType =\n    throw UnsupportedOperationException("This function is implemented as an
intrinsic
on all supported platforms.")\n", /*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage
kotlin.text\n\n/**\n * An object to which char sequences and values can be appended.\n *\nexpect interface
Appendable {\n    /**\n     * Appends the specified character [value] to this Appendable and returns this instance.\n
*\n     * @param value the character to append.\n     *\n     fun append(value: Char): Appendable\n\n    /**\n     *
Appends the specified character sequence [value] to this Appendable and returns this instance.\n     *\n     * @param
value the character sequence to append. If [value] is `null`, then the four characters `"\n\n\n\n"` are appended to this
Appendable.\n     *\n     fun append(value: CharSequence?): Appendable\n\n     /**\n     * Appends a subsequence of the
specified character sequence [value] to this Appendable and returns this
instance.\n     *\n     * @param value the character sequence from which a subsequence is appended. If [value] is
`null`,\n     * then characters are appended as if [value] contained the four characters `"\n\n\n\n"`. \n     * @param
startIndex the beginning (inclusive) of the subsequence to append.\n     * @param endIndex the end (exclusive) of
the subsequence to append.\n     * @throws IndexOutOfBoundsException or [IllegalArgumentException]
when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex >
endIndex`.\n     *\n     fun append(value: CharSequence?, startIndex: Int, endIndex: Int): Appendable\n}\n\n/**\n *
Appends a subsequence of the specified character sequence [value] to this Appendable and returns this instance.\n
*\n * @param value the character sequence from which a subsequence is appended. If [value]
is `null`,\n * then characters are appended as if [value] contained the four characters `"\n\n\n\n"`. \n * @param
startIndex the beginning (inclusive) of the subsequence to append.\n * @param endIndex the end (exclusive) of the
subsequence to append.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when
[startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex >
endIndex`.\n *\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <T : Appendable>
T.appendRange(value: CharSequence?, startIndex: Int, endIndex: Int): T {\n
@Suppress("UNCHECKED_CAST")\n    return append(value, startIndex, endIndex) as T\n}\n\n/**\n * Appends
all arguments to the given [Appendable].\n *\npublic fun <T : Appendable> T.append(vararg value:
CharSequence?): T {\n    for (item in value)\n        append(item)\n    return this\n}\n\ninternal fun <T>
Appendable.appendElement(element: T, transform: ((T) -> CharSequence?)) {\n    when
{\n        transform != null -> append(transform(element))\n        element is CharSequence? -> append(element)\n
        element is Char -> append(element)\n        else -> append(element.toString())\n    }\n}\n", /*\n * Copyright 2010-
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Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

```
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CharsKt\")\n\npackage kotlin.text\n\n/**\n * Concatenates this Char and a String.\n * \n * @sample samples.text.Chars.plus\n *\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun Char.plus(other: String): String = this.toString() +\nother\n\n/**\n * Returns `true` if this character is equal to the [other] character, optionally ignoring character case.\n * \n * @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.\n * \n * Two characters are considered the same
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ignoring case if at least one of the following is `true`:\n * - The two characters are the same (as compared by the == operator)\n * - Applying the method [toUpperCase] to each character produces the same result\n * - Applying the method [toLowerCase] to each character produces the same result\n * \n * @sample samples.text.Chars.equals\n *\n\npublic fun Char.equals(other: Char, ignoreCase: Boolean = false): Boolean {\n    if (this == other) return true\n    if (!ignoreCase) return false\n    if (this.toUpperCase() == other.toUpperCase()) return true\n    if (this.toLowerCase() == other.toLowerCase()) return true\n    return false\n}\n\n/**\n * Returns `true` if this character is a Unicode surrogate code unit.\n *\n\npublic fun Char.isSurrogate(): Boolean = this in Char.MIN_SURROGATE..Char.MAX_SURROGATE\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in
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the license/LICENSE.txt file.\n

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*\n\n@file:kotlin.jvm.JvmMultifileClass\n\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage kotlin.text\n\n/**\n * Trims leading whitespace characters followed by [marginPrefix] from every line of a source string and removes\n * the first and the last lines if they are blank (notice difference blank vs empty).\n * \n * Doesn't affect a line if it doesn't contain [marginPrefix] except the first and the last blank lines.\n * \n * Doesn't preserve the original line endings.\n * \n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is `|` (pipe character).\n * \n * @sample samples.text.Strings.trimMargin\n * \n * @see trimIndent\n * \n * @see kotlin.text.isWhitespace\n *\n\npublic fun String.trimMargin(marginPrefix: String = `|`): String =\nreplaceIndentByMargin(`|`, marginPrefix)\n\n/**\n * Detects indent by [marginPrefix] as it does [trimMargin] and replace it with [newIndent].\n * \n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is `|` (pipe character).\n *\n\npublic fun String.replaceIndentByMargin(newIndent: String = `|`, marginPrefix: String = `|`): String {\n    require(marginPrefix.isNotBlank()) { \"marginPrefix must be non-blank string.\" }\n    val lines = lines()\n    return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), {\n        line ->\n        val firstNonWhitespaceIndex = line.indexOfFirst { !it.isWhitespace() }\n        when {\n            firstNonWhitespaceIndex == -1 -> null\n            line.startsWith(marginPrefix, firstNonWhitespaceIndex) ->\n                line.substring(firstNonWhitespaceIndex + marginPrefix.length)\n            else -> null\n        }\n    })\n}\n\n/**\n * Detects a common minimal indent of all the input lines, removes it from every line and also removes the first and the last\n * lines if they are blank (notice difference blank vs empty).\n * \n * Note that blank lines do not affect the detected indent level.\n
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*\n * In case if there are non-blank lines with no leading whitespace characters (no indent at all) then the\n * common indent is 0, and therefore this function doesn't change the indentation.\n * \n * Doesn't preserve the original line endings.\n * \n * @sample samples.text.Strings.trimIndent\n * \n * @see trimMargin\n * \n * @see kotlin.text.isBlank\n *\n\npublic fun String.trimIndent(): String = replaceIndent(`|`)\n\n/**\n * Detects a common minimal indent like it does [trimIndent] and replaces it with the specified [newIndent].\n *\n\npublic fun String.replaceIndent(newIndent: String = `|`): String {\n    val lines = lines()\n    val minCommonIndent = lines\n        .filter(String::isNotBlank)\n        .map(String::indentWidth)\n        .min() ?: 0\n    return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), {\n        line -> line.drop(minCommonIndent)\n    })\n}\n\n/**\n * Prepends [indent] to every line of the original string.\n * \n * Doesn't preserve the original
```

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line endings.\n *\n\npublic fun String.prependIndent(indent: String = `|`): String =\n    lines\n        .map {\n            when {\n                it.isBlank() -> {\n                    when {\n                        it.length < indent.length ->
```

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indent\n
        else -> it\n
            }\n
        }\n
        else -> indent + it\n
            }\n
        }\n
.joinToString("\n")\n\nprivate fun String.indentWidth(): Int = indexOfFirst { !it.isWhitespace() }.let { if (it == -1)
length else it }\n\nprivate fun getIndentFunction(indent: String) = when { \n    indent.isEmpty() -> { line: String ->
line }\n    else -> { line: String -> indent + line }\n}\n\nprivate inline fun List<String>.reindent(\n
resultSizeEstimate: Int,\n    indentAddFunction: (String) -> String,\n    indentCutFunction: (String) -> String?):
String { \n    val lastIndex = lastIndex\n    return mapIndexedNotNull { index, value ->\n        if ((index == 0 || index
== lastIndex) && value.isBlank())\n            null\n        else\n
indentCutFunction(value)?.let(indentAddFunction)?: value\n    }\n    .joinTo(StringBuilder(resultSizeEstimate),
"\n")\n    .toString()\n}\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Defines names for Unicode symbols used in proper
Typography.\n */\npublic object Typography {\n    /** The character &#x22; \u2013 quotation mark */\n    public
const val quote: Char = "\u0022"\n    /** The character &#x24; \u2013 dollar sign */\n    public const val dollar:
Char = "\u0024"\n    /** The character &#x26; \u2013 ampersand */\n    public const val amp: Char = "\u0026"\n
    /** The character &#x3C; \u2013 less-than sign */\n    public const val less: Char = "\u003C"\n    /** The character
&#x3E;\n    \u2013 greater-than sign */\n    public const val greater: Char = "\u003E"\n    /** The non-breaking space character
*/\n    public const val nbsp: Char = "\u00A0"\n    /** The character &#xD7; */\n    public const val times: Char =
"\u00D7"\n    /** The character &#xA2; */\n    public const val cent: Char = "\u00A2"\n    /** The character &#xA3;
*/\n    public const val pound: Char = "\u00A3"\n    /** The character &#xA7; */\n    public const val section: Char =
"\u00A7"\n    /** The character &#xA9; */\n    public const val copyright: Char = "\u00A9"\n    /** The character
&#xAB; */\n    public const val leftGuillemete: Char = "\u00AB"\n    /** The character &#xBB; */\n    public const
val rightGuillemete: Char = "\u00BB"\n    /** The character &#xAE; */\n    public const val registered: Char =
"\u00AE"\n    /** The character &#xB0; */\n    public const val degree: Char = "\u00B0"\n    /** The character
&#xB1; */\n    public const val plusMinus: Char = "\u00B1"\n    /**
The character &#xB6; */\n    public const val paragraph: Char = "\u00B6"\n    /** The character &#xB7; */\n
    public const val middleDot: Char = "\u00B7"\n    /** The character &#xBD; */\n    public const val half: Char =
"\u00BD"\n    /** The character &#x2013; */\n    public const val ndash: Char = "\u2013"\n    /** The character
&#x2014; */\n    public const val mdash: Char = "\u2014"\n    /** The character &#x2018; */\n    public const val
leftSingleQuote: Char = "\u2018"\n    /** The character &#x2019; */\n    public const val rightSingleQuote: Char =
"\u2019"\n    /** The character &#x201A; */\n    public const val lowSingleQuote: Char = "\u201A"\n    /** The
character &#x201C; */\n    public const val leftDoubleQuote: Char = "\u201C"\n    /** The character &#x201D; */\n
    public const val rightDoubleQuote: Char = "\u201D"\n    /** The character &#x201E; */\n    public const val
lowDoubleQuote: Char = "\u201E"\n    /** The character &#x2020; */\n    public const val
dagger: Char = "\u2020"\n    /** The character &#x2021; */\n    public const val doubleDagger: Char = "\u2021"\n
    /** The character &#x2022; */\n    public const val bullet: Char = "\u2022"\n    /** The character &#x2026; */\n
    public const val ellipsis: Char = "\u2026"\n    /** The character &#x2032; */\n    public const val prime: Char =
"\u2032"\n    /** The character &#x2033; */\n    public const val doublePrime: Char = "\u2033"\n    /** The character
&#x20AC; */\n    public const val euro: Char = "\u20AC"\n    /** The character &#x2122; */\n    public const val tm:
Char = "\u2122"\n    /** The character &#x2248; */\n    public const val almostEqual: Char = "\u2248"\n    /** The
character &#x2260; */\n    public const val notEqual: Char = "\u2260"\n    /** The character &#x2264; */\n    public
const val lessOrEqual: Char = "\u2264"\n    /** The character &#x2265; */\n    public const val greaterOrEqual: Char
= "\u2265"\n}"}\n\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Represents a collection of
captured groups in a single match of a regular expression.\n */\n * This collection has size of `groupCount + 1`
where `groupCount` is the count of groups in the regular expression.\n * Groups are indexed from 1 to `groupCount`
and group with the index 0 corresponds to the entire match.\n */\n * An element of the collection at the particular

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index can be `null`,\n * if the corresponding group in the regular expression is optional and\n * there was no match
captured by that group.\n *^\npublic interface MatchGroupCollection : Collection<MatchGroup?> {\n\n /**
Returns a group with the specified [index].\n *^\n * @return An instance of [MatchGroup] if the group with the
specified [index] was matched or `null` otherwise.\n *^\n * Groups are indexed
from 1 to the count of groups in the regular expression. A group with the index 0\n * corresponds to the entire
match.\n *^\n public operator fun get(index: Int): MatchGroup?\n}\n\n/**\n * Extends [MatchGroupCollection]
by introducing a way to get matched groups by name, when regex supports it.\n *^\n@SinceKotlin("1.1")\npublic
interface MatchNamedGroupCollection : MatchGroupCollection {\n\n /**\n * Returns a named group with the
specified [name].\n * @return An instance of [MatchGroup] if the group with the specified [name] was matched
or `null` otherwise.\n * @throws IllegalArgumentException if there is no group with the specified [name] defined
in the regex pattern.\n * @throws UnsupportedOperationException if getting named groups isn't supported on the
current platform.\n *^\n public operator fun get(name: String): MatchGroup?\n}\n\n/**\n * Represents the
results from a single regular expression match.\n *^\npublic interface MatchResult {\n
/** The range of indices in the original string where match was captured. *\n public val range: IntRange\n /**
The substring from the input string captured by this match. *\n public val value: String\n /**\n * A collection
of groups matched by the regular expression.\n *^\n * This collection has size of `groupCount + 1` where
`groupCount` is the count of groups in the regular expression.\n * Groups are indexed from 1 to `groupCount` and
group with the index 0 corresponds to the entire match.\n *^\n public val groups: MatchGroupCollection\n
/**\n * A list of matched indexed group values.\n *^\n * This list has size of `groupCount + 1` where
`groupCount` is the count of groups in the regular expression.\n * Groups are indexed from 1 to `groupCount` and
group with the index 0 corresponds to the entire match.\n *^\n * If the group in the regular expression is optional
and there were no match captured by that group,\n * corresponding
item in [groupValues] is an empty string.\n *^\n * @sample
samples.text.Regexps.matchDestructuringToGroupValues\n *^\n public val groupValues: List<String>\n\n
/**\n * An instance of [MatchResult.Destructured] wrapper providing components for destructuring assignment
of group values.\n *^\n * component1 corresponds to the value of the first group, component2 \u2014 of the
second, and so on.\n *^\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\n *^\n
public val destructured: Destructured get() = Destructured(this)\n\n /** Returns a new [MatchResult] with the
results for the next match, starting at the position\n * at which the last match ended (at the character after the last
matched character).\n *^\n public fun next(): MatchResult?\n\n /**\n * Provides components for
destructuring assignment of group values.\n *^\n * [component1] corresponds to the value of the first group,
[component2] \u2014
of the second, and so on.\n *^\n * If the group in the regular expression is optional and there were no match
captured by that group,\n * corresponding component value is an empty string.\n *^\n * @sample
samples.text.Regexps.matchDestructuringToGroupValues\n *^\n public class Destructured internal
constructor(public val match: MatchResult) {\n\n @kotlin.internal.InlineOnly\n public operator inline fun
component1(): String = match.groupValues[1]\n\n @kotlin.internal.InlineOnly\n public operator inline fun
component2(): String = match.groupValues[2]\n\n @kotlin.internal.InlineOnly\n public operator inline fun
component3(): String = match.groupValues[3]\n\n @kotlin.internal.InlineOnly\n public operator inline fun
component4(): String = match.groupValues[4]\n\n @kotlin.internal.InlineOnly\n public operator inline fun
component5(): String = match.groupValues[5]\n\n @kotlin.internal.InlineOnly\n
public operator inline fun component6(): String = match.groupValues[6]\n\n @kotlin.internal.InlineOnly\n
public operator inline fun component7(): String = match.groupValues[7]\n\n @kotlin.internal.InlineOnly\n
public operator inline fun component8(): String = match.groupValues[8]\n\n @kotlin.internal.InlineOnly\n
public operator inline fun component9(): String = match.groupValues[9]\n\n @kotlin.internal.InlineOnly\n
public operator inline fun component10(): String = match.groupValues[10]\n\n /**\n * Returns
destructured group values as a list of strings.\n *^\n * First value in the returned list corresponds to the value of the
first group, and so on.\n *^\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\n

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*^n    public fun toList(): List<String> = match.groupValues.subList(1, match.groupValues.size)\n    }\n}", "/"^n *
Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.^n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.^n *^n\npackage kotlin.time\n\nimport
kotlin.math.abs\n\n@UseExperimental(ExperimentalTime::class)\nprivate inline val storageUnit get() =
DurationUnit.NANOSECONDS\n\n/**^n * Represents the amount of time one instant of time is away from another
instant.^n *^n * A negative duration is possible in a situation when the second instant is earlier than the first one.^n *
An infinite duration value [Duration.INFINITE] can be used to represent infinite timeouts.^n *^n * To construct a
duration use either the extension function [toDuration],^n * or the extension properties [hours], [minutes], [seconds],
and so on,^n * available on [Int], [Long], and [Double] numeric types.^n *^n * To get the value of this duration
expressed in a particular [duration units][DurationUnit]^n * use the functions [toInt], [toLong], and [toDouble]^n * or
the properties
[inHours], [inMinutes], [inSeconds], [inNanoseconds], and so on.^n
*^n@SinceKotlin("1.3")\n@ExperimentalTime\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_O
F_INLINE_CLASS")\npublic inline class Duration internal constructor(internal val value: Double) :
Comparable<Duration> {\n// TODO: backend fails on init block, wait for KT-28055\n//    init {\n//
require(!_value.isNaN().not())\n//    }\n\n    companion object {\n        /** The duration equal to exactly 0 seconds.
*^n    public val ZERO: Duration = Duration(0.0)\n        /** The duration whose value is positive infinity. It is
useful for representing timeouts that should never expire. *^n    public val INFINITE: Duration =
Duration(Double.POSITIVE_INFINITY)\n        /** Converts the given time duration [value] expressed in the
specified [sourceUnit] into the specified [targetUnit]. *^n    public fun convert(value: Double, sourceUnit:
DurationUnit, targetUnit: DurationUnit): Double =\n
convertDurationUnit(value, sourceUnit, targetUnit)\n    }\n\n    // arithmetic operators\n\n    /** Returns the
negative of this value. *^n    public operator fun unaryMinus(): Duration = Duration(-value)\n\n    /** Returns a
duration whose value is the sum of this and [other] duration values. *^n    public operator fun plus(other: Duration):
Duration = Duration(value + other.value)\n\n    /** Returns a duration whose value is the difference between this
and [other] duration values. *^n    public operator fun minus(other: Duration): Duration = Duration(value -
other.value)\n\n    /** Returns a duration whose value is this duration value multiplied by the given [scale] number.
*^n    public operator fun times(scale: Int): Duration = Duration(value * scale)\n\n    /** Returns a duration whose
value is this duration value multiplied by the given [scale] number. *^n    public operator fun times(scale: Double):
Duration = Duration(value * scale)\n\n    /** Returns a duration whose value
is this duration value divided by the given [scale] number. *^n    public operator fun div(scale: Int): Duration =
Duration(value / scale)\n\n    /** Returns a duration whose value is this duration value divided by the given [scale]
number. *^n    public operator fun div(scale: Double): Duration = Duration(value / scale)\n\n    /** Returns a
number that is the ratio of this and [other] duration values. *^n    public operator fun div(other: Duration): Double =
this.value / other.value\n\n    /** Returns true, if the duration value is less than zero. *^n    public fun isNegative():
Boolean = value < 0\n\n    /** Returns true, if the duration value is greater than zero. *^n    public fun isPositive():
Boolean = value > 0\n\n    /** Returns true, if the duration value is infinite. *^n    public fun isInfinite(): Boolean =
value.isInfinite()\n\n    /** Returns true, if the duration value is finite. *^n    public fun isFinite(): Boolean =
value.isFinite()\n\n    /** Returns the absolute
value of this value. The returned value is always non-negative. *^n    public val absoluteValue: Duration get() = if
(isNegative()) -this else this\n\n    override fun compareTo(other: Duration): Int =
this.value.compareTo(other.value)\n\n    // splitting to components\n\n    /**^n * Splits this duration into days,
hours, minutes, seconds, and nanoseconds and executes the given [action] with these components.^n * The result
of [action] is returned as the result of this function.^n *^n * - `nanoseconds` represents the whole number of
nanoseconds in this duration, and its absolute value is less than 1_000_000_000;^n * - `seconds` represents the
whole number of seconds in this duration, and its absolute value is less than 60;^n * - `minutes` represents the
whole number of minutes in this duration, and its absolute value is less than 60;^n * - `hours` represents the whole

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number of hours in this duration, and its absolute value is less than 24;\n    * -
`days` represents the whole number of days in this duration.\n    * If the value doesn't fit in [Int] range, i.e. it's
greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],\n    * it is coerced into that range.\n    */\n
public inline fun <T> toComponents(action: (days: Int, hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) ->
T): T =\n    action(inDays.toInt(), hoursComponent, minutesComponent, secondsComponent,
nanosecondsComponent)\n\n    /**\n    * Splits this duration into hours, minutes, seconds, and nanoseconds and
executes the given [action] with these components.\n    * The result of [action] is returned as the result of this
function.\n    */\n    * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute
value is less than 1_000_000_000;\n    * - `seconds` represents the whole number of seconds in this duration, and its
absolute value is less than 60;\n    * - `minutes` represents the whole number of minutes
in this duration, and its absolute value is less than 60;\n    * - `hours` represents the whole number of hours in this
duration.\n    * If the value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE] or less than
[Int.MIN_VALUE],\n    * it is coerced into that range.\n    */\n    public inline fun <T> toComponents(action:
(hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =\n    action(inHours.toInt(),
minutesComponent, secondsComponent, nanosecondsComponent)\n\n    /**\n    * Splits this duration into minutes,
seconds, and nanoseconds and executes the given [action] with these components.\n    * The result of [action] is
returned as the result of this function.\n    */\n    * - `nanoseconds` represents the whole number of nanoseconds in
this duration, and its absolute value is less than 1_000_000_000;\n    * - `seconds` represents the whole number of
seconds in this duration, and its absolute value is less than 60;\n    * - `minutes`
represents the whole number of minutes in this duration.\n    * If the value doesn't fit in [Int] range, i.e. it's greater
than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],\n    * it is coerced into that range.\n    */\n    public
inline fun <T> toComponents(action: (minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =\n
action(inMinutes.toInt(), secondsComponent, nanosecondsComponent)\n\n    /**\n    * Splits this duration into
seconds, and nanoseconds and executes the given [action] with these components.\n    * The result of [action] is
returned as the result of this function.\n    */\n    * - `nanoseconds` represents the whole number of nanoseconds in
this duration, and its absolute value is less than 1_000_000_000;\n    * - `seconds` represents the whole number of
seconds in this duration.\n    * If the value doesn't fit in [Long] range, i.e. it's greater than [Long.MAX_VALUE]
or less than [Long.MIN_VALUE],\n    * it is coerced into that range.\n
*/\n    public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T): T =\n
action(inSeconds.toLong(), nanosecondsComponent)\n\n    @PublishedApi\n    internal val hoursComponent: Int
get() = (inHours % 24).toInt()\n    @PublishedApi\n    internal val minutesComponent: Int get() = (inMinutes %
60).toInt()\n    @PublishedApi\n    internal val secondsComponent: Int get() = (inSeconds % 60).toInt()\n
    @PublishedApi\n    internal val nanosecondsComponent: Int get() = (inNanoseconds % 1e9).toInt()\n\n    //
conversion to units\n    /** Returns the value of this duration expressed as a [Double] number of the specified
[unit]. */\n    public fun toDouble(unit: DurationUnit): Double = convertDurationUnit(value, storageUnit, unit)\n\n
/**\n    * Returns the value of this duration expressed as a [Long] number of the specified [unit].\n    */\n    * If the
value doesn't fit in the range of [Long] type, it is coerced into that range, see the conversion [Double.toLong]
for details.\n    */\n    public fun toLong(unit: DurationUnit): Long = toDouble(unit).toLong()\n\n    /**\n    *
Returns the value of this duration expressed as an [Int] number of the specified [unit].\n    */\n    * If the value
doesn't fit in the range of [Int] type, it is coerced into that range, see the conversion [Double.toInt] for details.\n
*/\n    public fun toInt(unit: DurationUnit): Int = toDouble(unit).toInt()\n\n    /** The value of this duration
expressed as a [Double] number of days. */\n    public val inDays: Double get() =
toDouble(DurationUnit.DAYS)\n\n    /** The value of this duration expressed as a [Double] number of hours. */\n
    public val inHours: Double get() = toDouble(DurationUnit.HOURS)\n\n    /** The value of this duration expressed
as a [Double] number of minutes. */\n    public val inMinutes: Double get() =
toDouble(DurationUnit.MINUTES)\n\n    /** The value of this duration expressed as a [Double] number of seconds.
*/\n    public val

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inSeconds: Double get() = toDouble(DurationUnit.SECONDS)\n\n /** The value of this duration expressed as a
[Double] number of milliseconds. */\n public val inMilliseconds: Double get() =
toDouble(DurationUnit.MILLISECONDS)\n\n /** The value of this duration expressed as a [Double] number of
microseconds. */\n public val inMicroseconds: Double get() = toDouble(DurationUnit.MICROSECONDS)\n\n
/** The value of this duration expressed as a [Double] number of nanoseconds. */\n public val inNanoseconds:
Double get() = toDouble(DurationUnit.NANOSECONDS)\n\n // shortcuts\n\n /**\n * Returns the value of
this duration expressed as a [Long] number of nanoseconds.\n * \n * If the value doesn't fit in the range of
[Long] type, it is coerced into that range, see the conversion [Double.toLong] for details.\n * \n * The range of
durations that can be expressed as a `Long` number of nanoseconds is approximately \u00b1292 years.\n * \n
public fun toLongNanoseconds():
Long = toLong(DurationUnit.NANOSECONDS)\n\n /**\n * Returns the value of this duration expressed as a
[Long] number of milliseconds.\n * \n * The value is coerced to the range of [Long] type, if it doesn't fit in that
range, see the conversion [Double.toLong] for details.\n * \n * The range of durations that can be expressed as a
`Long` number of milliseconds is approximately \u00b1292 million years.\n * \n public fun
toLongMilliseconds(): Long = toLong(DurationUnit.MILLISECONDS)\n\n /**\n * Returns a string
representation of this duration value expressed in the unit which yields the most compact and readable number
value.\n * \n * Special cases:\n * - zero duration is formatted as `"0s"`\n * - the infinite duration is
formatted as `"Infinity"` without unit\n * - very small durations (less than 1e-15 s) are expressed in seconds and
formatted in scientific notation\n * - very big durations (more than 1e+7 days)
are expressed in days and formatted in scientific notation\n * \n * @return the value of duration in the
automatically determined unit followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, or `ns`.\n * \n
* @sample samples.time.Durations.toStringDefault\n * \n override fun toString(): String = when {\n
isInfinite() -> value.toString()\n value == 0.0 -> "0s"\n else -> {\n val absNs =
absoluteValue.inNanoseconds\n var scientific = false\n var maxDecimals = 0\n val unit = when
{\n absNs < 1e-6 -> DurationUnit.SECONDS.also { scientific = true }\n absNs < 1 ->
DurationUnit.NANOSECONDS.also { maxDecimals = 7 }\n absNs < 1e3 ->
DurationUnit.NANOSECONDS\n absNs < 1e6 -> DurationUnit.MICROSECONDS\n absNs <
1e9 -> DurationUnit.MILLISECONDS\n absNs < 1000e9 -> DurationUnit.SECONDS\n absNs
< 60_000e9 -> DurationUnit.MINUTES\n absNs < 3600_000e9 -> DurationUnit.HOURS\n
absNs < 86400e9 * 1e7 -> DurationUnit.DAYS\n else -> DurationUnit.DAYS.also { scientific = true }\n
}\n val value = toDouble(unit)\n when {\n scientific -> formatScientific(value)\n
maxDecimals > 0 -> formatUpToDecimals(value, maxDecimals)\n else -> formatToExactDecimals(value,
precision(abs(value)))\n } + unit.shortName()\n }\n }\n\n private fun precision(value: Double): Int =
when {\n value < 1 -> 3\n value < 10 -> 2\n value < 100 -> 1\n else -> 0\n }\n\n /**\n *
Returns a string representation of this duration value expressed in the given [unit]\n * and formatted with the
specified [decimals] number of digits after decimal point.\n * \n * Special cases:\n * - the infinite duration is
formatted as `"Infinity"`
without unit\n * \n * @return the value of duration in the specified [unit] followed by that unit abbreviated
name: `d`, `h`, `m`, `s`, `ms`, `us`, or `ns`.\n * \n * @throws IllegalArgumentException if [decimals] is less than
zero.\n * \n * @sample samples.time.Durations.toStringDecimals\n * \n public fun toString(unit:
DurationUnit, decimals: Int = 0): String {\n require(decimals >= 0) { "decimals must be not negative, but was
$decimals" }\n if (isInfinite()) return value.toString()\n val number = toDouble(unit)\n return when {\n
abs(number) < 1e14 -> formatToExactDecimals(number, decimals.coerceAtMost(12))\n else ->
formatScientific(number)\n } + unit.shortName()\n }\n\n\n /**\n * Returns an ISO-8601 based string
representation of this duration.\n * \n * The returned value is presented in the format `PThHmMs.fS`, where `h`,
`m`, `s` are the integer components of this duration
(see [toComponents])\n * and `f` is a fractional part of second. Depending on the roundness of the value the
fractional part can be formatted with either\n * 0, 3, 6, or 9 decimal digits.\n * \n * If the hours component

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absolute value of this duration is greater than [Int.MAX\_VALUE], it is replaced with [Int.MAX\_VALUE],  
 the infinite duration is formatted as "PT2147483647H",  
 Negative durations are indicated with the sign '-' in the beginning of the returned string, for example, "-PT5M30S".

```

@sample
samples.time.Durations.toIsoString
@UseExperimental(ExperimentalStdlibApi::class)
public fun
toIsoString(): String = buildString {
    if (isNegative()) append('-')
    append("PT")
    absoluteValue.toComponents { hours, minutes, seconds, nanoseconds ->
        val hasHours = hours != 0
        val hasSeconds = seconds != 0 || nanoseconds != 0
        val hasMinutes = minutes
        != 0 || (hasSeconds && hasHours)
        if (hasHours) {
            append(hours).append('H')
        }
        if (hasMinutes) {
            append(minutes).append('M')
        }
        if (hasSeconds || (!hasHours &&
        !hasMinutes)) {
            append(seconds)
            if (nanoseconds != 0) {
                append('.')
                val nss = nanoseconds.toString().padStart(9, '0')
                when {
                    nanoseconds % 1_000_000
                    == 0 -> appendRange(nss, 0, 3)
                    nanoseconds % 1_000 == 0 -> appendRange(nss, 0, 6)
                    else -> append(nss)
                }
                append('S')
            }
        }
    }
}

```

constructing from number of units  
 extension functions  
 Returns a [Duration] equal to this [Int] number of the specified [unit].

```

@SinceKotlin("1.3")
@ExperimentalTime
public fun Int.toDuration(unit:
DurationUnit): Duration = toDouble().toDuration(unit)

```

Returns a [Duration] equal to this [Long] number of the specified [unit].

```

@SinceKotlin("1.3")
@ExperimentalTime
public fun Long.toDuration(unit:
DurationUnit): Duration = toDouble().toDuration(unit)

```

Returns a [Duration] equal to this [Double] number of the specified [unit].

```

@SinceKotlin("1.3")
@ExperimentalTime
public fun Double.toDuration(unit:
DurationUnit): Duration = Duration(convertDurationUnit(this, unit, storageUnit))

```

constructing from number of units  
 extension properties  
 Returns a [Duration] equal to this [Int] number of nanoseconds.

```

@SinceKotlin("1.3")
@ExperimentalTime
public val Int.nanoseconds get() =
toDuration(DurationUnit.NANOSECONDS)

```

Returns a [Duration] equal to this [Long] number of nanoseconds.

```

@SinceKotlin("1.3")
@ExperimentalTime
public val Long.nanoseconds get() =
toDuration(DurationUnit.NANOSECONDS)

```

Returns a [Duration] equal to this [Double] number of nanoseconds.

```

@SinceKotlin("1.3")
@ExperimentalTime
public val Double.nanoseconds get() =
toDuration(DurationUnit.NANOSECONDS)

```

Returns a [Duration] equal to this [Int] number of microseconds.

```

@SinceKotlin("1.3")
@ExperimentalTime
public val Int.microseconds get() =
toDuration(DurationUnit.MICROSECONDS)

```

Returns a [Duration] equal to this [Long] number of microseconds.

```

@SinceKotlin("1.3")
@ExperimentalTime
public val Long.microseconds get() =
toDuration(DurationUnit.MICROSECONDS)

```

Returns a [Duration] equal to this [Double] number of microseconds.

```

@SinceKotlin("1.3")
@ExperimentalTime
public val Double.microseconds get() =
toDuration(DurationUnit.MICROSECONDS)

```

Returns a [Duration] equal to this [Int] number of milliseconds.

```

@SinceKotlin("1.3")
@ExperimentalTime
public val Int.milliseconds get() =
toDuration(DurationUnit.MILLISECONDS)

```

Returns a [Duration] equal to this [Long] number of milliseconds.

```

@SinceKotlin("1.3")
@ExperimentalTime
public val Long.milliseconds get() =
toDuration(DurationUnit.MILLISECONDS)

```

Returns a [Duration] equal to this [Double] number of milliseconds.

```

@SinceKotlin("1.3")
@ExperimentalTime
public val Double.milliseconds get() =
toDuration(DurationUnit.MILLISECONDS)

```

Returns a [Duration] equal to this [Int] number of seconds.

```

@SinceKotlin("1.3")
@ExperimentalTime
public val Int.seconds get() =
toDuration(DurationUnit.SECONDS)

```

Returns a [Duration] equal to this [Long] number of seconds.

```

@SinceKotlin("1.3")
@ExperimentalTime
public val Long.seconds get() =
toDuration(DurationUnit.SECONDS)

```

Returns a [Duration] equal to this [Double] number of seconds.

```

@SinceKotlin("1.3")
@ExperimentalTime
public val Double.seconds get() =
toDuration(DurationUnit.SECONDS)

```

Returns a [Duration] equal to this [Int] number of minutes.

```

@SinceKotlin("1.3")
@ExperimentalTime
public val Int.minutes
get() = toDuration(DurationUnit.MINUTES)

```

Returns a [Duration] equal to this [Long] number of minutes.

```

@SinceKotlin("1.3")
@ExperimentalTime
public val Long.minutes get() =

```

```

toDuration(DurationUnit.MINUTES)\n\n/** Returns a [Duration] equal to this [Double] number of minutes.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.minutes get() =
toDuration(DurationUnit.MINUTES)\n\n/** Returns a [Duration] equal to this [Int] number of hours.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Int.hours get() =
toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Long] number of hours.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Long.hours get() =
toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Double] number of hours.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.hours get() =
toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Int] number of days.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic
val Int.days get() = toDuration(DurationUnit.DAYS)\n\n/** Returns a [Duration] equal to this [Long] number of
days. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Long.days get() =
toDuration(DurationUnit.DAYS)\n\n/** Returns a [Duration] equal to this [Double] number of days.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.days get() =
toDuration(DurationUnit.DAYS)\n\n/** Returns a duration whose value is the specified [duration] value
multiplied by this number. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@kotlin.internal.InlineOnly\npublic
inline operator fun Int.times(duration: Duration): Duration = duration * this\n\n/** Returns a duration whose value
is the specified [duration] value multiplied by this number.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@kotlin.internal.InlineOnly\npublic inline operator fun
Double.times(duration: Duration): Duration = duration * this\n\n\ninternal expect fun
formatToExactDecimals(value:
Double, decimals: Int): String\n\ninternal expect fun formatUpToDecimals(value: Double, decimals: Int):
String\n\ninternal expect fun formatScientific(value: Double): String", "/*\n * Copyright 2010-2019 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass()\n@file:kotlin.jvm.JvmName("DurationUnitKt")\n\n\npackage
kotlin.time\n\n\n/**\n * The list of possible time measurement units, in which a duration can be expressed.\n *
*\n * The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24
[HOURS].\n *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic expect enum class DurationUnit {\n /**\n
* Time unit representing one nanosecond, which is 1/1000 of a microsecond.\n /*\n NANOSECONDS,\n
/**\n * Time unit representing one microsecond, which is 1/1000
of a millisecond.\n /*\n MICROSECONDS,\n /**\n * Time unit representing one millisecond, which is
1/1000 of a second.\n /*\n MILLISECONDS,\n /**\n * Time unit representing one second.\n /*\n
SECONDS,\n /**\n * Time unit representing one minute.\n /*\n MINUTES,\n /**\n * Time unit
representing one hour.\n /*\n HOURS,\n /**\n * Time unit representing one day, which is always equal to
24 hours.\n /*\n DAYS;\n}\n\n\n/** Converts the given time duration [value] expressed in the specified
[sourceUnit] into the specified [targetUnit]. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n\ninternal expect fun
convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit):
Double\n\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n\ninternal fun DurationUnit.shortName(): String = when
(this) {\n DurationUnit.NANOSECONDS -> "\ns"\n DurationUnit.MICROSECONDS -> "\nus"\n
DurationUnit.MILLISECONDS -> "\ms"\n
DurationUnit.SECONDS -> "\s"\n DurationUnit.MINUTES -> "\m"\n DurationUnit.HOURS -> "\h"\n
DurationUnit.DAYS -> "\d"\n}", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n\npackage kotlin.time\n\n\nimport kotlin.annotation.AnnotationTarget.*\n\n\n/**
This annotation marks the experimental preview of the standard library API for measuring time and working with
durations.\n *\n * > Note that this API is in a preview state and has a very high chance of being changed in the
future.\n * Do not use it if you develop a library since your library will become binary incompatible\n * with the

```

future versions of the standard library.

\* Any usage of a declaration annotated with `@ExperimentalTime` must be accepted either by

- annotating that usage with the `[OptIn]` annotation, e.g. `@OptIn(ExperimentalTime::class)`,
- or by using the compiler argument `-Xopt-in=kotlin.time.ExperimentalTime`.

`@Suppress("DEPRECATION") @Experimental(level = Experimental.Level.ERROR) @RequiresOptIn(level = RequiresOptIn.Level.ERROR) @MustBeDocumented @Retention(AnnotationRetention.BINARY) @Target(CLASS, ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, TYPEALIAS)` `@SinceKotlin("1.3")` `public annotation class ExperimentalTime`

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`package kotlin.time`

\* A source of time for measuring time intervals.

\* The only operation provided by the time source is `[markNow]`. It returns a `[TimeMark]`, which can be used to query the elapsed time later.

\* @see `[measureTime]` \* @see `[measureTimedValue]`

`@SinceKotlin("1.3") @ExperimentalTime` `public interface TimeSource` {

- \* Marks a point in time on this time source.
- \* The returned `[TimeMark]` instance encapsulates the captured time point and allows querying
  - the duration of time interval `[elapsed]` `[TimeMark.elapsedNow]` from that point.

`public fun markNow(): TimeMark`

- \* The most precise time source available in the platform.
- \* This time source returns its readings from a source of monotonic time when it is available in a target platform, and resorts to a non-monotonic time source otherwise.

`public object Monotonic : TimeSource by MonotonicTimeSource` {

- override fun `toString(): String = MonotonicTimeSource.toString()`

`public companion object` {

- \* Represents a time point notched on a particular `[TimeSource]`. Remains bound to the time source
- it was taken from
- and allows querying for the duration of time elapsed from that point (see the function `[elapsedNow]`).

`@SinceKotlin("1.3") @ExperimentalTime` `public abstract class TimeMark` {

- \* Returns the amount of time passed from this mark measured with the time source from which this mark was taken.
- \* Note that the value returned by this function can change on subsequent invocations.
- public abstract fun `elapsedNow(): Duration`
- \* Returns a time mark on the same time source that is ahead of this time mark by the specified `[duration]`.
- \* The returned time mark is more `_late_` when the `[duration]` is positive, and more `_early_` when the `[duration]` is negative.
- public open operator fun `plus(duration: Duration): TimeMark = AdjustedTimeMark(this, duration)`
- \* Returns a time mark on the same time source that is behind this time mark by the specified `[duration]`.
- \* The returned time mark is more `_early_` when the `[duration]` is positive, and more `_late_` when the `[duration]` is negative.
- public open operator fun `minus(duration: Duration): TimeMark = plus(-duration)`
- \* Returns true if this time mark has passed according to the time source from which this mark was taken.
- \* Note that the value returned by this function can change on subsequent invocations.
- \* If the time source is monotonic, it can change only from ``false`` to ``true``, namely, when the time mark becomes behind the current point of the time source.
- public fun `hasPassedNow(): Boolean = !elapsedNow().isNegative()`
- \* Returns false if this time mark has not passed according to the time source from which this mark was taken.
- \* Note that the value returned by this function can change on subsequent invocations.
- \* If the time source is monotonic, it can change only from ``true`` to ``false``, namely, when the time mark becomes behind the current point of the time source.
- public fun `hasNotPassedNow(): Boolean = elapsedNow().isNegative()`

`@ExperimentalTime @SinceKotlin("1.3") @kotlin.internal.InlineOnly @Deprecated("Subtracting one TimeMark from another is not a well defined operation because these time marks could have been obtained from the different time sources.")` `level = DeprecationLevel.ERROR` `public inline`

```

operator fun TimeMark.minus(other: TimeMark): Duration = throw Error("Operation is
disallowed.")\n\n@ExperimentalTime\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Deprecated(\n
"Comparing one TimeMark to another is not a well defined operation because these time marks could have been
obtained from the different time sources.")\n    level = DeprecationLevel.ERROR\n)\n\npublic inline operator fun
TimeMark.compareTo(other: TimeMark): Int = throw Error("Operation is
disallowed.")\n\n\n@ExperimentalTime\nprivate class AdjustedTimeMark(val
mark: TimeMark, val adjustment: Duration) : TimeMark() {\n    override fun elapsedNow(): Duration =
mark.elapsedNow() - adjustment\n\n    override fun plus(duration: Duration): TimeMark =
AdjustedTimeMark(mark, adjustment +
duration)\n}\n\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use TimeSource interface
instead.")\n    ReplaceWith("TimeSource", "kotlin.time.TimeSource")\n\npublic typealias Clock =
TimeSource\n\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use TimeMark class instead.")\n    ReplaceWith("TimeMark", "kotlin.time.TimeMark")\n\n\npublic typealias ClockMark = TimeMark\n"/*\n *
Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.time\n\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal expect object MonotonicTimeSource :
TimeSource\n\n/**\n * An abstract class
used to implement time sources that return their readings as [Long] values in the specified [unit].\n * \n * @property
unit The unit in which this time source's readings are expressed.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic abstract class AbstractLongTimeSource(protected val
unit: DurationUnit) : TimeSource {\n    /**\n     * This protected method should be overridden to return the current
reading of the time source expressed as a [Long] number\n     * in the unit specified by the [unit] property.\n     */\n\n    protected abstract fun read(): Long\n\n    private class LongTimeMark(private val startedAt: Long, private val
timeSource: AbstractLongTimeSource, private val offset: Duration) : TimeMark() {\n        override fun
elapsedNow(): Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset\n        override fun
plus(duration: Duration): TimeMark = LongTimeMark(startedAt, timeSource, offset + duration)\n    }\n\n    override
fun markNow(): TimeMark
= LongTimeMark(read(), this, Duration.ZERO)\n}\n\n\n/**\n * An abstract class used to implement time sources that
return their readings as [Double] values in the specified [unit].\n * \n * @property unit The unit in which this time
source's readings are expressed.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic abstract class
AbstractDoubleTimeSource(protected val unit: DurationUnit) : TimeSource {\n    /**\n     * This protected method
should be overridden to return the current reading of the time source expressed as a [Double] number\n     * in the
unit specified by the [unit] property.\n     */\n\n    protected abstract fun read(): Double\n\n    private class
DoubleTimeMark(private val startedAt: Double, private val timeSource: AbstractDoubleTimeSource, private val
offset: Duration) : TimeMark() {\n        override fun elapsedNow(): Duration = (timeSource.read() -
startedAt).toDuration(timeSource.unit) - offset\n        override fun plus(duration: Duration): TimeMark =
DoubleTimeMark(startedAt,
timeSource, offset + duration)\n    }\n\n    override fun markNow(): TimeMark = DoubleTimeMark(read(), this,
Duration.ZERO)\n}\n\n\n/**\n * A time source that has programmatically updatable readings. It is useful as a
predictable source of time in tests.\n * \n * The current reading value can be advanced by the specified duration
amount with the operator [plusAssign]:\n * \n * ```\n * val timeSource = TestTimeSource()\n * timeSource +=
10.seconds\n * ```\n * \n * Implementation note: the current reading value is stored as a [Long] number of
nanoseconds,\n * thus it's capable to represent a time range of approximately \u00b1292 years.\n * Should the
reading value overflow as the result of [plusAssign] operation, an [IllegalStateException] is thrown.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic class TestTimeSource : AbstractLongTimeSource(unit =
DurationUnit.NANOSECONDS) {\n    private var reading: Long = 0L\n\n    override fun read(): Long = reading\n\n
}/**\n

```

```

    * Advances the current reading value of this time source by the specified [duration].\n
    * [duration] value is rounded down towards zero when converting it to a [Long] number of nanoseconds.\n
    * For example, if the duration being added is `0.6.nanoseconds`, the reading doesn't advance because\n
    * the duration value is rounded to zero nanoseconds.\n
    * @throws IllegalStateException when the reading value overflows as the result of this operation.\n
    public operator fun plusAssign(duration: Duration) {\n
        val delta = duration.toDouble(unit)\n
        val longDelta = delta.toLong()\n
        reading = if (longDelta != Long.MIN_VALUE && longDelta != Long.MAX_VALUE) {\n
            // when delta fits in long, add it as long\n
            val newReading = reading + longDelta\n
            if (reading xor longDelta >= 0 && reading xor newReading < 0) overflow(duration)\n
            newReading\n
        } else {\n
            // when delta is greater than long, add it as double\n
            val newReading = reading + delta\n
            if (newReading > Long.MAX_VALUE || newReading < Long.MIN_VALUE) overflow(duration)\n
            newReading.toLong()\n
        }\n
    }\n
    private fun overflow(duration: Duration) {\n
        throw IllegalStateException("TestTimeSource will overflow if its reading ${reading}ns is advanced by $duration.")\n
    }\n
}\n
\n
@SinceKotlin("1.3")\n
@ExperimentalTime\n
@Deprecated("Use TimeSource.Monotonic instead.", ReplaceWith("TimeSource.Monotonic", "kotlin.time.TimeSource"))\n
public typealias MonoClock = TimeSource.Monotonic\n
\n
@SinceKotlin("1.3")\n
@ExperimentalTime\n
@Deprecated("Use AbstractLongTimeSource instead.", ReplaceWith("AbstractLongTimeSource", "kotlin.time.AbstractLongTimeSource"))\n
public typealias AbstractLongClock = AbstractLongTimeSource\n
\n
@SinceKotlin("1.3")\n
@ExperimentalTime\n
@Deprecated("Use AbstractDoubleTimeSource instead.", ReplaceWith("AbstractDoubleTimeSource", "kotlin.time.AbstractDoubleTimeSource"))\n
public typealias AbstractDoubleClock = AbstractDoubleTimeSource\n
\n
@SinceKotlin("1.3")\n
@ExperimentalTime\n
@Deprecated("Use TestTimeSource instead.", ReplaceWith("TestTimeSource", "kotlin.time.TestTimeSource"))\n
public typealias TestClock = TestTimeSource\n
"/**\n
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
 */\n
\n
package kotlin.time\n
import kotlin.contracts.*\n
\n
/**\n
 * Executes the given function [block] and returns the duration of elapsed time interval.\n
 * The elapsed time is measured with [TimeSource.Monotonic].\n
 */\n
@SinceKotlin("1.3")\n
@ExperimentalTime\n
public inline fun measureTime(block: () -> Unit): Duration {\n
    contract {\n
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n
    }\n
    return TimeSource.Monotonic.measureTime(block)\n
}\n
\n
/**\n
 * Executes the given function [block] and returns the duration of elapsed time interval.\n
 * The elapsed time is measured with the specified `this` [TimeSource] instance.\n
 */\n
@SinceKotlin("1.3")\n
@ExperimentalTime\n
public inline fun TimeSource.measureTime(block: () -> Unit): Duration {\n
    contract {\n
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n
    }\n
    val mark = markNow()\n
    block()\n
    return mark.elapsedNow()\n
}\n
\n
/**\n
 * Data class representing a result of executing an action, along with the duration of elapsed time interval.\n
 * @property value the result of the action.\n
 * @property duration the time elapsed to execute the action.\n
 */\n
@SinceKotlin("1.3")\n
@ExperimentalTime\n
public data class TimedValue<T>(val value: T, val duration: Duration)\n
\n
/**\n
 * Executes the given function [block] and returns an instance of [TimedValue] class, containing both\n
 * the result of the function execution and the duration of elapsed time interval.\n
 * The elapsed time is measured with [TimeSource.Monotonic].\n
 */\n
@SinceKotlin("1.3")\n
@ExperimentalTime\n
public inline fun <T> measureTimedValue(block: () -> T): TimedValue<T> {\n
    contract {\n
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n
    }\n
    return TimeSource.Monotonic.measureTimedValue(block)\n
}\n
\n
/**\n
 * Executes the given [block] and returns an instance of [TimedValue] class, containing both\n
 * the result of function execution and the duration of elapsed time interval.\n
 * The elapsed time is measured with the specified `this` [TimeSource] instance.\n
 */\n
@SinceKotlin("1.3")\n
@ExperimentalTime\n
public inline fun <T> TimeSource.measureTimedValue(block: () -> T): TimedValue<T> {\n
    contract {\n
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n
    }\n
}

```

```

val mark = markNow()\n    val result = block()\n    return TimedValue(result, mark.elapsedNow())\n}\n"/*\n *
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin\n\nimport kotlin.internal.InlineOnly\n\n/**\n * Returns a hash code value for the object or
zero if the object is `null`.\n * @see Any.hashCode\n */\n@SinceKotlin("1.3")\n@InlineOnly\npublic inline
fun Any?.hashCode(): Int = this?.hashCode() ?: 0\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Represents a version of the Kotlin standard
library.\n * [major], [minor] and [patch] are integer components of a version,\n * they must be non-negative and
not greater than 255 ([MAX_COMPONENT_VALUE]).\n * @constructor Creates a version from all three
components.\n */\n@SinceKotlin("1.1")\npublic class KotlinVersion(val major: Int, val minor:
Int, val patch: Int) : Comparable<KotlinVersion> {\n    /**\n     * Creates a version from [major] and [minor]
components, leaving [patch] component zero.\n     */\n    public constructor(major: Int, minor: Int) : this(major,
minor, 0)\n    private val version = versionOf(major, minor, patch)\n    private fun versionOf(major: Int, minor:
Int, patch: Int): Int {\n        require(major in 0..MAX_COMPONENT_VALUE && minor in
0..MAX_COMPONENT_VALUE && patch in 0..MAX_COMPONENT_VALUE) {\n            "Version
components are out of range: $major.$minor.$patch"\n        }\n        return major.shl(16) + minor.shl(8) + patch\n
}\n    /**\n     * Returns the string representation of this version\n     */\n    override fun toString(): String =
"$major.$minor.$patch"\n    override fun equals(other: Any?): Boolean {\n        if (this === other) return true\n
        val otherVersion = (other as? KotlinVersion) ?: return false\n        return this.version == otherVersion.version\n
}\n\n    override fun hashCode(): Int = version\n    override fun compareTo(other: KotlinVersion): Int = version -
other.version\n    /**\n     * Returns `true` if this version is not less than the version specified\n     * with the
provided [major] and [minor] components.\n     */\n    public fun isAtLeast(major: Int, minor: Int): Boolean = //
this.version >= versionOf(major, minor, 0)\n        this.major > major || (this.major == major &&\n
this.minor >= minor)\n    /**\n     * Returns `true` if this version is not less than the version specified\n     * with
the provided [major], [minor] and [patch] components.\n     */\n    public fun isAtLeast(major: Int, minor: Int, patch:
Int): Boolean = // this.version >= versionOf(major, minor, patch)\n        this.major > major || (this.major == major
&&\n            (this.minor > minor || this.minor == minor &&\n                this.patch >= patch))\n\n    companion object {\n        /**\n         * Maximum value
a version component can have, a constant value 255.\n         */\n        // NOTE: Must be placed before CURRENT
because its initialization requires this field being initialized in JS\n        public const val
MAX_COMPONENT_VALUE = 255\n        /**\n         * Returns the current version of the Kotlin standard
library.\n         */\n        @kotlin.jvm.JvmField\n        public val CURRENT: KotlinVersion = KotlinVersion(1, 3,
70) // value is written here automatically during build\n    }\n}\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName("LateinitKt")\n@file:Suppress("unused")\n\npackage kotlin\n\nimport
kotlin.internal.InlineOnly\nimport kotlin.internal.AccessibleLateinitPropertyLiteral\nimport
kotlin.reflect.KProperty0\n\n/**\n * Returns `true` if this lateinit property has been assigned
a value, and `false` otherwise.\n * Cannot be used in an inline function, to avoid binary compatibility issues.\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\ninline val @receiver:AccessibleLateinitPropertyLiteral
KProperty0<*>.isInitialized: Boolean\n    get() = throw NotImplementedError("Implementation is
intrinsic")\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName("LazyKt")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage kotlin\n\nimport
kotlin.reflect.KProperty\n\n/**\n * Represents a value with lazy initialization.\n * To create an instance of
[Lazy] use the [lazy] function.\n */\n\npublic interface Lazy<out T> {\n    /**\n     * Gets the lazily initialized value of

```

the current Lazy instance.

- \* Once the value was initialized it must not change during the rest of lifetime of this Lazy instance.

```

public val value: T
/**
 * Returns `true` if a value for this Lazy instance has
 been already initialized, and `false` otherwise.
 * Once this function has returned `true` it stays `true` for the rest
 of lifetime of this Lazy instance.
 */
public fun isInitialized(): Boolean

```

Creates a new instance of the [Lazy] that is already initialized with the specified [value].

```

public fun <T> lazyOf(value: T): Lazy<T> =
 InitializedLazyImpl(value)

```

An extension to delegate a read-only property of type [T] to an instance of [Lazy].

- \* This extension allows to use instances of Lazy for property delegation:

```

val property: String by lazy { initializer }

```

@kotlin.internal.InlineOnly

```

public inline operator fun <T> Lazy<T>.getValue(thisRef: Any?, property: KProperty<*>): T = value

```

Specifies how a [Lazy] instance synchronizes initialization among multiple threads.

```

public enum class LazyThreadSafetyMode {
 /**
 * Locks are used to ensure that only a single thread can initialize the [Lazy] instance.
 */
 SYNCHRONIZED,
 /**
 * Initializer function can be called several times on concurrent access to
 uninitialized [Lazy] instance value,
 * but only the first returned value will be used as the value of [Lazy]
 instance.
 */
 PUBLICATION,
 /**
 * No locks are used to synchronize an access to the [Lazy]
 instance value; if the instance is accessed from multiple threads, its behavior is undefined.
 * This mode
 * should not be used unless the [Lazy] instance is guaranteed never to be initialized from more than one thread.
 */
 NONE,
 }

```

internal object UNINITIALIZED\_VALUE

```

// internal to be called from lazy in
JS\internal class UnsafeLazyImpl<out T>(initializer: () -> T) : Lazy<T>, Serializable {
 private var initializer: () -> T? = initializer
 private var _value: Any? = UNINITIALIZED_VALUE
 override val value: T
 get() {
 if (_value === UNINITIALIZED_VALUE) {
 _value = initializer!()
 initializer = null
 }
 @Suppress("UNCHECKED_CAST")
 return _value as T
 }
 override fun isInitialized(): Boolean = _value != UNINITIALIZED_VALUE
 override fun toString(): String = if (isInitialized()) value.toString() else "Lazy value not initialized yet."
 private fun writeReplace(): Any = InitializedLazyImpl(value)
 }

```

internal class InitializedLazyImpl<out T>(override val value: T) : Lazy<T>, Serializable {

```

 override fun isInitialized(): Boolean = true
 override fun toString(): String = value.toString()
 }

```

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```

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("NumbersKt")
package kotlin
/**
 * Counts the number of set bits in the binary representation of this [Int] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Int.countOneBits(): Int
/**
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Int.countLeadingZeroBits(): Int
/**
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Int.countTrailingZeroBits(): Int
/**
 * Returns a number having a single bit set in the position of the most significant set bit of this [Int] number,
 * or zero, if this number is zero.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Int.takeHighestOneBit(): Int
/**
 * Returns a number having a single bit set in the position of the least significant set bit of this [Int] number,
 * or zero, if this number is zero.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Int.takeLowestOneBit(): Int
/**
 * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of bits.
 * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.
 * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:
 * number.rotateLeft(-n) == number.rotateRight(n)
 * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally
 * number.rotateLeft(n) == number.rotateLeft(n % 32)
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public expect fun Int.rotateLeft(bitCount: Int): Int
/**
 * Rotates the binary representation of this [Int] number right by the specified

```

[bitCount] number of bits.  
 \* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.  
 \* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:  
 $\text{number.rotateRight}(-n) == \text{number.rotateLeft}(n)$   
 \* Rotating by a multiple of [Int.SIZE\_BITS] (32) returns the same number, or more generally  
 $\text{number.rotateRight}(n) == \text{number.rotateRight}(n \% 32)$   
 \* SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Int.rotateRight(bitCount: Int): Int  
 \* Counts the number of set bits in the binary representation of this [Long] number.  
 \* SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Long.countOneBits(): Int  
 \* Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.  
 \* SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Long.countLeadingZeroBits(): Int  
 \* Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.  
 \* SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Long.countTrailingZeroBits(): Int  
 \* Returns a number having a single bit set in the position of the most significant set bit of this [Long] number, or zero, if this number is zero.  
 \* SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Long.takeHighestOneBit(): Long  
 \* Returns a number having a single bit set in the position of the least significant set bit of this [Long] number, or zero, if this number is zero.  
 \* SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Long.takeLowestOneBit(): Long  
 \* Rotates the binary representation of this [Long] number left by the specified [bitCount] number of bits.  
 \* The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.  
 \* Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:  
 $\text{number.rotateLeft}(-n) == \text{number.rotateRight}(n)$   
 \* Rotating by a multiple of [Long.SIZE\_BITS] (64) returns the same number, or more generally  
 $\text{number.rotateLeft}(n) == \text{number.rotateLeft}(n \% 64)$   
 \* SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Long.rotateLeft(bitCount: Int): Long  
 \* Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.  
 \* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.  
 \* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:  
 $\text{number.rotateRight}(-n) == \text{number.rotateLeft}(n)$   
 \* Rotating by a multiple of [Long.SIZE\_BITS] (64) returns the same number, or more generally  
 $\text{number.rotateRight}(n) == \text{number.rotateRight}(n \% 64)$   
 \* SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Long.rotateRight(bitCount: Int): Long  
 \* Counts the number of set bits in the binary representation of this [Byte] number.  
 \* SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countOneBits(): Int = (toInt() and 0xFF).countOneBits()  
 \* Counts the number of consecutive most significant bits that are zero in the binary representation of this [Byte] number.  
 \* SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countLeadingZeroBits(): Int = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE\_BITS - Byte.SIZE\_BITS)  
 \* Counts the number of consecutive least significant bits that are zero in the binary representation of this [Byte] number.  
 \* SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countTrailingZeroBits(): Int = (toInt() or 0x100).countTrailingZeroBits()  
 \* Returns a number having a single bit set in the position of the most significant set bit of this [Byte] number, or zero, if this number is zero.  
 \* SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun Byte.takeHighestOneBit(): Byte = (toInt() and 0xFF).takeHighestOneBit().toByte()  
 \* Returns a number having a single bit set in the position of the least significant set bit of this [Byte] number, or zero, if this number is zero.  
 \* SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun Byte.takeLowestOneBit(): Byte = toInt().takeLowestOneBit().toByte()  
 \* Rotates the binary representation of this [Byte] number left by the specified [bitCount] number of bits.  
 \* The most significant bits



```

kotlin.internal.RequireKotlinVersionKind\n\n@kotlin.internal.InlineOnly\n@SinceKotlin(\\"1.2\\")\n@Suppress(\\"IN
VISIBLE_MEMBER\", \\"INVISIBLE_REFERENCE\\")\n@RequireKotlin(\\"1.2.30\\", level =
DeprecationLevel.HIDDEN, versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n\npublic inline fun
<R> suspend(noinline
    block: suspend () -> R): suspend () -> R = block\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n * \n\n@file:kotlin.jvm.JvmName(\\"TuplesKt\\")\n\npackage
kotlin\n\n/**\n * Represents a generic pair of two values.\n * \n\n * There is no meaning attached to values in this
class, it can be used for any purpose.\n * Pair exhibits value semantics, i.e. two pairs are equal if both components
are equal.\n * \n\n * An example of decomposing it into values:\n * @sample samples.misc.Tuples.pairDestructuring\n
*\n * @param A type of the first value.\n * @param B type of the second value.\n * @property first First value.\n *
@property second Second value.\n * @constructor Creates a new instance of Pair.\n */\n\npublic data class Pair<out
A, out B>(\n    public val first: A,\n    public val second: B\n) : Serializable {\n\n    /**\n     *
Returns string representation of the [Pair] including its [first] and [second] values.\n     */\n    public override fun
toString(): String = \"(\$first, \$second)\"\n}\n\n/**\n * Creates a tuple of type [Pair] from this and [that].\n * \n\n * This
can be useful for creating [Map] literals with less noise, for example:\n * @sample
samples.collections.Maps.Instantiation.mapFromPairs\n */\n\npublic infix fun <A, B> A.to(that: B): Pair<A, B> =
Pair(this, that)\n\n/**\n * Converts this pair into a list.\n * @sample samples.misc.Tuples.pairToList\n */\n\npublic
fun <T> Pair<T, T>.toList(): List<T> = listOf(first, second)\n\n/**\n * Represents a triad of values\n * \n\n * There is
no meaning attached to values in this class, it can be used for any purpose.\n * Triple exhibits value semantics, i.e.
two triples are equal if all three components are equal.\n * \n\n * An example of decomposing it into values:\n * @sample
samples.misc.Tuples.tripleDestructuring\n * \n\n * @param A type of the first value.\n * @param B
type of the second value.\n * @param C type of the third value.\n * @property first First value.\n * @property
second Second value.\n * @property third Third value.\n */\n\npublic data class Triple<out A, out B, out C>(\n
    public val first: A,\n    public val second: B,\n    public val third: C\n) : Serializable {\n\n    /**\n     *
Returns string representation of the [Triple] including its [first], [second] and [third] values.\n     */\n    public override fun
toString(): String = \"(\$first, \$second, \$third)\"\n}\n\n/**\n * Converts this triple into a list.\n * @sample
samples.misc.Tuples.tripleToList\n */\n\npublic fun <T> Triple<T, T, T>.toList(): List<T> = listOf(first, second,
third)\n", /*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n * \n\n//
Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\n\nimport kotlin.internal.*\n\n/**\n * A range of values of type `UInt`.\n */\n@SinceKotlin(\\"1.3\\")\n@ExperimentalUnsignedTypes\npublic class
UIntRange(start: UInt, endInclusive: UInt) : UIntProgression(start, endInclusive, 1), ClosedRange<UInt> {\n
    override val start: UInt get() = first\n    override val endInclusive: UInt get() = last\n\n    override fun contains(value:
    UInt): Boolean = first <= value && value <= last\n\n    override fun isEmpty(): Boolean = first > last\n\n    override
fun equals(other: Any?): Boolean =\n        other is UIntRange && (isEmpty() && other.isEmpty()) ||\n            first
== other.first && last == other.last\n\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 *
first.toInt() + last.toInt())\n\n    override fun toString(): String = \"$first..$last\"\n\n    companion object {\n        /**
An empty range of values of type UInt. */\n        public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE,
UInt.MIN_VALUE)\n    }\n}\n\n/**\n * A progression
of values of type `UInt`.\n */\n@SinceKotlin(\\"1.3\\")\n@ExperimentalUnsignedTypes\npublic open class
UIntProgression\n\ninternal constructor(\n    start: UInt,\n    endInclusive: UInt,\n    step: Int\n) : Iterable<UInt> {\n
    init {\n        if (step == 0.toInt()) throw kotlin.IllegalArgumentException(\\"Step must be non-zero.\")\n        if (step
== Int.MIN_VALUE) throw kotlin.IllegalArgumentException(\\"Step must be greater than Int.MIN_VALUE to
avoid overflow on negation.\")\n    }\n\n    /**\n     * The first element in the progression.\n     */\n    public val first:
UInt = start\n\n    /**\n     * The last element in the progression.\n     */\n    public val last: UInt =
getProgressionLastElement(start, endInclusive, step)\n\n    /**\n     * The step of the progression.\n     */\n    public
val step: Int = step\n\n    override fun iterator(): UIntIterator = UIntProgressionIterator(first, last, step)\n\n    /**

```



```

type `ULong`.n *^n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesnpublic open class
ULongProgressionninternal constructor(n start: ULong,n endInclusive: ULong,n step: Long)n :
Iterable<ULong> {n init {n if (step == 0.toLong()) throw kotlin.IllegalArgumentException("Step must be
non-zero.")n if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater
than Long.MIN_VALUE to avoid overflow on negation.")n }}n /**n * The first element in the
progression.n *^n public val first: ULong = startn /**n * The last element in the progression.n *^n
public val last: ULong = getProgressionLastElement(start, endInclusive, step)n /**n * The step of the
progression.n *^n public val step: Long = stepn override fun iterator(): ULongIterator =
ULongProgressionIterator(first, last, step)n /** Checks if the progression is empty. *^n public open fun
isEmpty():
Boolean = if (step > 0) first > last else first < lastn override fun equals(other: Any?): Boolean =n other is
ULongProgression && (isEmpty() && other.isEmpty()) ||n first == other.first && last == other.last &&
step == other.step)n override fun hashCode(): Int =n if (isEmpty()) -1 else (31 * (31 * (first xor (first shr
32)).toInt() + (last xor (last shr 32)).toInt()) + (step xor (step ushr 32)).toInt())n override fun toString(): String =
if (step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}"n companion object {n
/**n * Creates ULongProgression within the specified bounds of a closed range.n * The progression
starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].n
* In order to go backwards the [step] must be negative.n * [step] must be greater than
`Long.MIN_VALUE` and not equal to
zero.n *^n public fun fromClosedRange(rangeStart: ULong, rangeEnd: ULong, step: Long):
ULongProgression = ULongProgression(rangeStart, rangeEnd, step)n }}n /**n * An iterator over a
progression of values of type `ULong`.n * @property step the number by which the value is incremented on each
step.n *^n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesnprivate class ULongProgressionIterator(first:
ULong, last: ULong, step: Long) : ULongIterator() {n private val finalElement = lastn private var hasNext:
Boolean = if (step > 0) first <= last else first >= lastn private val step = step.toULong() // use 2-complement math
for negative stepsn private var next = if (hasNext) first else finalElementn override fun hasNext(): Boolean =
hasNextn override fun nextULong(): ULong {n val value = nextn if (value == finalElement) {n
if (!hasNext) throw kotlin.NoSuchElementException()n hasNext = falsen
} else {n next += stepn }n return value\n }}n}n", /* Copyright 2010-2019 JetBrains
s.r.o. and Kotlin Programming Language contributors.n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.n */npackage kotlin.mathn /**n * Returns the
smaller of two values.n
*^n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun min(a:
UInt, b: UInt): UInt {n return minOf(a, b)n}n /**n * Returns the smaller of two values.n
*^n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun min(a:
ULong, b: ULong): ULong {n return minOf(a, b)n}n /**n * Returns the greater of two values.n
*^n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun max(a:
UInt, b: UInt): UInt {n return maxOf(a, b)n}n /**n * Returns the greater of two values.n
*^n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic
inline fun max(a: ULong, b: ULong): ULong {n return maxOf(a, b)n}n", /* Copyright 2010-2019 JetBrains
s.r.o. and Kotlin Programming Language contributors.n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.n
*^n@file:kotlin.jvm.JvmName("UNumbersKt")npackage kotlinn /**n * Counts the number of set bits in the
binary representation of this [UInt] number.n
*^n@SinceKotlin("1.3")n@ExperimentalStdlibApi n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnl
ynpublic inline fun UInt.countOneBits(): Int = toInt().countOneBits()n /**n * Counts the number of consecutive
most significant bits that are zero in the binary representation of this [UInt] number.n
*^n@SinceKotlin("1.3")n@ExperimentalStdlibApi n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnl

```

```

y\npublic inline fun UInt.countLeadingZeroBits(): Int = toInt().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UInt] number.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UInt.countTrailingZeroBits(): Int = toInt().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [UInt] number,\n * or zero, if this number is zero.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UInt.takeHighestOneBit(): UInt = toInt().takeHighestOneBit().toUInt()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [UInt] number,\n * or zero, if this number is zero.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UInt.takeLowestOneBit(): UInt = toInt().takeLowestOneBit().toUInt()\n\n/**\n * Rotates the binary representation of this [UInt] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UInt.rotateLeft(bitCount: Int): UInt = toInt().rotateLeft(bitCount).toUInt()\n\n/**\n * Rotates the binary representation of this [UInt] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UInt.rotateRight(bitCount: Int): UInt = toInt().rotateRight(bitCount).toUInt()\n\n/**\n * Counts the number of set bits in the binary representation of this [ULong] number.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULong.countOneBits(): Int = toLong().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [ULong] number.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULong.countLeadingZeroBits(): Int = toLong().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [ULong] number.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULong.countTrailingZeroBits(): Int = toLong().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [ULong] number,\n * or zero, if this number is zero.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULong.takeHighestOneBit(): ULong = toLong().takeHighestOneBit().toULong()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [ULong] number,\n * or zero, if this number is zero.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULong.takeLowestOneBit(): ULong = toLong().takeLowestOneBit().toULong()\n\n/**\n * Rotates the binary representation of this [ULong] number left by the specified [bitCount] number of bits.\n * The

```

```

most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n
*\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n *
`number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [ULong.SIZE_BITS] (64)
returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n
*\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnl
y\n public inline fun ULong.rotateLeft(bitCount:
Int): ULong = toLong().rotateLeft(bitCount).toULong()\n\n **\n * Rotates the binary representation of this
[ULong] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the
right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a
negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) ==
number.rotateLeft(n)`\n *\n * Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more
generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n
*\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnl
y\n public inline fun ULong.rotateRight(bitCount: Int): ULong = toLong().rotateRight(bitCount).toULong()\n\n **\n
* Counts the number of set bits in the binary representation of this [UByte] number.\n
*\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnl
y\n public
inline fun UByte.countOneBits(): Int = toUInt().countOneBits()\n\n **\n * Counts the number of consecutive most
significant bits that are zero in the binary representation of this [UByte] number.\n
*\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnl
y\n public inline fun UByte.countLeadingZeroBits(): Int = toByte().countLeadingZeroBits()\n\n **\n * Counts the
number of consecutive least significant bits that are zero in the binary representation of this [UByte] number.\n
*\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnl
y\n public inline fun UByte.countTrailingZeroBits(): Int = toByte().countTrailingZeroBits()\n\n **\n * Returns a
number having a single bit set in the position of the most significant set bit of this [UByte] number,\n * or zero, if
this number is zero.\n
*\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnl
y\n public
inline fun UByte.takeHighestOneBit(): UByte = toInt().takeHighestOneBit().toUByte()\n\n **\n * Returns a
number having a single bit set in the position of the least significant set bit of this [UByte] number,\n * or zero, if
this number is zero.\n
*\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnl
y\n public inline fun UByte.takeLowestOneBit(): UByte = toInt().takeLowestOneBit().toUByte()\n\n\n **\n *
Rotates the binary representation of this [UByte] number left by the specified [bitCount] number of bits.\n * The
most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n
*\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n *
`number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns
the same number,
or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 8)`\n
*\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnl
y\n public inline fun UByte.rotateLeft(bitCount: Int): UByte = toByte().rotateLeft(bitCount).toUByte()\n\n **\n
* Rotates the binary representation of this [UByte] number right by the specified [bitCount] number of bits.\n * The
least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n
*\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *
`number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns
the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 8)`\n
*\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnl
y\n public inline fun UByte.rotateRight(bitCount:

```

```

Int): UByte = toByte().rotateRight(bitCount).toUByte()\n\n**\n * Counts the number of set bits in the binary
representation of this [UShort] number.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UShort.countOneBits(): Int = toUInt().countOneBits()\n\n**\n * Counts the number of
consecutive most significant bits that are zero in the binary representation of this [UShort] number.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UShort.countLeadingZeroBits(): Int = toShort().countLeadingZeroBits()\n\n**\n * Counts the
number of consecutive least significant bits that are zero in the binary representation of this [UShort] number.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UShort.countTrailingZeroBits(): Int = toShort().countTrailingZeroBits()\n\n**\n
* Returns a number having a single bit set in the position of the most significant set bit of this [UShort] number,\n
* or zero, if this number is zero.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UShort.takeHighestOneBit(): UShort = toInt().takeHighestOneBit().toUShort()\n\n**\n
Returns a number having a single bit set in the position of the least significant set bit of this [UShort] number,\n
* or zero, if this number is zero.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UShort.takeLowestOneBit(): UShort = toInt().takeLowestOneBit().toUShort()\n\n**\n
Rotates the binary representation of this [UShort] number left by the specified [bitCount] number of bits.\n
* The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n
*\n * Rotating
the number left by a negative bit count is the same as rotating it right by the negated bit count:\n
*
`number.rotateLeft(-n) == number.rotateRight(n)`\n
*\n * Rotating by a multiple of [UShort.SIZE_BITS] (16)
returns the same number, or more generally\n
* `number.rotateLeft(n) == number.rotateLeft(n % 16)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UShort.rotateLeft(bitCount: Int): UShort = toShort().rotateLeft(bitCount).toUShort()\n\n**\n
Rotates the binary representation of this [UShort] number right by the specified [bitCount] number of bits.\n
* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n
*\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n
*
`number.rotateRight(-n) == number.rotateLeft(n)`\n
*\n * Rotating by a multiple of [UShort.SIZE_BITS] (16)
returns the same number, or more generally\n
* `number.rotateRight(n) == number.rotateRight(n % 16)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UShort.rotateRight(bitCount: Int): UShort = toShort().rotateRight(bitCount).toUShort()\n", "/*\n
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* Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@file:UseExperimental(ExperimentalUnsignedTypes::class)\npackage kotlin.internal\n\n// (a - b) mod
c\nprivate fun differenceModulo(a: UInt, b: UInt, c: UInt): UInt {\n    val ac = a % c\n    val bc = b % c\n    return if
(ac >= bc) ac - bc else ac - bc + c\n}\n\nprivate fun differenceModulo(a: ULong, b: ULong, c: ULong): ULong {\n
val ac = a % c\n    val bc = b % c\n    return if (ac >= bc) ac - bc else ac - bc + c\n}\n\n**\n * Calculates the final
element
of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n
* from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n
* [step].\n
*\n * No validation on
passed parameters is performed. The given parameters should satisfy the condition:\n
*\n * - either `step > 0` and
`start <= end`,\n
* - or `step < 0` and `start >= end`.\n
*\n * @param start first element of the progression\n
* @param end ending bound for the progression\n
* @param step increment, or difference of successive elements in
the progression\n
* @return the final element of the progression\n
* @suppress\n
*\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun getProgressionLastElement(start: UInt, end: UInt, step:
Int): UInt = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toUInt())\n
}

```

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step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toUInt())\n else -> throw
kotlin.IllegalArgumentException("Step is zero.")\n}\n\n/**\n * Calculates the final element of a bounded
arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case
of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n *\n * No validation on passed
parameters is performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and `start <=
end`,\n *\n * - or `step < 0` and `start >= end`.\n *\n * @param start first element of the progression\n * @param end
ending bound for the progression\n * @param step increment, or difference of successive elements in the
progression\n * @return the final element of the progression\n * @suppress\n
*\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun getProgressionLastElement(start: ULong, end: ULong,
step: Long): ULong = when {\n step > 0 -> if (start >= end) end else end - differenceModulo(end, start,
step.toULong())\n step
< 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toULong())\n else -> throw
kotlin.IllegalArgumentException("Step is zero.")\n}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n\n@file:kotlin.jvm.JvmName("UStringsKt") // string representation
of unsigned numbers\n\npackage kotlin.text\n\n/**\n * Returns a string representation of this [Byte] value in the
specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string
conversion.\n *\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n//@kotlin.internal.InlineOnly\npublic
/*inline*/ fun UByte.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string
representation of this [Short] value in the specified [radix].\n *\n * @throws IllegalArgumentException when
[radix] is not a valid radix for number to string conversion.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n//@kotlin.internal.InlineOnly\npublic /*inline*/ fun
UShort.toString(radix: Int): String = this.toInt().toString(radix)\n\n\n/**\n * Returns a string representation of this
[Int] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for
number to string conversion.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n//@kotlin.internal.InlineOnly\npublic /*inline*/ fun
UInt.toString(radix: Int): String = this.toLong().toString(radix)\n\n\n/**\n * Returns a string representation of this
[Long] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix
for number to string conversion.\n *\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULong.toString(radix: Int): String = ulongToString(this.toLong(), checkRadix(radix))\n\n\n/**\n * Parses the string
as
a signed [UByte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n *\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
String.toUByte(): UByte = toUByteOrNull() ?: numberFormatError(this)\n\n\n/**\n * Parses the string as a signed
[UByte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to
number conversion.\n *\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toUByte(radix:
Int): UByte = toUByteOrNull(radix) ?: numberFormatError(this)\n\n\n/**\n * Parses the string as a [UShort]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n *\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toUShort(): UShort =
toUShortOrNull() ?: numberFormatError(this)\n\n\n
* Parses the string as a [UShort] number and returns the result.\n * @throws NumberFormatException if the string
is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix
for string to number conversion.\n *\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
String.toUShort(radix: Int): UShort = toUShortOrNull(radix) ?: numberFormatError(this)\n\n\n/**\n * Parses the
string as an [UInt] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n *\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
String.toUInt(): UInt = toUIntOrNull() ?: numberFormatError(this)\n\n\n/**\n * Parses the string as an [UInt] number

```

```

and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toUInt(radix: Int): UInt =
toUIntOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [ULong] number and returns the
result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toULong(): ULong =
toULongOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a [ULong] number and returns the
result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toULong(radix: Int): ULong =
toULongOrNull(radix) ?: numberFormatError(this)\n\n\n\n\n\n/**\n * Parses the string as an [UByte] number and
returns the result\n * or `null` if the string is not a valid representation
of a number.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toUByteOrNull():
UByte? = toUByteOrNull(radix = 10)\n\n\n\n\n\n/**\n * Parses the string as an [UByte] number and returns the result\n * or
`null` if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when
[radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toUByteOrNull(radix: Int): UByte?
{\n    val int = this.toUIntOrNull(radix) ?: return null\n    if (int > UByte.MAX_VALUE) return null\n    return
int.toUByte()\n}\n\n\n\n\n\n/**\n * Parses the string as an [UShort] number and returns the result\n * or `null` if the string is
not a valid representation of a number.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
String.toUShortOrNull(): UShort? = toUShortOrNull(radix = 10)\n\n\n\n\n\n/**\n * Parses the string as an [UShort] number
and returns the result\n * or `null`
if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is
not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toUShortOrNull(radix: Int): UShort?
{\n    val int = this.toUIntOrNull(radix) ?: return null\n    if (int > UShort.MAX_VALUE) return null\n    return
int.toUShort()\n}\n\n\n\n\n\n/**\n * Parses the string as an [UInt] number and returns the result\n * or `null` if the string is
not a valid representation of a number.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
String.toUIntOrNull(): UInt? = toUIntOrNull(radix = 10)\n\n\n\n\n\n/**\n * Parses the string as an [UInt] number and
returns the result\n * or `null` if the string is not a valid representation of a number.\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toUIntOrNull(radix:
Int): UInt? {\n    checkRadix(radix)\n    val length = this.length\n    if (length == 0) return null\n\n    val limit:
UInt = UInt.MAX_VALUE\n    val start: Int\n    val firstChar = this[0]\n    if (firstChar < '0') {\n        if (length ==
1 || firstChar != '+') return null\n        start = 1\n    } else {\n        start = 0\n    }\n\n    val limitForMaxRadix =
119304647u // limit / 36\n    var limitBeforeMul = limitForMaxRadix\n    val uradix = radix.toUInt()\n    var
result = 0u\n    for (i in start until length) {\n        val digit = digitOf(this[i], radix)\n\n        if (digit < 0) return null\n
        if (result > limitBeforeMul) {\n            if (limitBeforeMul == limitForMaxRadix) {\n                limitBeforeMul =
limit / uradix\n\n                if (result > limitBeforeMul) {\n                    return null\n                }\n            } else {\n
                return null\n            }\n        }\n        result *= uradix\n\n        val beforeAdding = result\n        result += digit.toUInt()\n        if (result < beforeAdding) return null // overflow has
happened\n    }\n    return result\n}\n\n\n\n\n\n/**\n * Parses the string as an [ULong] number and returns the result\n * or
`null` if the string is not a valid representation of a number.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toULongOrNull(): ULong? =
toULongOrNull(radix = 10)\n\n\n\n\n\n/**\n * Parses the string as an [ULong] number and returns the result\n * or `null` if
the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a
valid radix for string to number conversion.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun String.toULongOrNull(radix: Int): ULong? {\n    checkRadix(radix)\n    val length = this.length\n    if (length

```



radians.  
`atan2(0.0, 0.0)` is `0.0`  
`atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`  
`atan2(-0.0, x)` is `-0.0` for `x > 0` and `-PI` for `x < 0`  
`atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for `-Inf < y < 0`  
`atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`  
`atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`  
`atan2(+Inf, x)` is `PI/2` for finite `x`  
`atan2(-Inf, x)` is `-PI/2` for finite `x`  
`atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`  
`@SinceKotlin("1.2")`  
`public expect fun atan2(y: Double, x: Double): Double`  
 Computes the hyperbolic sine of the value `[x]`.  
 Special cases:  
`sinh(NaN)` is `NaN`  
`sinh(+Inf)` is `+Inf`  
`sinh(-Inf)` is `-Inf`  
`@SinceKotlin("1.2")`  
`public expect fun sinh(x: Double): Double`  
 Computes the hyperbolic cosine of the value `[x]`.  
 Special cases:  
`cosh(NaN)` is `NaN`  
`cosh(+Inf|-Inf)` is `+Inf`  
`@SinceKotlin("1.2")`  
`public expect fun cosh(x: Double): Double`  
 Computes the hyperbolic tangent of the value `[x]`.  
 Special cases:  
`tanh(NaN)` is `NaN`  
`tanh(+Inf)` is `1.0`  
`tanh(-Inf)` is `-1.0`  
`@SinceKotlin("1.2")`  
`public expect fun tanh(x: Double): Double`  
 Computes the inverse hyperbolic sine of the value `[x]`.  
 The returned value is `y` such that `sinh(y) == x`.  
 Special cases:  
`asinh(NaN)` is `NaN`  
`asinh(+Inf)` is `+Inf`  
`asinh(-Inf)` is `-Inf`  
`@SinceKotlin("1.2")`  
`public expect fun asinh(x: Double): Double`  
 Computes the inverse hyperbolic cosine of the value `[x]`.  
 The returned value is positive `y` such that `cosh(y) == x`.  
 Special cases:  
`acosh(NaN)` is `NaN`  
`acosh(x)` is `NaN` when `x < 1`  
`acosh(+Inf)` is `+Inf`  
`@SinceKotlin("1.2")`  
`public expect fun acosh(x: Double): Double`  
 Computes the inverse hyperbolic tangent of the value `[x]`.  
 The returned value is `y` such that `tanh(y) == x`.  
 Special cases:  
`atanh(NaN)` is `NaN`  
`atanh(x)` is `NaN` when `x > 1` or `x < -1`  
`atanh(1.0)` is `+Inf`  
`atanh(-1.0)` is `-Inf`  
`@SinceKotlin("1.2")`  
`public expect fun atanh(x: Double): Double`  
 Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.  
 Special cases:  
 - returns `+Inf` if any of arguments is infinite  
 - returns `NaN` if any of arguments is `NaN` and the other is not infinite  
`@SinceKotlin("1.2")`  
`public expect fun hypot(x: Double, y: Double): Double`  
 Computes the positive square root of the value `[x]`.  
 Special cases:  
`sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`  
`@SinceKotlin("1.2")`  
`public expect fun sqrt(x: Double): Double`  
 Computes Euler's number `e` raised to the power of the value `[x]`.  
 Special cases:  
`exp(NaN)` is `NaN`  
`exp(+Inf)` is `+Inf`  
`exp(-Inf)` is `0.0`  
`@SinceKotlin("1.2")`  
`public expect fun exp(x: Double): Double`  
 Computes `exp(x) - 1`.  
 This function can be implemented to produce more precise result for `[x]` near zero.  
 Special cases:  
`expm1(NaN)` is `NaN`  
`expm1(+Inf)` is `+Inf`  
`expm1(-Inf)` is `-1.0`  
`@see [exp]` function.  
`@SinceKotlin("1.2")`  
`public expect fun expm1(x: Double): Double`  
 Computes the logarithm of the value `[x]` to the given `[base]`.  
 Special cases:  
`log(x, b)` is `NaN` if either `x` or `b` are `NaN`  
`log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`  
`log(+Inf, +Inf)` is `NaN`  
`log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`  
`log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`  
 See also logarithm functions for common fixed bases: `[ln]`, `[log10]` and `[log2]`.  
`@SinceKotlin("1.2")`  
`public expect fun log(x: Double, base: Double): Double`  
 Computes the natural logarithm (base `E`) of the value `[x]`.  
 Special cases:  
`ln(NaN)` is `NaN`  
`ln(x)` is `NaN` when `x < 0.0`  
`ln(+Inf)` is `+Inf`  
`ln(0.0)` is `-Inf`  
`@SinceKotlin("1.2")`  
`public expect fun ln(x: Double): Double`  
 Computes the common logarithm (base 10) of the value `[x]`.  
`@see [ln]` function for special cases.  
`@SinceKotlin("1.2")`  
`public expect fun log10(x: Double): Double`  
 Computes the binary logarithm (base 2) of the value `[x]`.  
`@see [ln]` function for special cases.  
`@SinceKotlin("1.2")`  
`public expect fun log2(x: Double): Double`  
 Computes `ln(x + 1)`.  
 This function can be implemented to produce more precise result for `[x]` near zero.  
 Special cases:  
`ln1p(NaN)` is `NaN`  
`ln1p(x)` is `NaN` where `x < -1.0`  
`ln1p(-1.0)` is `-Inf`  
`ln1p(+Inf)` is `+Inf`  
`@see [ln]` function  
`@see [expm1]` function  
`@SinceKotlin("1.2")`  
`public expect fun ln1p(x: Double): Double`  
 Rounds the given value

[x] to an integer towards positive infinity.  
`@return` the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.  
 Special cases:  
`ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.  
`@SinceKotlin("1.2")` public expect fun `ceil(x: Double): Double`  
 Rounds the given value [x] to an integer towards negative infinity.  
`@return` the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.  
 Special cases:  
`floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.  
`@SinceKotlin("1.2")` public expect fun `floor(x: Double): Double`  
 Rounds the given value [x] to an integer towards zero.  
`@return` the value [x] having its fractional part truncated.  
 Special cases:  
`truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.  
`@SinceKotlin("1.2")` public expect fun `truncate(x: Double): Double`  
 Rounds the given value [x] towards the closest integer with ties rounded towards even integer.  
 Special cases:  
`round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.  
`@SinceKotlin("1.2")` public expect fun `round(x: Double): Double`  
 Returns the absolute value of the given value [x].  
 Special cases:  
`abs(NaN)` is `NaN`  
`@see` `absoluteValue` extension property for `[Double]`  
`@SinceKotlin("1.2")` public expect fun `abs(x: Double): Double`  
 Returns the sign of the given value [x]:  
`-1.0` if the value is negative,  
`0` if the value is zero,  
`1.0` if the value is positive  
 Special case:  
`sign(NaN)` is `NaN`  
`@SinceKotlin("1.2")` public expect fun `sign(x: Double): Double`  
 Returns the smaller of two values.  
 If either value is `NaN`, then the result is `NaN`.  
`@SinceKotlin("1.2")` public expect fun `min(a: Double, b: Double): Double`  
 Returns the greater of two values.  
 If either value is `NaN`, then the result is `NaN`.  
`@SinceKotlin("1.2")` public expect fun `max(a: Double, b: Double): Double`  
 Raises this value to the power [x].  
 Special cases:  
`b.pow(0.0)` is `1.0`  
`b.pow(1.0) == b`  
`b.pow(NaN)` is `NaN`  
`NaN.pow(x)` is `NaN` for `x != 0.0`  
`b.pow(Inf)` is `NaN` for `abs(b) == 1.0`  
`b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer  
`@SinceKotlin("1.2")` public expect fun `Double.pow(x: Double): Double`  
 Raises this value to the integer power [n].  
 See the other overload of `[pow]` for details.  
`@SinceKotlin("1.2")` public expect fun `Double.pow(n: Int): Double`  
 Returns the absolute value of this value.  
 Special cases:  
`NaN.absoluteValue` is `NaN`  
`@see` `abs` function  
`@SinceKotlin("1.2")` public expect val `Double.absoluteValue: Double`  
 Returns the sign of this value:  
`-1.0` if the value is negative,  
`0` if the value is zero,  
`1.0` if the value is positive  
 Special case:  
`NaN.sign` is `NaN`  
`@SinceKotlin("1.2")` public expect val `Double.sign: Double`  
 Returns this value with the sign bit same as of the `[sign]` value.  
 If `[sign]` is `NaN` the sign of the result is undefined.  
`@SinceKotlin("1.2")` public expect fun `Double.withSign(sign: Double): Double`  
 Returns this value with the sign bit same as of the `[sign]` value.  
`@SinceKotlin("1.2")` public expect fun `Double.withSign(sign: Int): Double`  
 Returns the ulp (unit in the last place) of this value.  
 An ulp is a positive distance between this value and the next nearest `[Double]` value larger in magnitude.  
 Special Cases:  
`NaN.ulp` is `NaN`  
`x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`  
`0.0.ulp` is `Double.MIN_VALUE`  
`@SinceKotlin("1.2")` public expect val `Double.ulp: Double`  
 Returns the `[Double]` value nearest to this value in direction of positive infinity.  
`@SinceKotlin("1.2")` public expect fun `Double.nextUp(): Double`  
 Returns the `[Double]` value nearest to this value in direction of negative infinity.  
`@SinceKotlin("1.2")` public expect fun `Double.nextDown(): Double`  
 Returns the `[Double]` value nearest to this value in direction from this value towards the value [to].  
 Special cases:  
`x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`  
`x.nextTowards(x) == x`  
`@SinceKotlin("1.2")` public expect fun `Double.nextTowards(to: Double): Double`  
 Rounds this `[Double]` value to the nearest integer and converts the result to `[Int]`.  
 Ties are rounded towards positive infinity.  
 Special cases:  
`x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`  
`x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`  
`@throws` `IllegalArgumentException` when this value is

`NaN` \n \* \n @SinceKotlin("1.2") \n public expect fun Double.roundToInt(): Int \n \n \* Rounds this [Double] value to the nearest integer and converts the result to [Long]. \n \* Ties are rounded towards positive infinity. \n \* Special cases: \n \* - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE` \n \* - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE` \n \* @throws `IllegalArgumentException` when this value is `NaN` \n \n @SinceKotlin("1.2") \n public expect fun Double.roundToLong(): Long \n \n // endregion \n \n // region ===== Float Math ===== \n \n \* Computes the sine of the angle [x] given in radians. \n \* Special cases: \n \* - `sin(NaN|+Inf|-Inf)` is `NaN` \n \n @SinceKotlin("1.2") \n public expect fun sin(x: Float): Float \n \n \* Computes the cosine of the angle [x] given in radians. \n \* Special cases: \n \* - `cos(NaN|+Inf|-Inf)` is `NaN` \n \n @SinceKotlin("1.2") \n public expect fun cos(x: Float): Float \n \n \* Computes the tangent of the angle [x] given in radians. \n \* Special cases: \n \* - `tan(NaN|+Inf|-Inf)` is `NaN` \n \n @SinceKotlin("1.2") \n public expect fun tan(x: Float): Float \n \n \* Computes the arc sine of the value [x]; \n \* the returned value is an angle in the range from `-PI/2` to `PI/2` radians. \n \* Special cases: \n \* - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN` \n \n @SinceKotlin("1.2") \n public expect fun asin(x: Float): Float \n \n \* Computes the arc cosine of the value [x]; \n \* the returned value is an angle in the range from `0.0` to `PI` radians. \n \* Special cases: \n \* - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN` \n \n @SinceKotlin("1.2") \n public expect fun acos(x: Float): Float \n \n \* Computes the arc tangent of the value [x]; \n \* the returned value is an angle in the range from `-PI/2` to `PI/2` radians. \n \* Special cases: \n \* - `atan(NaN)` is `NaN` \n \n @SinceKotlin("1.2") \n public expect fun atan(x: Float): Float \n \n \* Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond \n \* to the rectangular coordinates `(x, y)` by computing the arc tangent of the value `[y] / [x]`; \n \* the returned value is an angle in the range from `-PI` to `PI` radians. \n \* Special cases: \n \* - `atan2(0.0, 0.0)` is `0.0` \n \* - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0` \n \* - `atan2(-0.0, x)` is `-0.0` for `x > 0` and `-PI` for `x < 0` \n \* - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for `-Inf < y < 0` \n \* - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0` \n \* - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0` \n \* - `atan2(+Inf, x)` is `PI/2` for finite `x` \n \* - `atan2(-Inf, x)` is `-PI/2` for finite `x` \n \* - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN` \n \n @SinceKotlin("1.2") \n public expect fun atan2(y: Float, x: Float): Float \n \n \* Computes the hyperbolic sine of the value [x]. \n \* Special cases: \n \* - `sinh(NaN)` is `NaN` \n \* - `sinh(+Inf)` is `+Inf` \n \* - `sinh(-Inf)` is `-Inf` \n \n @SinceKotlin("1.2") \n public expect fun sinh(x: Float): Float \n \n \* Computes the hyperbolic cosine of the value [x]. \n \* Special cases: \n \* - `cosh(NaN)` is `NaN` \n \* - `cosh(+Inf|-Inf)` is `+Inf` \n \n @SinceKotlin("1.2") \n public expect fun cosh(x: Float): Float \n \n \* Computes the hyperbolic tangent of the value [x]. \n \* Special cases: \n \* - `tanh(NaN)` is `NaN` \n \* - `tanh(+Inf)` is `1.0` \n \* - `tanh(-Inf)` is `-1.0` \n \n @SinceKotlin("1.2") \n public expect fun tanh(x: Float): Float \n \n \* Computes the inverse hyperbolic sine of the value [x]. \n \* The returned value is `y` such that `sinh(y) == x`. \n \* Special cases: \n \* - `asinh(NaN)` is `NaN` \n \* - `asinh(+Inf)` is `+Inf` \n \* - `asinh(-Inf)` is `-Inf` \n \n @SinceKotlin("1.2") \n public expect fun asinh(x: Float): Float \n \n \* Computes the inverse hyperbolic cosine of the value [x]. \n \* The returned value is positive `y` such that `cosh(y) == x`. \n \* Special cases: \n \* - `acosh(NaN)` is `NaN` \n \* - `acosh(x)` is `NaN` when `x < 1` \n \* - `acosh(+Inf)` is `+Inf` \n \n @SinceKotlin("1.2") \n public expect fun acosh(x: Float): Float \n \n \* Computes the inverse hyperbolic tangent of the value [x]. \n \* The returned value is `y` such that `tanh(y) == x`. \n \* Special cases: \n \* - `tanh(NaN)` is `NaN` \n \* - `tanh(x)` is `NaN` when `x > 1` or `x < -1` \n \* - `tanh(1.0)` is `+Inf` \n \* - `tanh(-1.0)` is `-Inf` \n \n @SinceKotlin("1.2") \n public expect fun atanh(x: Float): Float \n \n \* Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow. \n \* Special cases: \n \* - returns `+Inf` if any of arguments is infinite \n \* - returns `NaN` if any of arguments is `NaN` and the other is not infinite \n \n @SinceKotlin("1.2") \n public expect fun hypot(x: Float, y: Float): Float \n \n \* Computes the positive square root of the value [x]. \n \* Special cases: \n \* - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`

`*\n@SinceKotlin("1.2")\npublic expect fun sqrt(x: Float): Float\n\n/**\n * Computes Euler's number `e` raised to the power of the value [x].\n * Special cases:\n * - `exp(NaN)` is `NaN`\n * - `exp(+Inf)` is `+Inf`\n * - `exp(-Inf)` is `0.0`\n */\n@SinceKotlin("1.2")\npublic expect fun exp(x: Float): Float\n\n/**\n * Computes `exp(x) - 1`.\n * This function can be implemented to produce more precise result for [x] near zero.\n * Special cases:\n * - `expm1(NaN)` is `NaN`\n * - `expm1(+Inf)` is `+Inf`\n * - `expm1(-Inf)` is `-1.0`\n * @see [exp] function.\n */\n@SinceKotlin("1.2")\npublic expect fun expm1(x: Float): Float\n\n/**\n * Computes the logarithm of the value [x] to the given [base].\n * Special cases:\n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n * - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\n * - `log(+Inf, +Inf)` is `NaN`\n * - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\n * - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n */\n@SinceKotlin("1.2")\npublic expect fun log(x: Float, base: Float): Float\n\n/**\n * Computes the natural logarithm (base `E`) of the value [x].\n * Special cases:\n * - `ln(NaN)` is `NaN`\n * - `ln(x)` is `NaN` when `x < 0.0`\n * - `ln(+Inf)` is `+Inf`\n * - `ln(0.0)` is `-Inf`\n */\n@SinceKotlin("1.2")\npublic expect fun ln(x: Float): Float\n\n/**\n * Computes the common logarithm (base 10) of the value [x].\n * @see [ln] function for special cases.\n */\n@SinceKotlin("1.2")\npublic expect fun log10(x: Float): Float\n\n/**\n * Computes the binary logarithm (base 2) of the value [x].\n * @see [ln] function for special cases.\n */\n@SinceKotlin("1.2")\npublic expect fun log2(x: Float): Float\n\n/**\n * Computes `ln(a + 1)`.\n * This function can be implemented to produce more precise result for [x] near zero.\n * Special cases:\n * - `ln1p(NaN)` is `NaN`\n * - `ln1p(x)` is `NaN` where `x < -1.0`\n * - `ln1p(-1.0)` is `-Inf`\n * - `ln1p(+Inf)` is `+Inf`\n * @see [ln] function\n * @see [expm1] function\n */\n@SinceKotlin("1.2")\npublic expect fun ln1p(x: Float): Float\n\n/**\n * Rounds the given value [x] to an integer towards positive infinity.\n * @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.\n * Special cases:\n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin("1.2")\npublic expect fun ceil(x: Float): Float\n\n/**\n * Rounds the given value [x] to an integer towards negative infinity.\n * @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.\n * Special cases:\n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin("1.2")\npublic expect fun floor(x: Float): Float\n\n/**\n * Rounds the given value [x] to an integer towards zero.\n * @return the value [x] having its fractional part truncated.\n * Special cases:\n * - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin("1.2")\npublic expect fun truncate(x: Float): Float\n\n/**\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n * Special cases:\n * - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin("1.2")\npublic expect fun round(x: Float): Float\n\n/**\n * Returns the absolute value of the given value [x].\n * Special cases:\n * - `abs(NaN)` is `NaN`\n * @see absoluteValue extension property for [Float]\n */\n@SinceKotlin("1.2")\npublic expect fun abs(x: Float): Float\n\n/**\n * Returns the sign of the given value [x]:\n * - `-1.0` if the value is negative,\n * - zero if the value is zero,\n * - `1.0` if the value is positive\n * Special case:\n * - `sign(NaN)` is `NaN`\n */\n@SinceKotlin("1.2")\npublic expect fun sign(x: Float): Float\n\n/**\n * Returns the smaller of two values.\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin("1.2")\npublic expect fun min(a: Float, b: Float): Float\n\n/**\n * Returns the greater of two values.\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin("1.2")\npublic expect fun max(a: Float, b: Float): Float\n\n/**\n * Raises this value to the power [x].\n * Special cases:\n * - `b.pow(0.0)` is `1.0`\n * - `b.pow(1.0) == b`\n * - `b.pow(NaN)` is `NaN`\n * - `NaN.pow(x)` is `NaN` for `x != 0.0`\n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n * - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n */\n@SinceKotlin("1.2")\npublic expect fun Float.pow(x: Float): Float\n\n/**\n * Raises this value to the integer power [n].\n * See the other overload of [pow] for details.\n */\n@SinceKotlin("1.2")\npublic expect fun Float.pow(n: Int): Float\n\n/**\n * Returns the absolute value of this value.\n * Special cases:\n * - `NaN.absoluteValue` is `NaN`\n * @see abs function\n */`

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*^@SinceKotlin("1.2")\npublic expect val Float.absoluteValue: Float\n\n/**\n * Returns the sign of this value:\n * -`-1.0` if the value is negative,\n * - zero if the value is zero,\n * -`1.0` if the value is positive\n *\n * Special case:\n * -`NaN.sign` is `NaN`\n *\n@SinceKotlin("1.2")\npublic expect val Float.sign:\n\nFloat\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n *\n * If [sign] is `NaN` the sign of the result is undefined.\n *\n@SinceKotlin("1.2")\npublic expect fun Float.withSign(sign: Float): Float\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n *\n@SinceKotlin("1.2")\npublic expect fun Float.withSign(sign: Int): Float\n\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to [Int].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n * -`x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * -`x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n *\n@SinceKotlin("1.2")\npublic expect fun Float.roundToInt(): Int\n\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to [Long].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n * -`x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n * -`x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n *\n@SinceKotlin("1.2")\npublic expect fun Float.roundToLong(): Long\n\n\n// endregion\n\n// region\n\n==== Integer Math =====\n\n\n/**\n * Returns the absolute value of the given value [n].\n *\n * Special cases:\n * -`abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow\n *\n * @see absoluteValue extension property for [Int]\n *\n@SinceKotlin("1.2")\npublic expect fun abs(n: Int): Int\n\n\n/**\n * Returns the smaller of two values.\n *\n@SinceKotlin("1.2")\npublic expect fun min(a: Int, b: Int): Int\n\n\n/**\n * Returns the greater of two values.\n *\n@SinceKotlin("1.2")\npublic expect fun max(a: Int, b: Int): Int\n\n\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n * -`Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\n *\n * @see abs function\n *\n@SinceKotlin("1.2")\npublic expect val Int.absoluteValue: Int\n\n\n/**\n * Returns the sign of this value:\n * -`-1` if the value is negative,\n * -`0` if the value is zero,\n * -`1` if the value is positive\n *\n@SinceKotlin("1.2")\npublic expect val Int.sign:\n\nInt\n\n\n/**\n * Returns the absolute value of the given value [n].\n *\n * Special cases:\n * -`abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\n *\n * @see absoluteValue extension property for [Long]\n *\n@SinceKotlin("1.2")\npublic expect fun abs(n: Long): Long\n\n\n/**\n * Returns the smaller of two values.\n *\n@SinceKotlin("1.2")\npublic expect fun min(a: Long, b: Long): Long\n\n\n/**\n * Returns the greater of two values.\n *\n@SinceKotlin("1.2")\npublic expect fun max(a: Long, b: Long): Long\n\n\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n * -`Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n *\n * @see abs function\n *\n@SinceKotlin("1.2")\npublic expect val Long.absoluteValue: Long\n\n\n/**\n * Returns the sign of this value:\n * -`-1` if the value is negative,\n * -`0` if the value is zero,\n * -`1` if the value is positive\n *\n@SinceKotlin("1.2")\npublic expect val Long.sign: Int\n\n\n\nendregion\n",null,null,null,null,null,null,null,null], "names": [], "mappings": "AAWC,CAXA,yB;EACG,IAAI,OA AO,MAAO,KAAI,UAAW,IAAG,MAAM,IAAIC,C;IACI,MAAM,CAAC,QAAD,EA AW,CAAC,SAAD,CAAX,E AAwB,OAAxB,C;SAEL,IAAI,OAAO,OAAQ,KAAI,QAAvB,C;IACD,OAAO,CAAC,MAAM,QAAP,C;;IAGP,IA AI,OAAQ,GAAE,E;IACd,OAAO,CAAC,IAAI,OAAL,C;;CAEd,CAAC,IAAD,EAAO,kB;EACJ,IAAI,IAAI,M;EC PZ,MAAM,eAAgB,GAAE,a;IACpB,OAAoD,CAA5C,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAE,YAAW, SAAW,KAA G,CAAC,OAAQ,KAAI,c;G;EAGxE,MAAM,YAAa,GAAE,a;IACjB,OAAO,CAAE,YAAW,SAAU,I AAG,CAAC,OAAQ,KAAI,c;G;EAGID,MAAM,aAAc,GAAE,a;IACIB,OAAO,CAAE,YAAW,U;G;EAGxB,MAA M,YAAa,GAAE,a;IACjB,OAAO,CAAE,YAAW,WAAY,IAAG,CAAC,OAAQ,KAAI,W;G;EAGpD,MAAM,WAA Y,GAAE,a;IAChB,OAAO,CAAE,YAAW,U;G;EAGxB,MAAM,aAAc,GAAE,a;IACIB,OAAO,CAAE,YAAW,Y;G ;EAGxB,MAAM,cAAe,GAAE,a;IACnB,OAAO,CAAE,YAAW,Y;G;EAGxB,MAAM,YAAa,GAAE,a;IACjB,OA A O,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAC,OAAQ,KAAI,W;G;EAG5C,MAAM,QAAS,GAAE,a;IACb,O AAO,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAC,CAAC,O;G;EAGjC,MAAM,WAAY,GAAE,a;IAChB,OA

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,W;O;KA7QX,C;sFAYA,yB;MAAA,wE;MAoQA,+D;MApQA,yC;QASW,kBAAU,oB;QAoQD,Q;QAaHb,iD;UA  
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AAL,C;UAAc,MAAa,6B;QAC3B,iBAAU,K;;QAGV,4BAAQ,SAAR,I;;MAEJ,OAAO,K;K;;IAQuB,oD;MAA4C,u  
B;MAAiB,gB;MAC5D,sBAA2B,I;MAC3B,iBAAmC,uBAAO,CAAX,GAAc,sBAAS,IAAT,MAAd,GAAiC,sBAA  
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AY,W;MACZ,IAAI,cAAS,mBAAT,CAAJ,C;QACI,IAAI,CAAC,cAAL,C;UAAc,MAAa,6B;QAC3B,iBAAU,K;;Q  
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,gCAAyB,wBAAzB,C;MAC5B,IAAI,SAAQ,WAAZ,C;QAA2B,MAAa,gCAAyB,wEAAzB,C;MAG5C,aAGyB,K;  
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GuB,I;K;yCAEvB,Y;MAAwC,mCAAwB,UAAxB,EAA+B,SAA/B,EAAqC,SAArC,C;K;wCAExC,Y;MACqC,OA  
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,Y;MACI,OAAl,cAAJ,GAAe,EAAf,GAAwB,OAAM,OAkK,UAAm,IAAX,UAAqB,SAAK,IAA1B,KAAAN,SAA2  
C,SAA3C,I;K;yCAE5B,Y;MAAkC,OAAl,YAAO,CAAX,GAAc,oBAAE,UAAf,+BAAU,SAAV,eAAqB,SAAAnC,  
GAA8C,oBAAE,UAAf,qCAAqB,SAAhB,gBAA4B,CAAC,SAAD,IAA5B,C;K;IAEHF,qC;MAAA,yC;K;kEACI,s  
C;MAQ2F,2BAAgB,UAAhB,EAA4B,QAA5B,EAA5C,IAAtC,C;K;;IAT/F,iD;MAAA,gD;QAAA,+B;OAAA,yC;  
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6C;MAAA,4C;QAAA,2B;OAAA,qC;K;IGmDA,mG;IAAA,yH;IAAA,6F;MAKW,kC;MAAS,4C;K;IALpB,sEAM  
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C,C;K;IAiC6C,oG;MAAA,mB;QAC3C,OAAK,iCAAL,CAAiB,kBAAjB,C;O;K;IA/BZ,6D;MA0BI,IAAS,SAAY,O  
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AMI,iBAAI,SAAJ,EAAU,OAAV,C;MACA,OAAO,I;K;mDAGX,2B;MAGc,UACF,M;MAHR,aAAa,K;MACb,cA  
Ac,K;MACJ,0B;MAAV,OAAU,cAAV,C;QAAU,mB;QACN,kBAAI,eAAJ,EAAI,uBAAJ,WAAc,CAAd,C;QACA,  
UAAU,I;;MAEd,OAAO,O;K;0CAGX,Y;MACI,yBAAY,CAAZ,EAAe,SAAf,C;K;IAGwE,gE;MAAA,qB;QAAE,O  
AAM,gBAAN,mB;O;K;sDAA9E,oB;MAAkE,yBAAU,8CAAV,C;K;IACU,gE;MAAA,qB;QAAE,QAAO,gBAAP,  
mB;O;K;sDAA9E,oB;MAAkE,yBAAU,8CAAV,C;K;6CAGIE,Y;MAAqD,iD;K;mDAErD,mB;MAAoD,0BAAQ,O  
AAR,KAAoB,C;K;kDAExE,mB;MACqB,Q;MAAA,6B;MAAJB,iBAAc,CAAd,yB;QACI,IAAI,wBAAI,KAAJ,GA  
Ac,OAA d,CAAJ,C;UACI,OAAO,K;;MAGf,OAAO,E;K;sDAGX,mB;MACI,iBAAc,sBAAd,WAA+B,CAA/B,U;Q  
ACI,IAAI,wBAAI,KAAJ,GAAC,OAA d,CAAJ,C;UACI,OAAO,K;;MAGf,OAAO,E;K;iDAGX,Y;MAA6D,iCAAa,  
CAAb,C;K;yDAC7D,iB;MAAuE,sDAAiB,KAAjB,C;K;oDAGvE,8B;MAA4E,uCAAQ,IAAR,EAAC,SAAd,EAAy  
B,OAAzB,C;K;wDAE5E,8B;MAII,eAAe,0BAAa,SAAb,C;MACf,YAAO,UAAU,SAAV,I;MtDgEX,iBAAc,CAAd,  
UAA sB,KAA tB,U;QsD/DiB,e;QACA,iB;;K;2CAIjB,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3B,I  
AAI,2BAAJ,C;QAAuB,OAAO,K;MAE9B,OAAO,oCAAa,uBAAc,IAAd,EAAoB,KAApB,C;K;6CAGxB,Y;MAG+  
B,OAAA,oCAAa,yBAAgB,IAAhB,C;K;IAG5C,kD;MAAA,oB;MACI,eACsB,C;MACtB,cAIqB,E;K;yDAErB,Y;  
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IB,CAAJ,C;QACI,c0D+BwB,sE;Q1D9BxB,MAAM,6BAAsB,OAAQ,WAA9B,C;O0DgCF,6BAAS,WAA T,C;MA  
CA,eAAQ,W;MACR,cAAO,E;K;;IAOqB,6D;MAHpC,oB;MAGmD,wD;MAG3C,oCAAa,4BAAMB,KAA nB,EAA  
0B,WAAyB,KAA nD,C;MACb,eAAa,K;K;iEAGjB,Y;MAAsC,sBAAQ,C;K;+DAE9C,Y;MAAgC,mB;K;8DAEhC,  
Y;MACI,IAAI,CAAC,kBAAL,C;QAAoB,MAAM,6B;MAE1B,eAAO,mCAAP,EAAO,YAAP,C;MACA,OAAO,w  
BAAI,WAAJ,C;K;mEAGX,Y;MAAoC,sBAAQ,CAAR,I;K;+DAEpC,mB;MACI,wBAAI,YAAJ,EAAW,OAA X,C;  
MACA,mC;MACA,cAAO,E;K;+DAGX,mB;M1DrEJ,IAAI,E0DsEU,gBAAQ,E1DtEIB,CAAJ,C;QACI,c0DqEwB,

4E;Q1DpExB,MAAM,6BAAsB,OAAQ,WAA9B,C;O0DqEF,wBAAYB,WAAzB,EAAiC,OAAjC,C;K;;IAIgb,+D;MAAuF,8B;MAAtF,kB;MAA0C,4B;MAC/D,eAAyB,C;MAGrB,oCAAa,2BAakB,gBAAIB,EAA6B,OAA7B,EAA sC,WAAK,KAA3C,C;MACb,eAAa,UAAU,gBAAV,I;K;wDAGjB,0B;MACl,oCAAa,4BAAmB,KAAmB,EAA0B, YAA1B,C;MAEb,WAAK,aAAI,mBAAY,KAAZ,IAAJ,EAAuB,OAAvB,C;MACL,mC;K;wDAGJ,iB;MACl,oCAA a,2BAakB,KAAIB,EAAyB,YAAzB,C;MAEb,OAAO,wBAAK,mBAAY,KAAZ,IAAL,C;K;6DAGX,iB;MACl,oC AAa,2BAakB,KAAIB,EAAyB,YAAzB,C;MAEb,aAAa,WAAK,kBAAS,mBAAY,KAAZ,IAAT,C;MACIB,mC;M ACA,OAAO,M;K;wDAGX,0B;MACl,oCAAa,2BAakB,KAAIB,EAAyB,YAAzB,C;MAEb,OAAO,WAAK,aAAI, mBAAY,KAAZ,IAAJ,EAAuB,OAAvB,C;K;+EAGO,Y;MAAQ,mB;K;;;IClLe,8B;MAAiC,sB;MA4BnF,uBAAoC, l;MA2CpC,yBAA6C,I;K;IAIER,oD;MAAC,wB;MAGlC,gBAAqB,K;K;iFAHa,Y;MAAA,yB;K;mFAKZ,Y;MAAQ ,oB;K;8DAE9B,oB;MACl,eAAe,IAAK,S;MACpB,gBAAC,Q;MACd,OAAO,Q;K;wDAGX,Y;MAA+B,iEAc,IAA d,C;K;wDAC/B,Y;MAAKC,iEAc,IAAd,C;K;sDACL,iB;MAA4C,+DAAY,IAAZ,EAakB,KAAIB,C;K;;IAAd5C,8 E;MAAA,wE;MAAsC,2CAAK,KAAM,IAAX,EAAGB,KAAM,MAATB,C;MAATC,Y;K;yCAkBJ,Y;MACl,YAAQ, Q;K;IAOQ,+F;MAAA,sD;MAAS,6B;K;uFACb,mB;MAAwC,MAAM,qCAA8B,8BAA9B,C;K;mFAC9C,Y;MACl, 4BAAwB,Q;K;4FAG5B,mB;MAAsD,sDAAY,OAAZ,C;K;IAI3C,oH;MAAA,kD;K;4GACH,Y;MAAKC,OAAA,0 BAAc,U;K;yGACHD,Y;MAAYB,OAAA,0BAAc,OAAO,I;K;2GAC9C,Y;MAAwB,0BAAc,S;K;;sFAL9C,Y;MACl ,oBAAoB,oCAAQ,W;MAC5B,6G;K;0FAOJ,mB;MACl,IAAI,+CAAY,OAAZ,CAAJ,C;QACl,4BAAwB,cAAO,O AAP,C;QACxB,OAAO,I;OAEX,OAAO,K;K;gHAGY,Y;MAAQ,OAAA,4BAAwB,K;K;;sEA3BnE,Y;MACl,IAAI, 4BAAJ,C;QACl,6F;OA4BJ,OAAO,mC;K;kDAKf,gB;MACyB,Q;MAAA,OAAA,ljEqR2D,QAAQ,W;MiErRxF,O AAqB,cAArB,C;QAAqB,wB;QAAf,UjEwMsD,U;QiExMjD,YjEqNiD,Y;QiEpNxD,iBAAI,GAJJ,EAAS,KAAT,C; ;K;IAQc,iG;MAAA,sD;MAAS,oC;K;yFACf,mB;MAAwC,MAAM,qCAA8B,gCAA9B,C;K;qFAC9C,Y;MAAuB,4 BAAwB,Q;K;8FAE/C,mB;MAAsD,wDAAC,OAAd,C;K;IAI3C,sH;MAAA,kD;K;8GACH,Y;MAAKC,OAAA,0BAA c,U;K;2GACHD,Y;MAAYB,OAAA,0BAAc,OAAO,M;K;6GAC9C,Y;MAAwB,0BAAc,S;K;;wFAL9C,Y;MACl, oBAAoB,oCAAQ,W;MAC5B,+G;K;kHAOmB,Y;MAAQ,OAAA,4BAAwB,K;K;sFAEvD,iB;MAEI,IAAI,SAAS, KAAb,C;QAAoB,OAAO,I;MAC3B,IAAI,iCAAJ,C;QAA6B,OAAO,K;MACpC,OAAO,oCAAa,uBAAc,IAAd,EA AoB,KAApB,C;K;wFAGxB,Y;MAA+B,OAAA,oCAAa,yBAAgB,IAAhB,C;K;;wEA1BxD,Y;MACl,IAAI,8BAAJ, C;QACl,iG;OA2BJ,OAAO,qC;K;gDAGf,e;MACl,WAAW,YAAQ,W;MACnB,OAAO,IAAK,UAAZ,C;QACl,YA AY,IAAK,O;QACjB,QAAQ,KAAM,I;QACd,IAAI,YAAO,CAAP,CAAJ,C;UACl,YAAY,KAAM,M;UACIB,IAA K,S;UACL,OAAO,K;;MAGf,OAAO,I;K;;IC5HoC,8B;MAAiC,oC;K;0CAEHf,iB;MAMI,IAAI,UAAU,IAAd,C;QA AoB,OAAO,I;MAC3B,IAAI,0BAAJ,C;QAAsB,OAAO,K;MAC7B,OAAO,mCAAY,mBAAU,IAAV,EAAGB,KAA hB,C;K;4CAGvB,Y;MAG+B,OAAA,mCAAY,2BAakB,IAAIB,C;K;;ICbT,0B;MAAuD,8B;MAAIC,4B;K;qCAmB vD,Y;K;iDAGA,uB;K;6DAG8B,Y;MAAQ,OAAA,oBAAM,O;K;sCAC5C,iB;MACyC,Q;MAAA,oCAAM,0BAA W,KAAAX,CAAN,4D;K;sCACzC,0B;MAGW,IAAa,I;MAFpB,0BAAW,KAAAX,C;MAEoB,gBAAb,qBAAM,KAA N,C;MAAqB,qC;MAA5B,OAAO,CAAa,OzDsCjB,SyDtCI,2D;K;oCAGX,mB;MACU,oBAAY,MAAK,OAAL,C; MACIB,qC;MACA,OAAO,I;K;sCAGX,0B;MACU,oBAAY,QAAO,mCAAoB,KAApB,CAAP,EAAmC,CAAnC,E AAsC,OAAtC,C;MACIB,qC;K;yCAGJ,oB;MACl,IAAI,QAAS,UAAb,C;QAAwB,OAAO,K;MAE/B,uBAAA,oB5 D8vCoB,QM7yC0C,YsD+CrD,QtD/CqD,CN6yC1C,C;M4D7vCpB,qC;MACA,OAAO,I;K;yCAGX,2B;MACl,mC AAoB,KAApB,C;MAEA,IAAI,UAAAS,SAAb,C;QAAMB,OAAO,oBAAO,QAAP,C;MAC1B,IAAI,QAAS,UAAb,C ;QAAwB,OAAO,K;MAE3B,IADE,KACF,e;QAAQ,OAAO,oBAAO,QAAP,C;WACf,IAFE,KAEF,O;QAAK,uBtD 3DqD,YsD2D7C,QtD3D6C,CN6yC1C,Q4DlvC6B,oB5DkvC7B,C;;Q4DjvCR,uBAAoC,cAA5B,oBAA4B,EAAV, CAAU,EAAP,KAAO,CAAY,QtD5DE,YsD4DK,QtD5DL,CsD4DF,EAA4C,cAAN,oBAAM,EAAY,KAAZ,EAAM B,SAAnB,CAA5C,C;;MAG5D,qC;MACA,OAAO,I;K;2CAGX,iB;MACl,0BAAW,KAAAX,C;MACA,qC;MACA,O AAW,UAAAS,sBAAb,GACG,oBAAY,MADf,GAGG,oBAAY,QAAO,KAAP,EAAc,CAAd,CAAIB,CAAmC,CAAn C,C;K;uCAGR,mB;MACkB,Q;MAAA,2B;MAAd,mD;QACl,IAAI,4BAAM,KAAAN,GAAGB,OAAbB,CAAJ,C;UA CU,oBAAY,QAAO,KAAP,EAAc,CAAd,C;UACIB,qC;UACA,OAAO,I;;MAGf,OAAO,K;K;8CAGX,8B;MACl,q C;MACM,oBAAY,QAAO,SAAP,EAakB,UAAU,SAAV,IAAIB,C;K;gCAGtB,Y;MACl,uBpBhGuC,E;MoBiGvC, qC;K;wCAIJ,mB;MAA+C,OAAM,QAAN,oBAAM,EAAQ,OAAR,C;K;4CAErD,mB;MAAMD,OAAM,YAAN,oB AAM,EAAY,OAAZ,C;K;mCAEzD,Y;MAA0B,qBAAC,oBAAd,C;K;kCAC1B,Y;MAAsC,OAAA,EAAS,MAAM, MAAK,oBAAL,C;K;+CAGrD,iB;MACl,oCAAa,kCAAYB,SAAZB,C;MADoB,Y;K;wDAIrC,iB;MACl,oCAAa,mC

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K0B,+B;QAAA,kBAaUB,C;MALjD,mD;MAKsD,sBpBdX,EoBcW,C;MALtD,Y;K;IAOA,2C;MAAA,mD;MAGq  
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;MACnB,2BAAGB,WAAy,S;MAFhC,Y;K;IAKA,+B;MAAA,iD;MAGuB,aAAK,kEAAAL,Q;MAHvB,Y;K;IAKA,4  
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W,uB;QAAA,UAAoB,S;MAAW,wB;QAAA,WAAsB,S;MAAW,uB;QAAA,UAA8B,S;MAC3J,QAAQ,E;MACR,  
EAAE,MAAF,IAAY,I;MACZ,EAAE,SAAF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,SAAF,IAAe,  
O;MACf,OAAO,C;K;+FAiCmE,qB;MAAQ,OAAa,Y;K;6FAEtB,qB;MAAQ,OAAy,W;K;+FAEnB,qB;MAAQ,OA  
Aa,Y;K;6FAEtB,qB;MAAQ,OAAy,W;K;6FAEpB,qB;MAAQ,OAAy,W;K;6FAQtC,qB;MAAQ,OAAy,W;K;6FA  
EpB,qB;MAAQ,OAAy,W;K;uFAEvB,qB;MAAQ,OAAS,Q;K;qFAEnB,qB;MAAQ,OAAO,M;K;uFAQX,qB;MAA  
Q,OAAS,Q;K;yFAEjB,qB;MAAQ,OAAS,Q;K;qGAEX,qB;MAAQ,OAAe,c;K;iFAEhC,qB;MAAQ,OAAM,K;K;iG  
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;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC3L,QAAQ,E;MACR,EAAE  
,kBAAF,IAAwB,gB;MACxB,EAAE,QAAF,IAAc,M;MACd,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;  
MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;mFAS8E,qB;MAAQ,OAA  
G,E;K;+FAEL,qB;MAAQ,OAAc,a;K;iFAE7B,qB;MAAQ,OAAO,M;K;yFAEX,qB;MAAQ,OAAW,U;K;+EAEvB,  
qB;MAAQ,OAAO,M;K;+EAEf,qB;MAAQ,OAAO,M;K;ICvHnE,6B;MAAC,qB;QAAA,8C;MAAA,kB;K;IACjC,2

C;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,yC;MAAA,4C;O;MAKI,0E;MAEA,sE;K;;IAFA,kD;MAAA,+B;MAA  
A,0C;K;;IAEA,gD;MAAA,+B;MAAA,wC;K;;IAPJ,qC;MAAA,yF;K;;IAAA,0C;MAAA,a;AAAA,S;UAAA,+C;aA  
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K;;ICCA,qC;K;;IA4BA,+B;K;;ICRqC,uC;MACjC,uB;QAAA,UAAAsB,E;MACtB,qB;QAAA,+C;MADA,sB;MACA  
,kB;K;IAEA,4C;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,0C;MAAA,6C;O;MAKI,4E;MAGA,wE;K;;IAHA,mD;  
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D,c;;QhI4/C7C,Q;QADhB,IAAI,mCAAsB,cAA1B,C;UAAqC,aAAO,K;UAAP,e;SACrB,sB;QAAhB,OAAgB,cAA  
hB,C;UAAgB,2B;UAAM,IgI5/C6C,OhI4/C/B,SgI5/C+B,UhI4/C7C,C;YAAwB,aAAO,I;YAAP,e;;QAC9C,aAAO,  
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,UAA1B,C;UAAqC,aAAO,I;UAAP,e;SACrB,OgIp+CZ,QhIo+CY,W;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UA  
AM,IAAI,CgIp+CP,oBhIo+CkB,OgIp+ClB,ChIo+CG,C;YAAyB,aAAO,K;YAAP,e;;QAC/C,aAAO,I;;MgIr+CH,i  
B;K;2CAEJ,Y;MAAkC,qBAAQ,C;K;IAEqB,qE;MAAA,qB;QAC3D,OAAI,OAAO,uBAAX,GAAiB,mBAAjB,GA  
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C;K;;IAHA,mC;MAAA,kB;MAAA,2B;K;;IACA,sC;MAAA,kB;MAAA,8B;K;;IACA,kC;MAAA,kB;MAAA,0B;K  
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Q,WAAjC,C;OuIZC,QAAM,oBAAN,M;aACH,M;UAAc,Y;UAAAd,K;aACA,O;UAAe,W;UAAf,K;gBACQ,wC;UA  
HL,K;;MAAP,W;K;sCAOJ,Y;MAIW,Q;MAHP,IAAI,CAAC,cAAL,C;QAAGB,MAAM,6B;MACtB,mD;MAEA,O  
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GJ,Y;MAIL,+C;K;;ICIDkC,wB;MAoFtC,oC;MAPfGe,6B;K;sCAIhE,Y;MAAuC,0C;K;2CAEvC,mB;MAAwD,uB;;  
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X,iE;MAAX,OAAO,+B;K;;IAO0B,sD;MAHzC,oB;MAGwD,iD;MAGhD,gEAAmB,KAAAnB,EAA0B,WAAkB,KA  
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AO,K;MAEjC,oBAAoB,KAAM,W;MACb,mB;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,gBAAGB,aAAc,O;QAC9

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d,S;K;gDAGX,iB;MAAwE,gBAAR,Y;MAAQ,c;;QnIo/CxD,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAA  
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I,CmI/7CK,2BnI+7CM,OmI/7CN,CnI+7CT,C;YAAyB,aAAO,K;YAAP,e;;QAC/C,aAAO,I;;MmIh8CH,iB;K;sCA  
GJ,e;MAAwC,Q;MAAA,4CAAc,GAAd,8B;K;qCAGxC,Y;MAK+B,OAAQ,SAAR,YAAQ,C;K;oCAEvC,Y;MAAk  
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,+CAAY,OAAZ,C;K;IAI3C,sG;MAAA,kD;K;8FACH,Y;MAAkC,OAAA,0BAAc,U;K;2FACHd,Y;MAAyB,OAA  
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B,K;K;;+DAb5D,Y;MACI,IAAI,4BAAJ,C;QACI,+E;OAcJ,OAAO,mC;K;IAOwD,uD;MAAA,qB;QAAE,2CAAS,  
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,MAAM,2BAAuB,gBAAvB,C;;QAArB,OAAmE,2BAAS,CAAT,C;K;IAEpH,sC;MAKwD,OAAI,mBAAJ,GAAe,I  
AAf,GAAyB,2BAAS,CAAT,C;K;IAEjF,+B;MAKgD,IAAI,mBAAJ,C;QAAe,MAAM,2BAAuB,gBAAvB,C;;QAA  
rB,OAAmE,2BAAS,2BAAT,C;K;IAEnH,qC;MAKuD,OAAI,mBAAJ,GAAe,IAAf,GAAyB,2BAAS,2BAAT,C;K;I  
AEhF,2C;MAK8E,kCAAc,SAAd,EAAyB,IAAzB,C;K;IAE9E,2C;MAK8E,kCAAc,SAAd,EAAyB,KAAzB,C;K;IA  
E9E,wE;MAEgB,UAGS,MAHT,EAcY,MAZ,EAc6B,M;MAfzC,IAAI,uCAAJ,C;QACI,OAAoC,cAA5B,sEAA4B,  
EAAc,SAAd,EAAyB,uBAAzB,C;MAExC,iBAAsB,C;MACD,oC;MAArB,qBAAkB,CAAIB,mC;QACI,cAAc,sBA  
AK,SAAL,C;QACd,IAAI,UAAU,OAAV,MAAsB,uBAA1B,C;UACI,Q;QAEJ,IAAI,eAAc,SAAIb,C;UACI,sBAA  
K,UAAL,EAAmB,OAAnB,C;QAEJ,+B;;MAEJ,IAAI,aAAa,cAAjB,C;QACwB,oC;QAAiB,mB;QAArC,oE;UACI,  
2BAAS,WAAT,C;QAEJ,OAAO,I;;QAEp,OAAO,K;;K;IAIf,sC;MAOI,aAAU,2BAAV,OAA2B,CAA3B,M;QACI,  
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AK,CAAL,CAAV,C;QACA,sBAAK,CAAL,EAAU,IAAV,C;;K;ICvTsC,wC;MAAkC,uB;MAAjC,0B;K;wEACpB,  
Y;MAAQ,OAAA,eAAS,K;K;iDACxC,iB;MAAkC,mCAAS,0BAAoB,KAApB,CAAT,C;K;;IAGT,gC;MAAyC,8B;  
MAAxC,0B;K;gEACH,Y;MAAQ,OAAA,eAAS,K;K;yCACxC,iB;MAAkC,mCAAS,0BAAoB,KAApB,CAAT,C;K  
;mCAEIC,Y;MAAuB,eAAS,Q;K;8CAChC,iB;MAAuC,OAAA,eAAS,kBAAS,0BAAoB,KAApB,CAAT,C;K;yCA  
EhD,0B;MAA8C,OAAA,eAAS,aAAI,0BAAoB,KAApB,CAAJ,EAAgC,OAAhC,C;K;yCACvD,0B;MACI,eAAS,a  
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,C;QAAA,OAA2B,8BAAY,KAAZ,I;;QAAuB,MAAM,8BAA0B,mBAAgB,KAAhB,2BAA0C,gBAAG,2BAAH,C  
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AAP,I;;QAAkB,MAAM,8BAA0B,oBAAiB,KAAjB,2BAA2C,gBAAG,cAAH,CAA3C,OAA1B,C;K;IAGID,+B;M  
AK+C,gCAAqB,SAArB,C;K;IAE/C,iC;MAM6D,wBAAa,SAAb,C;K;;;IIJtC7D,oD;MAQuF,wC;K;IARvF,8CASI,  
Y;MAAuC,8B;K;IAT3C,gF;ImJc8G,wC;MAAA,mB;QAAE,kBAAS,aAAT,C;O;K;IAThY,yB;MASqG,oCAAS,sB  
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8B;O;MAT3C,8E;MmJmB2I,qD;QAAA,mB;UAAE,gBAAS,qBAAT,C;S;O;MAH7I,gC;QAGkI,kCAAS,mCAAT,  
C;O;KAHII,C;IAKA,2B;MAQI,eAAe,6B;MACf,oBAA0B,+BAAN,KAAM,EAAwC,QAAxC,EAA+D,QAA/D,C;  
MAC1B,OAAO,Q;K;8FAGX,yB;MAAA,kD;MAAA,gC;QAGkI,gBAAS,aAAT,C;O;KAHII,C;IAGB0C,yB;K;+CA  
oBtC,kC;MAOI,IAAI,uCAA0B,QAAS,UAAvC,C;QAAkD,M;MACID,OAAO,sBAAS,QAAS,WAAIB,e;K;+CAG

X,kC;MAQqD,6BAAS,QAAS,WAAIB,e;K;,,,,,;IAezD,mC;MAA2C,wB;MACvC,eAAoB,C;MACpB,mBAA4B,I;MAC5B,sBAAYC,I;MACzC,gBAAoC,I;K;gDAEpC,Y;MACI,OAAO,IAAP,C;QACI,QAAM,YAAN,C;eACI,C;YAAA,K;eACA,C;YACI,IAAI,kCAAE,UAAAnB,C;cACI,eAAQ,C;cACR,OAAO,I;:cAEP,sBAAe,I;:YALvB,K;eAOA,C;YAAc,OAAO,K;eACrB,C;eAAA,C;YAAgC,OAAO,I;kBAC/B,MAAM,yB;;QAGIB,eAAQ,C;QACR,WAAW,4B;QACX,gBAAW,I;QACX,ItGhGR,oBD6CQ,WuGmDY,kBvGnDZ,CC7CR,C;;K;6CsGoGA,Y;MACU,IASe,I;MATrB,QAAM,YAAN,C;aACI,C;aAAA,C;UAAsC,OAAO,qB;aAC7C,C;UACI,eAAQ,C;UACR,OAAO,kCAAE,O;aAE1B,C;UACI,eAAQ,C;UACR,aACa,mF;UACb,mBAAY,I;UACZ,OAAO,M;gBAEH,MAAM,yB;;K;uDAlTB,Y;MACI,IAAI,CAAC,cAAL,C;QAAGB,MAAM,6B;;QAA8B,OAAO,W;K;2DAG/D,Y;MAA4C,QAAM,YAAN,C;aACx,C;UADwC,OAC1B,6B;aACd,C;UAFwC,OAExB,6BAAsB,sBAAtB,C;gBAFwB,OAGhC,6BAAsB,uCAAoC,YAA1D,C;;K;IAOqC,4E;MAAA,oB;QACzC,wCAAW,C;QAAX,OACA,yB;O;K;oDALR,+B;MACI,mBAAY,K;MACZ,eAAQ,C;MACR,OAA6C,0CAAtC,c;K;IAUsC,+E;MAAA,oB;QACzC,wCAAW,C;QAAX,OACA,yB;O;K;yDANR,kC;MACI,IAAI,CAAC,QAAS,UAAAd,C;QAAYB,M;MACzB,sBAAe,Q;MACf,eAAQ,C;MACR,OAA6C,6CAAtC,c;K;2DAMX,kB;MvGvBO,Q;MADP,euG0BI,MvG1BJ,C;MACO,QuGyBH,MvGzBG,+D;MuG0BH,eAAQ,C;K;8EAIR,Y;MAAQ,0C;K;;InJ5LhB,oD;MAQuF,wC;K;IARvF,8CASI,Y;MAAuC,8B;K;IAT3C,gF;sFAAA,yB;MAAA,kC;MAAA,0C;MAAA,kD;QAQuF,wC;O;MARvF,4CASI,Y;QAAuC,8B;O;MAT3C,8E;MAAA,2B;QAQuF,2C;O;KARvF,C;IAiBgE,+C;MAAA,mB;QAAE,sB;O;K;IALIE,kC;MAKuD,OAakB,2CAAT,+BAAS,E;K;IAEzE,8B;MAK6D,OAAI,QZ6oNtD,YAAQ,CY7oN0C,GAAwB,eAAxB,GAAsD,WAAT,QAAS,C;K;IAEnH,yB;MAG8C,kC;K;IAE9C,yB;MAAA,6B;K;uCACI,Y;MAA6C,kC;K;2CAC7C,a;MAA4B,kC;K;2CAC5B,a;MAA4B,kC;K;;IAHhC,qC;MAAA,oC;QAAA,mB;OAAA,6B;K;oFAMA,yB;MAAA,2D;MAAA,4B;QAM4D,uCAAQ,e;O;KANpE,C;IAgB4F,mH;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,wC;MAAA,wD;MAAA,kC;K;;;kDAAA,Y;::::cACxF,eAAe,uBAAa,W;cAC5B,IAAI,QAAS,UAAb,C;gBACI,gB;gCAAA,sCAAS,QAAT,O;oBAAA,2C;yBAAAY,yB;gBAAA,Q;;gBAEA,gB;gCAAA,sCAAS,iCAAT,O;oBAAA,2C;yBAAAY,yB;gBAAA,Q;::::cAJJ,W;;cAAA,W;;::::;K;IADwF,gE;MAAA,yD;uBAAA,uG;YAAA,S;IBAAA,Q;;IBAAA,uB;O;K;IAP5F,4C;MAOmF,gBAAS,uCAAT,C;K;IACb,4B;MAAE,OAAA,EAAG,W;K;IAL3E,8B;MAK8D,4BAAQ,cAAR,C;K;IAQQ,8B;MAAE,OA AA,EAAG,W;K;IAN3E,8B;MAM8D,4BAAQ,gBAAR,C;K;IAM1B,8B;MAAE,S;K;IAJtC,wC;MAEgB,Q;MADZ,IAAI,8CAAJ,C;QACI,OAA4C,CAApC,2EAAoC,kBAAQ,QAAR,C;OAEhD,OAAO,uBAAmB,SAAnB,EAAYB,gBAAzB,EAAiC,QAajC,C;K;IAGX,4B;MAUiB,Q;MAFb,YAAY,gB;MACZ,YAAY,gB;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,KAAM,WAAI,IAAK,MAAT,C;QACN,KAAM,WAAI,IAAK,OAAT,C;;MAEV,OAAO,UAAS,KAAT,C;K;IAUwB,0D;MAE/B,wB;QAAA,WAAgC,I;MADhC,0B;MACA,0B;MACA,4B;K;IAGuC,0E;MAAA,oD;MACnC,gBAAe,iCAAS,W;MACxB,iBAAqB,E;MACrB,gBAAmB,I;K;oEAEnB,Y;MACI,OAAO,aAAS,UAAhB,C;QACI,WAAW,aAAS,O;QACpB,IAAI,wCAAU,IAAV,MAAmB,sCAAvB,C;UACI,gBAAW,I;UACX,iBAAY,C;UACZ,M;;MAGR,iBAAY,C;K;8DAGhB,Y;MASW,Q;MARP,IAAI,mBAAa,EAajB,C;QACI,iB;MACJ,IAAI,mBAAa,CAAjB,C;QACI,MAAM,6B;MACV,aAAa,a;MACb,gBAAW,I;MACX,iBAAY,E;MAEZ,OAAO,yE;K;iEAGX,Y;MACI,IAAI,mBAAa,EAajB,C;QACI,iB;MACJ,OAAO,mBAAa,C;K;;2CAhC5B,Y;MAAuC,yD;K;;IA2C3C,qD;MAAY,0B;MAAmC,gC;K;IACJ,gF;MAAA,0D;MACnC,gBAAe,oCAAS,W;K;iEACxB,Y;MACI,OA AO,6CAAY,aAAS,OAAR,B,C;K;oEAGX,Y;MACI,OAAO,aAAS,U;K;;8CAPxB,Y;MAAuC,4D;K;qDAWvC,oB;M ACI,OAAO,uBAA4B,eAA5B,EAAsC,kBAAtC,EAAM,D,QAAnD,C;K;;IAUf,4D;MAAY,0B;MAAmC,gC;K;IACJ,8F;MAAA,wE;MACnC,gBAAe,2CAAS,W;MACxB,aAAY,C;K;wEACZ,Y;MAC0C,Q;MAAtC,OAAO,oDAAY,oBAAmB,iBAAnB,EAAM,B,yBAAnB,QA AZ,EAAYC,aAAS,OAAD,C;K;2EAGX,Y;MACI,OAAO,aAAS,U;K;;qDARxB,Y;MAAuC,mE;K;;IAkB3C,oC;MAAY,0B;K;IAC6C,wE;MACjD,gBAAe,gCAAS,W;MACxB,aAAY,C;K;6DACZ,Y;MAC2C,Q;MAAvC,OAAO,iBAAa,oBAAmB,iBAAnB,EAAM,B,yBAAnB,QAAb,EAA0C,aAAS,OAAnD,C;K;gEAGX,Y;MACI,OAAO,aAAS,U;K;;0CARxB,Y;MAAqD,wD;K;;IAmBzD,0D;MACI,4B;MACA,4B;MA CA,4B;K;IAEuC,sE;MAAA,gD;MACnC,iBAAgB,gCAAU,W;MAC1B,iBAAgB,gCAAU,W;K;4DAC1B,Y;MACI,OAAO,sCAAU,cAAU,OAAPB,EAA4B,cAAU,OAAtC,C;K;+DAGX,Y;MACI,OAAO,cAAU,UAAV,IAAuB,cAAU,U;K;;yCARhD,Y;MAAuC,uD;K;;IAC3C,6D;MACI,0B;MACA,gC;MACA,0B;K;IAEuC,4E;MAAA,sD;MACnC,gBAAe,kCAAS,W;MACxB,oBAAiC,I;K;+DAEjC,Y;MACI,IAAI,CAAC,2BAAL,C;QACI,MAAM,6B;MACV,OAAO,gCAAE,O;K;kEAG1B,Y;MACI,OAAO,2B;K;+EAGX,Y;MACQ,Q;MAAJ,IAAI,iEAA2B,KAA/B,C;QACI,oBAAe,I;MAEnB,OAAO,yBAAP,C;QACI,IAAI,CAAC,aAAS,UAAAd,C;UACI,OAAO,K;;UAEP,cAAc,aAAS,O;U

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AO,I;;MAInB,OAAO,I;K;;4CA9Bf,Y;MAAuC,0D;K;;;IA+Cd,qD;MACzB,0B;MACA,8B;MACA,0B;MC5QA,I  
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,WAAjC,C;OAFV,IAAI,EDkRQ,mBAAy,iBCiRpB,CAAJ,C;QACI,gBDiRkC,0DAAuD,eAAvD,WAAmE,iB;QCh  
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M,6B;MACV,6B;MACA,OAAO,aAAS,O;K;4DAGpB,Y;MACI,OAAO,YAAO,CAAP,IAAY,aAAS,U;K;;sCAZpC  
,Y;MAAuC,oD;K;;IASB3C,gD;MACI,0B;MACA,4B;K;IAEuC,0E;MAAA,oD;MACnC,gBAAe,iCAAS,W;MACx  
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B,Q;MALb,IAAI,mBAAa,EAAjB,C;QACI,iB;MACJ,IAAI,mBAAa,CAAjB,C;QACI,MAAM,6B;MACV,aACa,gF;  
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YAAW,yB;K;2DAEX,Y;MAEI,OAAO,YAAO,CAAP,IAAY,aAAS,UAA5B,C;QACI,aAAS,O;QACT,6B;;K;yDAI  
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D;K;;IA6B3C,gD;MACI,0B;MACA,4B;K;IAGuC,0E;MAAA,oD;MACnC,gBAAe,iCAAS,W;MACxB,iBAAqB,E;  
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,0D;MAAC,wC;MAAuC,kC;K;IACrC,0E;MAAA,oD;MACnC,gBAAmB,I;MACnB,iBAAqB,E;K;oEAErB,Y;MA  
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,C;QACI,iB;MACJ,OAAO,mBAAa,C;K;;2CAx5B,Y;MAAuC,yD;K;;IA6B3C,kC;MAWI,OAAW,iDAAJ,GAAw  
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A+B,Q;K;kCAC/B,Y;MAAkC,W;K;4DAEX,Y;MAAQ,Q;K;iCAC/B,Y;MAAkC,W;K;wCACIC,mB;MAAmD,Y;K

;6CACnD,oB;MAAmE,OAAA,QAAS,U;K;kCAE5E,Y;MAA6C,kC;K;uCAE7C,Y;MAAiC,6B;K;;;IADrC,gC;MAAA,+B;QAAA,c;OAAA,wB;K;IAkBA,oB;MAIoC,6B;K;IAEpC,2B;MAMmD,OAAI,QAAS,OAAT,GAAgB,CAA pB,GAAgC,MAAT,QAAS,CAAhC,GAA6C,U;K;iFAEHg,yB;MAAA,mD;MAAA,mB;QAKwC,iB;O;KALxC,C;6 FAOA,yB;MAAA,uE;MAAA,mB;QAQsD,2B;O;KARtD,C;IAUA,kC;MAKiE,OAAS,aAAT,QAAS,EAAa,qBAAc ,YAAy,QAAS,OAArB,CAAd,CAAb,C;K;uFAE1E,yB;MAAA,2D;MAAA,mB;QAGgD,qB;O;KAHhD,C;IAKA,+ B;MAC2D,OAAS,aAAT,QAAS,EAAa,eAAQ,YAAy,QAAS,OAArB,CAAR,CAAb,C;K;2FAEpE,yB;MAAA,uE; MAAA,mB;QAMwD,2B;O;KANxD,C;IAQA,iC;MAKmE,OAAS,aAAT,QAAS,EAAa,qBAAc,YAAy,QAAS,OA ArB,CAAd,CAAb,C;K;sFAE5E,yB;MAAA,uE;MAAA,gC;QAgB8B,gBAAnB,oB;QAAYB,aS1BhC,W;QT0BA,O SzBO,S;O;KTSX,C;wFAMBA,yB;MAAA,4E;MAAA,0D;MAAA,wE;MAAA,0C;QAoBI,qBAAqB,QAArB,C;QA C+C,gBAAxC,mBAAiB,YAAy,QAAs,CAAjB,C;QAA8C,aSIDrD,W;QTkDA,OSjDO,S;O;KT4BX,C;sFAyBA,yB ;MAAA,mD;MAAA,4B;QAEkD,uCAAQ,U;O;KAF1D,C;IAIA,wC;MAAgD,QAAM,cAAN,C;aAC5C,C;UAD4C, OACvC,U;aACL,C;UAF4C,OAEvC,MAAM,oBAAW,OAAjB,C;gBAFuC,OAGpC,S;;K;IlrIZ,oD;MAQuF,wC;K;I ARvF,8CASI,Y;MAAuC,8B;K;IAT3C,gF;IoJHA,yC;MnJ4BI,IAAI,EmJ3BI,OAAO,CAAP,IAAY,OAAO,CnJ2Bv B,CAAJ,C;QACI,cmJ3BI,aAAJ,GACI,yEADJ,GAGI,8C;QnJyBJ,MAAM,gCAAYB,OAAQ,WAAjC,C;Q;ImJnBM, mI;MAAA,mB;QAAE,wBAAiB,gCAAjB,EAA6B,YAA7B,EAAmC,YAAAnC,EAAyC,sBAAzC,EAAyD,mBAAzD ,C;O;K;IAFtB,gF;MACI,oBAAoB,IAApB,EAA0B,IAA1B,C;MACA,oCAAgB,6EAAhB,C;K;IAKyB,yL;MAAA, wC;MAAA,6B;MAAA,yB;MAAA,wC;MAAA,wC;MAAA,gD;MAAA,sD;MAAA,4D;MAAA,wB;MAAA,0B;MA AA,uB;MAAA,0B;MAAA,wB;MAAA,qB;MAAA,4B;MAAA,kC;K;;;2DAAA,Y;;;;;cACrB,4BAAiC,eAAL,uBA AK,EAAa,IAAb,C;+BACvB,0BAAO,uBAAP,I;cACV,IAAI,kBAAO,CAAX,C;oCACiB,iBAAa,qBAAb,C;kCACF ,C;gBACD,6C;gBAAV,iB;;;sCAaa,gBAAc,qBAAd,C;gBACH,+C;gBAAV,gB;;;;;cAAA,KAAU,2BAAV,C;gBA AA,gB;;;cAAU,kC;cACN,mBAAO,WAAI,GAAJ,C;cACP,IAAI,mBAAO,SAAX,C;gBACI,IAAI,mBAAO,KAAP, GAAC,uBAAIB,C;kBAA0B,sBAAS,mBAAO,kBAAuB,uBAAvB,C;kBAA8B,gB;;;kBAAxE,gB;;;gBADJ,gB;;;;;c AGI,gB;8BAAA,iCAAU,8BAAJ,GAAiB,mBAAjB,GAA6B,iBAAU,mBAAV,CAAnC,O;kBAAA,2C;uBAAA,yB; cAAA,Q;;cACA,mBAAO,qBAAY,uBAAZ,C;cAJX,gB;;;cAFJ,gB;;;cASA,IAAI,cAAJ,C;gBACI,gB;;;gBADJ,iB;; ;cACI,IAAO,mBAAO,KAAAd,IAAqB,uBAArB,C;gBAAA,gB;;;cACI,gB;8BAAA,iCAAU,8BAAJ,GAAiB,mBAA jB,GAA6B,iBAAU,mBAAV,CAAnC,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cACA,mBAAO,qBAAY,uBAAZ,C;cA FX,gB;;;cAIA,I1J+J4C,C0J/JxC,mB1J+JyC,U0J/J7C,C;gBAAyB,iB;gCAAA,iCAAM,mBAAN,O;oBAAA,2C;yBA AA,yB;gBAAA,Q;;gBAAzB,iB;;;;;cAjCR,W;;cA4BI,iB;;cA1BJ,iB;;cAGI,KAAU,yBAAV,C;gBAAA,iB;;;6BAA U,sB;cACN,IAAI,kBAAO,CAAX,C;gBAAgB,oCAAQ,CAAR,I;gBAAW,iB;;;gBAA3B,iB;;;;;cACA,iBAAO,WA AI,YAAJ,C;cACP,IAAI,iBAAO,KAAP,KAAe,uBAAAnB,C;gBACI,iB;gCAAA,iCAAM,iBAAN,O;oBAAA,2C;yB AAA,yB;gBAAA,Q;;gBADJ,iB;;;;;cAEI,IAAI,8BAAJ,C;gBAAiB,iBAAO,Q;;gBAAa,oBAAS,iBAAU,uBAAV,C;c AC9C,kBAAO,c;cAHX,iB;;cAHJ,iB;;cASA,I1JkLgD,C0JIL5C,iB1JkL6C,U0JILjD,C;gBACI,IAAI,qCAAKB,iBA AO,KAAP,KAAe,uBAArC,C;kBAA2C,iB;kCAAA,iCAAM,iBAAN,O;sBAAA,2C;2BAAA,yB;kBAAA,Q;;kBAA 3C,iB;;;;;gBADJ,iB;;;;;cAdJ,W;;cAcI,iB;;cAZJ,iB;;cAkCJ,W;;K;IArCyB,sI;MAAA,yD;uBAAA,6K;YAA A,S;iBAAA,Q;;iBAAA,uB;O;K;IAF7B,6E;MACI,IAAI,CAAC,QAAS,UAAAd,C;QAAYB,OAAO,2B;MACHC,OAA O,WAAkB,0EAAIB,C;K;IAwCwB,6B;MAA8B,uB;MAA7B,kB;MACHC,mBAA6B,C;MAC7B,eAAyB,C;K;2CAE zB,8B;MACI,+DAAkB,SAAIB,EAA6B,OAA7B,EAA5C,WAAK,KAA3C,C;MACA,mBAAiB,S;MACjB,eAAa,U AAU,SAAV,I;K;0CAGjB,iB;MACI,+DAAkB,KAAIB,EAAyB,YAAzB,C;MAEA,OAAO,wBAAK,mBAAy,KAA Z,IAAL,C;K;iEAGY,Y;MAAQ,mB;K;;IASR,wC;MAAQD,uB;MAApD,sB;MnJrDxB,IAAI,EmJuDQ,cAAc,CnJvD tB,CAAJ,C;QACI,cmJsD2B,wE;QnJrD3B,MAAM,gCAAYB,OAAQ,WAAjC,C;OAFV,IAAI,EmJwDQ,cAAc,aAA O,OnJxD7B,CAAJ,C;QACI,gBmJuDqC,wFAA+E,aAAO,O;QnJtD3H,MAAM,gCAAYB,SAAQ,WAAjC,C;OmJ2D V,kBAAuB,aAAO,O;MAC9B,oBAA8B,C;MAE9B,sBAAyB,U;K;8DAAzB,Y;MAAA,0B;K,OAAA,gB;MAAA,0 B;K;uCAGA,iB;MAGW,Q;MAFP,+DAAkB,KAAIB,EAAyB,SAAZB,C;MAEA,OAAO,sBAmGmC,CAN5B,iBA mG6B,GAnGV,KAmGU,IAAD,IAAa,eAnGhD,4D;K;kCAGX,Y;MAAe,qBAAQ,e;K;IAEgB,4D;MAAA,sC;MAA S,2B;MAC5C,eAAoB,oB;MACpB,eAAoB,4B;K;8DAEpB,Y;MAKgB,Q;MAJZ,IAAI,iBAAS,CAAb,C;QACI,W;; QAGA,mBAAQ,sCAAQ,YAAP,4DAAR,C;QACA,eAoFkC,CAPF1B,YAoF2B,GAPfB,CAoFa,IAAD,IAAa,+B;Q AnF/C,mC;;K;;oCAXZ,Y;MAAuC,kD;K;2CAgBvC,iB;MAGiE,UAQ1C,MAR0C,EAe1C,MAf0C,EAqBtD,M;MAT BP,aACQ,KAAM,OAAO,GAAa,IAAK,KAAtB,GAAC,UAAN,KAAM,EAAO,IAAK,KAAZ,CAAlC,GAAYD,kD

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6CACI,gB;QAAwC,+BAAW,CAAX,EAAC,CAAd,C;O;MAD5C,kF;MDoGA,iCAOe,yB;QAxFf,8D;eAwFe,4B;U  
AAA,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;  
W;S;OA+EL,C;MAPf,2B;QAOI,oCAAW,oCAAX,C;O;KAPJ,C;8GASA,yB;MC7GA,kC;MAAA,oC;MAAA,sD;Q  
AAsG,4C;O;MAAtG,6CACI,gB;QAAwC,+BAAW,CAAX,EAAC,CAAd,C;O;MAD5C,kF;MDuHe,0E;QAAA,uB;  
UAAU,iBAAsB,kB;UAAtB,eAAkC,gB;UAAIC,OA/Ed,UAAW,SAAQ,SA+EW,CA/EX,CAAR,EAAqB,SA+EC,C  
A/ED,CAArB,C;S;O;MAqEtB,uC;QAUI,oCAAW,gDAAX,C;O;KAVJ,C;kFAYA,yB;MAAA,sC;MCzHA,kC;MA  
AA,oC;MAAA,sD;QAAsG,4C;O;MAAtG,6CACI,gB;QAAwC,+BAAW,CAAX,EAAC,CAAd,C;O;MAD5C,kF;M  
DyHA,oBAQe,yB;QA9Gf,8D;eA8Ge,yC;UAAA,uB;YACP,sBAAsB,WAAy,SAAQ,CAAR,EAAW,CAAX,C;YA  
CIC,Q;YAAA,IAAI,oBAAmB,CAAvB,C;cAAA,OAA0B,e;;cAAqB,eAAsB,gB;cAArE,OAjGG,cAAc,SAuG8C,C  
AvG9C,CAAd,EAA2B,SAuGoC,CAvGpC,CAA3B,C;;YAsGH,W;W;S;OADO,C;MARf,sC;QAQI,oCAAW,kCAA  
X,C;O;KARJ,C;oFAaA,yB;MCiIA,kC;MAAA,oC;MAAA,sD;QAAsG,4C;O;MAAtG,6CACI,gB;QAAwC,+BAA  
W,CAAX,EAAC,CAAd,C;O;MAD5C,kF;MD8Ie,0E;QAAA,uB;UACP,sBAAsB,WAAy,SAAQ,CAAR,EAAW,CA  
AX,C;UACIC,Q;UAAA,IAAI,oBAAmB,CAAvB,C;YAAA,OAA0B,e;;YAAqB,iBAAsB,kB;YAAtB,eAAkC,gB;Y  
AAjF,OAxGG,UAAW,SAAQ,SAwGyC,CAXGzC,CAAR,EAAqB,SAwG+B,CAXG/B,CAArB,C;;UAuGd,W;S;O;  
MATR,kD;QAQI,oCAAW,8CAAX,C;O;KARJ,C;sGAaA,yB;MAAA,sC;MCnJA,kC;MAAA,oC;MAAA,sD;QAAs  
G,4C;O;MAAtG,6CACI,gB;QAAwC,+BAAW,CAAX,EAAC,CAAd,C;O;MAD5C,kF;MDmJA,8BAQe,yB;QAxIf,  
8D;eAwIe,mD;UAAA,uB;YACP,sBAAsB,qBAAsB,SAAQ,CAAR,EAAW,CAAX,C;YAC5C,Q;YAAA,IAAI,oBA  
AmB,CAAvB,C;cAAA,OAA0B,e;;cAAqB,eAAsB,gB;cAArE,OAjIG,cAAc,SAiI8C,CAjI9C,CAAd,EAA2B,SAiI  
C,CAjIpC,CAA3B,C;;YAgIH,W;W;S;OADO,C;MARf,sC;QAQI,oCAAW,4CAAX,C;O;KARJ,C;wGAaA,yB;MCh  
KA,kC;MAAA,oC;MAAA,sD;QAAsG,4C;O;MAAtG,6CACI,gB;QAAwC,+BAAW,CAAX,EAAC,CAAd,C;O;MA  
D5C,kF;MDwKe,8F;QAAA,uB;UACP,sBAAsB,qBAAsB,SAAQ,CAAR,EAAW,CAAX,C;UAC5C,Q;UAAA,IAA  
I,oBAAmB,CAAvB,C;YAAA,OAA0B,e;;YAAqB,iBAAsB,kB;YAAtB,eAAkC,gB;YAAjF,OAIIG,UAAW,SAAQ,  
SAkIyC,CAIIZC,CAAR,EAAqB,SAkI+B,CAI/B,CAArB,C;;UAIId,W;S;O;MATR,kD;QAQI,oCAAW,wDAAX,C;  
O;KARJ,C;kGAcA,yB;MC9KA,kC;MAAA,oC;MAAA,sD;QAAsG,4C;O;MAAtG,6CACI,gB;QAAwC,+BAAW,C  
AAX,EAAC,CAAd,C;O;MAD5C,kF;MDqLe,wE;QAAA,uB;UACP,sBAAsB,mBAAoB,SAAQ,CAAR,EAAW,CA  
AX,C;UAA1C,OACI,oBAAmB,CAAvB,GAA0B,eAA1B,GAA+C,mBAAW,CAAX,EAAC,CAAd,C;S;O;MATvD,  
wC;QAOI,oCAAW,4CAAX,C;O;KAPJ,C;IAmBe,oD;MAAA,uB;QACP,sBAAsB,SAAU,SAAQ,CAAR,EAAW,C

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K;IATIE,uC;MAOI,sCAAW,kCAAX,C;K;IAyC,wE;MAAA,uB;QACV,sBAAsB,mBAaOB,SAAQ,CAAR,EAAW,  
CAAX,C;QAA1C,OACI,oBAAmB,CAAvB,GAA0B,eAA1B,GAA+C,kBAAW,SAAQ,CAAR,EAAW,CAAX,C;O;  
K;IATIE,+C;MAOI,sCAAc,4CAAd,C;K;IAaW,+C;MAAA,uB;QAEH,UAAM,CAAN,C;UADJ,OACe,C;aACX,c;  
UAFJ,OAEiB,E;aACb,c;UAHJ,OAGiB,C;;UAHjB,OAIY,kBAAW,SAAQ,CAAR,EAAW,CAAX,C;O;K;IAZ/B,gC  
;MAOI,sCAAW,6BAAX,C;K;4FASJ,yB;MAAA,4D;MAAA,wD;MAAA,mB;QAOqE,kBAAW,cAAX,C;O;KAPrE  
,C;IAgBe,8C;MAAA,uB;QAEH,UAAM,CAAN,C;UADJ,OACe,C;aACX,c;UAFJ,OAEiB,C;aACb,c;UAHJ,OAGi  
B,E;;UAHjB,OAIY,kBAAW,SAAQ,CAAR,EAAW,CAAX,C;O;K;IAZ/B,+B;MAOI,sCAAW,4BAAX,C;K;0FASJ,  
yB;MAAA,4D;MAAA,sD;MAAA,mB;QAOoE,iBAAU,cAAV,C;O;KAPpE,C;IASA,wB;MAK4F,Q;MAA7B,OAA  
6B,4F;K;IAE5F,wB;MAK4F,Q;MAA7B,OAA6B,4F;K;IAE5F,gC;MAK+D,IAEJ,IAFI,EAGJ,M;MAFvD,kBAD2  
D,SAC3D,sB;QADqD,OAC5B,SAAK,W;WAC9B,WAF2D,SAE3D,wC;QAFqD,OAEe,4F;WACvD,WAH2D,SA  
G3D,wC;QAHqD,OAGE,gG;;QAHF,OAI7C,uBAAmB,SAAnB,C;K;IAIuB,wC;MAAC,4B;K;2CACChC,gB;MAAw  
C,OAAA,eAAW,SAAQ,CAAR,EAAW,CAAX,C;K;4CACnD,Y;MACgC,sB;K;;IAGpC,kC;MAAA,sC;K;+CACI,g  
B;MAAoE,OAAE,iBAAF,CAAE,EAAU,CAAV,C;K;gDACtE,Y;MAC8C,2C;K;;IAHID,8C;MAAA,6C;QAAA,4  
B;OAAA,sC;K;IAMA,kC;MAAA,sC;K;+CACI,gB;MAAoE,OAAE,iBAAF,CAAE,EAAU,CAAV,C;K;gDACtE,Y;  
MAC8C,2C;K;;IAHID,8C;MAAA,6C;QAAA,4B;OAAA,sC;K;ImJ/SA,iC;K;;;oDA2DI,0C;MAiB+D,oB;QAAA,2  
C;aAjB/D,kG;K;;IAoBJ,uC;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,qC;MAAA,wC;O;MASI,4E;MAMA,8E;MA  
OA,4E;MAOA,kE;K;;IApBA,mD;MAAA,2B;MAAA,2C;K;;IAMA,oD;MAAA,2B;MAAA,4C;K;;IAOA,mD;MA  
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AAA,gD;aAAA,e;UAAA,iD;aAAA,c;UAAA,gD;aAAA,S;UAAA,2C;gBAAA,oE;;K;;oFAqCA,mB;K;;;;  
IzGe0C,gD;MAAA,oB;QACIC,WAAW,sBAAmB,YAAF,CAAE,CAAnB,C;QACX,cAAM,IAAN,C;QADA,OAE  
A,IAAK,a;O;K;;;IArHb,+B;K;;iFAUA,yB;MAAA,4B;MAAA,mC;QAMI,6BD6CQ,Wc7CkB,KD6CIB,CC7CR,C;  
O;KANJ,C;2GAQA,yB;MAAA,4B;MD6CQ,kD;MC7CR,uC;QAOI,6BD2CQ,WAAO,cC3CW,SD2CX,CAAP,CC3  
CR,C;O;KAPJ,C;+FAUA,yB;MAAA,kC;MAAA,mD;MAAA,yE;QASI,sC;QAAA,4C;O;MATJ,6EAWY,Y;QAAQ  
,2B;OAXpB,E;MAAA,0DAaQ,kB;QACI,wBAAW,MAAX,C;O;MAdZ,sF;MAAA,sC;QASI,0D;O;KATJ,C;IAiBA,  
gD;MAaI,4BAA0D,YAAzC,wCAA6B,UAA7B,CAAYC,CAA1D,EAAyE,yBAaZ,E,C;K;IAEJ,4D;MAcI,4BAAoE,  
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AA,yD;O;KAXJ,C;qGAwBI,yB;MAAA,2D;MAAA,mB;QACI,MAAM,6BAAoB,0BAApB,C;O;KADV,C;;M0Gtl  
A,yC;;IAAA,uC;MAAA,2C;K;;IAAA,mD;MAAA,kD;QAAA,iC;OAAA,2C;K;+EAkBA,wB;K;oDAaA,e;MAK2C  
,IAAI,IAAJ,EAGK,M;MAL5C,IAAI,+CAAJ,C;QAEI,OAAW,GAAl,kBAAS,IAAK,IAAd,CAAR,GAA4B,cAAI,O  
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D,I;K;yDAI/D,e;MAGI,IAAI,+CAAJ,C;QACI,OAAW,GAAl,kBAAS,IAAK,IAAd,CAAJ,IAA0B,GAAL,iBAAQ,I  
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B,C;;UACrB,WAAW,OAAQ,kBAAS,yCAAT,C;UAL3B,OAMY,SAAS,mCAAb,GAAoC,oBAAgB,OAAhB,EAA  
yB,WAAzB,CAApC,GACI,oBAAgB,oBAAgB,IAAhB,EAAhB,OAAtB,CAAhB,EAAgD,WAAhD,C;;K;8CAdxB,  
mB;MAKI,OAAI,YAAy,mCAAhB,GAAuC,IAAvC,GACI,OAAQ,cAAK,IAAL,EAAW,4BAAX,C;K;;;qDAiCZ  
,e;MAEyB,Q;MADrB,OACI,OAAA,IAAK,IAAL,EAAy,GAAZ,CAAJ,GAAqB,0EAArB,GAAoC,I;K;sDAExC,8  
B;MACI,iBAAU,OAAV,EAAMB,IAAnB,C;K;0DAEJ,e;MACI,OAAI,OAAA,IAAK,IAAL,EAAy,GAAZ,CAAJ,G  
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,8B;MAEGD,QAAM,SAAN,M;aAC5C,a;UAD4C,OACbB,I;aAC5B,c;UAF4C,OAEf,I;aAC7B,c;UAH4C,OAGf,I;a  
AC7B,S;UAJ4C,OAIpB,G;aACxB,S;UAL4C,OAKpB,G;aACxB,O;UAN4C,OAMtB,G;aACtB,M;UAP4C,OAovB,  
G;gBAPuB,mC;;K;IChDhD,4B;K;;;MC4BI,kC;;IAXA,gC;MAAA,oC;MAM0B,2BAAc,iC;K;8CACpC,Y;MAAkC,  
OAAA,iCAAoB,W;K;6CADhC,Y;MAAA,yC;K;;;IAN1B,4C;MAAA,2C;QAAA,0B;OAAA,oC;K;IAWA,gC;MA  
AA,oC;K;;;IAAA,4C;MAAA,2C;QAAA,0B;OAAA,oC;K;IAKJ,oB;K;qCAcI,oB;MAK8D,4BAAiB,IAAjB,EAAu  
B,QAAvB,C;K;sCAE9D,oB;MAK+D,wBAAM,QAAD,aAAL,C;K;sCAG/D,Y;MAMqC,QAAC,iBAAa,a;K;yCAE  
nD,Y;MAMwC,OAAA,iBAAa,a;K;;4EAIzD,yB;MAAA,4C;MAAA,mC;QAOUe,MAAM,WAAM,0BAAN,C;O;K  
AP7E,C;mFASA,yB;MAAA,4C;MAAA,mC;QAOSe,MAAM,WAAM,0BAAN,C;O;KAP5E,C;IAW8B,4C;MAAi  
D,mB;MAAhD,gB;MAAoB,4B;K;4CAC/C,Y;MAAsC,OAAA,SAAK,aAAL,cAAoB,eAApB,C;K;6CAEtC,oB;MA  
AkD,4BAAiB,SAAjB,EAAuB,4BAAa,QAAb,CAAvB,C;K;;IC9FV,sC;MAAC,gB;K;IAOf,4E;MAA8G,mB;MAA  
7G,4B;MAA6B,8B;MAAgD,sB;K;+DACpG,Y;MAAsC,OAAgC,aAA/B,iBAAW,OAAX,UAAoB,gBAApB,CAA+  
B,EAAW,iBAAW,KAAiB,CAAhC,cAA8D,aAA9D,C;K;gEACtC,oB;MAAkD,+CAAA,gBAAb,EAawB,iBAAxB,  
EAAoC,0BAAS,QAAT,CAApC,C;K;;+CAGtD,Y;MAAmC,+CAAA,WAAb,EAAqB,IAArB,EAA2B,gCAAS,KAA  
pC,C;K;;IAUO,wC;MAAC,gB;K;IAOf,gF;MAAKh,mB;MAAJH,4B;MAA+B,8B;MAAkD,sB;K;mEAC1G,Y;MA  
AsC,OAAgC,aAA/B,iBAAW,OAAX,GAAoB,gBAAW,EAAW,iBAAW,KAAtB,CAAhC,cAA8D,aAA9D,C;K;oE

ACtC,oB;MAAkD,mDAAe,gBAAf,EAA0B,iBAA1B,EAAcC,0BAAS,QAAT,CAAtC,C;K;;iDAGtD,Y;MAAmC,mDAAe,WAAf,EAAuB,IAAvB,EAA6B,gCAAS,KAAtC,C;K;;IAGvC,0B;MAGB8B,yE;MAC1B,mB;K;oCAEA,Y;MAA4B,qB;K;iDAE5B,oB;MAYc,Q;MAFV,YAAY,QAAS,kBAAS,SAAT,C;MACrB,gBAAsB,uBAAN,KAAM,C;MACZ,IAAI,gDAA+B,4CAAnC,C;QAEN,iBAAiB,mBAAU,SAAV,C;QACjB,IAAI,mBAAY,SAAZ,gBAAYB,CAAzB,IAA8B,mBAAY,UAAZ,eAAyB,CAA3D,C;UAA8D,gBAAS,QAAT,C;QAC9D,iB;;QAGA,mBAAiB,4BA AU,K;QAC3B,IAAI,sDAA+B,kDAAnC,C;UAAgE,gBAAS,QAAT,C;QACrD,8BAAX,YAAW,C;;MATf,qB;K;0C AaJ,oB;MACI,MAAM,6BAAsB,iDAA+C,cAA/C,qCAA0E,QAA1E,MAAtB,C;K;;qFC7Fd,yB;MAAA,yC;MAAA,wB;QA2BI,WAAW,8B;QAhB6B,KAiBxC,E;QAJBA,OAKBO,IAAK,a;O;KA7BhB,C;uFAeA,4B;MAYI,WAAW,mB;MACX,O;MACA,OAAO,IAAK,a;K;IAYe,qC;MAAC,kB;MAAc,wB;K;;sCAR9C,Y;MAQgC,iB;K;sCARhC,Y;MAQ8C,oB;K;wCAR9C,2B;MAAA,sBAQgC,qCARhC,EAQ8C,8CAR9C,C;K;oCAAA,Y;MAAA,OAQgC,iDA RhC,IAQ8C,8CAR9C,O;K;oCAAA,Y;MAAA,c;MAQgC,sD;MAAc,yD;MAR9C,a;K;kCAAA,iB;MAAA,4IAQgC,sCARhC,IAQ8C,4CAR9C,I;K;iGAUA,yB;MAAA,yC;MAGBA,8C;MAhBA,wB;QA6BI,WAAW,8B;QACX,aAjB8 C,KAiBjC,E;QAJBb,OAKBO,oBAAW,MAAX,EAAMB,IAAK,aAAxB,C;O;KA/BX,C;mGAgBA,yB;MAAA,8C;M AAA,mC;QAaI,WAAW,mB;QACX,aAAa,O;QACb,OAAO,oBAAW,MAAX,EAAMB,IAAK,aAAxB,C;O;KAFX,C;4EC1DA,yB;MAAA,8B;MAAA,4B;QAOyC,Q;QAAA,gFAAoB,C;O;KAP7D,C;ICM0B,4C;MA+CtB,qC;MA/C uB,kB;MAAgB,kB;MAAgB,kB;MAMvD,iBAAsB,iBAAU,UAAV,EAAiB,UAAjB,EAawB,UAAxB,C;K;0CAEtB ,+B;MjLWA,IAAI,EiLViB,CAAT,sBAAY,GAAZ,KAA4C,CAAT,sBAAY,GAA/C,MAA+E,CAAT,sBAAY,GAAL F,CjLUR,CAAJ,C;QACI,ciLVI,2E;QjLWJ,MAAM,gCAAYB,OAAQ,WAAjC,C;OiLTN,OAAO,CAAA,KAAM,IA AI,EAAV,KAAgB,KAAM,IAAI,CAA1B,IAA+B,KAA/B,I;K;uCAGX,Y;MAGkC,OAAE,UAAF,oBAAS,UAAT,S AAgB,U;K;qCAEID,iB;MAEwB,gB;MADpB,IAAI,SAAS,KAAb,C;QAAoB,OAAO,I;MACP,iE;MAAD,mB;QAA 6B,OAAO,K;OAAvD,mBAAMB,M;MACnB,OAAO,IAAK,UAAI,KAAgB,YAAa,U;K;uCAGxY,C;Y;MAA+B,qB; K;8CAE/B,iB;MAAoD,wBAAU,KAAM,UAAhB,I;K;gDAEpD,wB;MAKI,OAAA,IAAK,MAAL,GAAa,KAAb,K AAuB,IAAK,MAAL,KAAc,KAAc,IACf,IAAK,MAAL,IAAc,KADtB,C;K;gDAGJ,+B;MAKI,OAAA,IAAK,MAA L,GAAa,KAAb,KAAuB,IAAK,MAAL,KAAc,KAAc,KACd,IAAK,MAAL,GAAa,KAAb,KAAsB,IAAK,MAAL,K AAc,KAAc,IACf,IAAK,MAAL,IAAc,KADrB,CADc,CAAvB,C;K;IAIJ,mC;MAAA,uC;MACI,2BAIuC,G;MAEv C,eAIoC,kBAAC,CAAd,EAAiB,CAAjB,EAAoB,EAAPB,C;K;;IAXxC,+C;MAAA,8C;QAAA,6B;OAAA,uC;K;;I A9CA,iD;MAAA,uD;MAG6C,0BAAK,KAAL,EAAY,KAAZ,EAAMB,CAAnB,C;MAH7C,Y;K;4FCKA,yB;MAA A,2D;MAAA,4B;QAAQ,MAAM,6BAAoB,6BAApB,C;O;KAAc,C;;;ICSJ,uB;MAG2C,+BAAoB,KAApB,C;K;4E AE3C,wC;MAO4F,sB;K;IAE5F,6C;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,2C;MAAA,8C;O;MAKI,wF;MAKA ,sF;MAMA,wE;K;;IAXA,yD;MAAA,iC;MAAA,iD;K;;IAKA,wD;MAAA,iC;MAAA,gD;K;;IAMA,iD;MAAA,iC; MAAA,yC;K;;IAhBJ,uC;MAAA,iJ;K;;IAAA,4C;MAAA,a;aAAA,c;UAAA,sD;aAAA,a;UAAA,qD;aAAA,M;UAA A,8C;gBAAA,gE;;K;;IAYBA,+B;MAAA,mC;K;;IAAA,2C;MAAA,0C;QAAA,yB;OAAA,mC;K;IAGoC,qC;MAC hC,qBAAsC,W;MACtC,gBAA2B,iC;K;mEAGvB,Y;MAMW,Q;MALP,IAAI,kBAAW,iCAAf,C;QACI,gBAAS,m C;QACT,qBAAC,I;OAGIB,OAAO,gF;K;6CAGf,Y;MAAwC,yBAAW,iC;K;wCAEnD,Y;MAAkC,OAAI,oBAAJ,G AA2B,SAAN,UAAM,CAA3B,GAA2C,iC;K;8CAE7E,Y;MAAkC,+BAAoB,UAApB,C;K;;IAGG,oC;MAAC,4B;K ;wEAAA,Y;MAAA,2B;K;kDAEtC,Y;MAAwC,W;K;6CAExC,Y;MAAkC,OAAM,SAAN,UAAM,C;K;;oFC2C5C, yB;MAAA,gD;MAAA,4B;QAM6C,OAAmB,aAaIB,YAAY,GAAM,C;O;KANhE,C;oGAQA,yB;MvF7FA,iB;MuF 6FA,4B;QAMqD,OvF5FqB,auF4FpB,YAAY,GvF5Fq,CuF4FrB,GAA6C,EAA7C,I;O;KANrD,C;sGAQA,yB;MA AA,kE;MAAA,4B;QAMsD,OAAmB,sBAaIB,YAAW,GAAO,C;O;KANzE,C;8FAQA,yB;MAAA,0D;MAAA,0B; MAAA,4B;QAOmD,OAAuC,OAApB,kBAaIB,YAAY,GAAM,CAAoB,C;O;KAP1F,C;4FASA,yB;MAAA,wD;M AAA,0B;MAAA,4B;QAOkD,OAA2B,OAAAnB,iBAAR,SAAQ,CAAMB,C;O;KAP7E,C;IAUA,2C;MAaI,OAA+E, OAA9E,SAAQ,KAAI,WAAa,CAAjB,CAAR,GAakD,CAaIB,YAAY,GAAM,MAAK,CAAL,IAAU,WAAa,CAA vB,CAA4B,C;K;IAEnF,4C;MAaI,OAA+E,OAA9E,SAAQ,IAAI,CAAJ,IAAS,WAAa,CAAtB,CAAR,GAAwD,CAA lB,YAAY,GAAM,OAkK,WAAa,CAaIB,CAAsB,C;K;oFAEnF,yB;MAAA,gD;MAAA,4B;QAM8C,OAAqB,aAA pB,YAAY,KAAQ,C;O;KANnE,C;oGAQA,yB;MvFtKA,iB;MuFsKA,4B;QAOI,OvFtKsE,auFsKrE,YAAY,KvFtK yD,CuFsKtE,GAA+C,EAA/C,I;O;KAPJ,C;sGASA,yB;MAAA,kE;MAAA,4B;QAMuD,OAAqB,sBAAPB,YAAW, KAAS,C;O;KAN5E,C;8FAQA,yB;MAAA,0D;MAAA,4B;MAAA,4B;QAOqD,OAAyC,QAAPB,kBAAPB,YAAY, KAAQ,CAAoB,C;O;KAP9F,C;4FASA,yB;MAAA,wD;MAAA,4B;MAAA,4B;QAOoD,OAA2B,QAAnB,iBAAR,

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X,C;O;KAX3C,C;0EAYA,yB;MAAA,0B;MAAA,+B;MAAA,4B;QAWyC,sBAAW,OAAL,SAAK,CAAX,C;O;KA  
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,I;UAAP,e;SACrB,6B;QAAhB,OAAGB,gBAAhB,C;UAAgB,2B;UU/7C6B,2BV+7CR,OU/7CQ,Q;UAAA,W;YAA  
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AOiD,Q;MAAA,2CAAe,KAAf,oBAAyB,kBAAkB,SAAlB,C;K;IAE1E,6B;MAMmC,Q;MAAA,yDAAkB,kBAAk  
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BAAgB,qBAAK,CAAL,C;MACHB,IAAI,YAAy,EAAhB,C;QACI,IAAI,WAAU,CAAV,IAAe,cAAa,EAAhC,C;U  
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C;iBACD,C;mBACE,C;;;C!O3EvC,E;" }

Found

in path(s):

\* /opt/cola/permits/1291668664\_1647862209.74/0/kotlin-1-3-70-tgz/package/kotlin.js.map

# 1.160 guava 31.1-jre

## 1.160.1 Available under license :

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/\*\*

\* Holder for web specializations of methods of { @code Doubles }. Intended to be empty for regular

\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-

jar/com/google/common/primitives/DoublesMethodsForWeb.java

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Found in path(s):

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/SortedMultiset.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/SortedMultisets.java

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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/RowSortedTable.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingSortedSetMultimap.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingSetMultimap.java

\*

/\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/MinMaxPriorityQueue.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/AbstractSequentialIterator.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/UnmodifiableListIterator.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingListMultimap.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/SortedMapDifference.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingImmutableCollection.java

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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/primitives/Platform.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/util/concurrent/Internal.java

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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/collect/JdkBackedImmutableMultiset.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/hash/ImmutableSupplier.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/util/concurrent/ExecutionSequencer.java

\*

/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/collect/JdkBackedImmutableSet.java

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\* This method was rewritten in Java from an intermediate step of the Murmur hash function in  
\* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the  
\* following header:

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Found in path(s):

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/base/SmallCharMatcher.java

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Found in path(s):

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/package-info.java

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\*

\* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's `java.util.HashMap`

class.

\*/

Found in path(s):

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Striped.java

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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/AbstractGraphBuilder.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/Comparators.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java  
\*  
/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/StandardMutableNetwork.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/NetworkConnections.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/StandardMutableValueGraph.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/GraphConstants.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/ElementOrder.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/RangeGwtSerializationDependencies.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/DirectedNetworkConnections.java  
\*  
/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/AbstractGraph.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/StandardMutableGraph.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/UndirectedNetworkConnections.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/ValueGraphBuilder.java  
\*  
/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/MapRetrievalCache.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/ForwardingNetwork.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/MutableValueGraph.java

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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/StandardValueGraph.java
*
/opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/AbstractValueGraph.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/ValueGraph.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/AbstractNetwork.java
*
/opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/CollectCollectors.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/MoreCollectors.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/EndpointPairIterator.java
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/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/EdgesConnecting.java

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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/math/Quantiles.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java

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/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ListenerCallQueue.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/eventbus/Subscriber.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/MoreObjects.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/eventbus/SubscriberRegistry.java

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jar/com/google/common/collect/Streams.java

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jar/com/google/common/collect/ImmutableMapEntry.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/io/MoreFiles.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/collect/MultimapBuilder.java

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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/RecursiveDeleteOption.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/Network.java

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/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/PredecessorsFunction.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/ImmutableNetwork.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/InsecureRecursiveDeleteException.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/MutableGraph.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/ImmutableGraph.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/TopKSelector.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/Graphs.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/MutableNetwork.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/SuccessorsFunction.java

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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableSortedSet.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ComparisonChain.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java  
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/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMap.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/TableCollectors.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableList.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/SingletonImmutableList.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ArrayTable.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableEnumSet.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/DiscreteDomain.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingTable.java  
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/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableClassToInstanceMap.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ComputationException.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/SingletonImmutableTable.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableAsList.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/EmptyImmutableSetMultimap.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/AbstractIndexedListIterator.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableTable.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSetMultimap.java  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/primitives/Longs.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/primitives/Chars.java  
\*  
/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Converter.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/net/PercentEscaper.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/primitives/Bytes.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/escape/UnicodeEscaper.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Stopwatch.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/MultiReader.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/escape/Escaper.java  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/CharMatcher.java  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/primitives/Ints.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/net/InetAddresses.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/internal/Finalizer.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/primitives/Shorts.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/primitives/Booleans.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ListenableFutureTask.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/thirdparty/publicsuffix/TrieParser.java  
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/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/primitives/Doubles.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/SequentialExecutor.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Joiner.java  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/math/ToDoubleRounder.java  
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/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/Java8Compatibility.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/math/BigDecimalMath.java  
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*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
*
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*/
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```

Found in path(s):

```
*/opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/util/concurrent/ServiceManagerBridge.java
```

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Found in path(s):

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/collect/FilteredMultimapValues.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/io/CharSequenceReader.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java  
\*  
/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/hash/HashingInputStream.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Utf8.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/base/Verify.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/base/VerifyException.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/reflect/TypeVisitor.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/collect/AbstractTable.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/eventbus/SubscriberExceptionContext.java  
\*  
/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/eventbus/SubscriberExceptionHandler.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/util/concurrent/Runnables.java  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/GeneralRange.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/SortedIterables.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/AbstractRangeSet.java  
\*  
/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/Count.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/SortedIterable.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingSortedMultiset.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMultiset.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableSortedMultiset.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/RangeSet.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java

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Found in path(s):

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableMap.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/BaseImmutableMultimap.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/IndexedImmutableSet.java

\*

/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableBiMap.java

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/\*\*

\* Returns an array containing all of the elements in the specified collection. This method

\* returns the elements in the order they are returned by the collection's iterator. The returned

\* array is "safe" in that no references to it are maintained by the collection. The caller is

\* thus free to modify the returned

array.

\*

\* <p>This method assumes that the collection size doesn't change while the method is running.

\*

\* <p>TODO(kevinb): support concurrently modified collections?

\*

\* @param c the collection for which to return an array of elements

\*/

Found in path(s):

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ObjectArrays.java

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Found in path(s):

```
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/ImmutableEnumMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/FilteredSetMultimap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/ForwardingNavigableMap.java
*
 /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/RangeMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/CompactLinkedHashSet.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/RegularImmutableAsList.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/EvictingQueue.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/TreeTraverser.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/CompactHashSet.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/AbstractNavigableMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/ForwardingDeque.java
*
 /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
```

```

jar/com/google/common/collect/DescendingImmutableSortedSet.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/ForwardingImmutableList.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/SortedMultisetBridge.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/CompactLinkedHashMap.java
*
/opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/FilteredKeyListMultimap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/CompactHashMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/ForwardingNavigableSet.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/ForwardingBlockingDeque.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/FilteredEntrySetMultimap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/TreeRangeMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/DescendingMultiset.java
*
/opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/FilteredEntryMultimap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/FilteredMultimap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/TransformedIterator.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/FilteredKeySetMultimap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/ForwardingImmutableMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/TransformedListIterator.java
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jar/com/google/common/graph/Traverser.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/graph/BaseGraph.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/util/concurrent/ClosingFuture.java  
\*  
/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/graph/AbstractBaseGraph.java  
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jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/package-  
info.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/collect/CollectSpliterators.java  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/Fingerprint2011.java

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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Optional.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/AbstractSortedMultiset.java

\*

/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/RegularContiguousSet.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/primitives/ParseRequest.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/cache/LoadingCache.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/net/HttpHeaders.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/FutureCallback.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/Crc32cHashFunction.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Enums.java

\*

/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/math/LongMath.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/cache/RemovalListener.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/util/concurrent/AbstractScheduledService.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/primitives/UnsignedInts.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/cache/RemovalCause.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/base/Ticker.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/hash/Hasher.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/base/PairwiseEquivalence.java  
 \*  
 /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/hash/BloomFilterStrategies.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/util/concurrent/WrappingExecutorService.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/math/DoubleMath.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/reflect/Types.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/cache/CacheBuilderSpec.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/math/IntMath.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/collect/BoundType.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/hash/AbstractNonStreamingHashFunction.java  
 \*  
 /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/Funnel.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/hash/BloomFilter.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/util/concurrent/UncheckedExecutionException.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/math/BigIntegerMath.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/collect/EmptyContiguousSet.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/cache/AbstractLoadingCache.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-

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jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/cache/CacheLoader.java
*
/opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/math/package-
info.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/cache/CacheStats.java
*
/opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/net/MediaType.java
*
/opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/cache/Cache.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/base/Present.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/base/FunctionalEquivalence.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-

```

jar/com/google/common/hash/HashCode.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/cache/ForwardingCache.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/collect/DescendingImmutableSortedMultiset.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/hash/Murmur3\_128HashFunction.java  
\*  
/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Absent.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/cache/ForwardingLoadingCache.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/collect/RegularImmutableMultiset.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/hash/Funnels.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/net/HostAndPort.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/cache/RemovalListeners.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/hash/PrimitiveSink.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/reflect/TypeParameter.java  
\*  
/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/hash/AbstractHasher.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/hash/MessageDigestHashFunction.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/math/DoubleUtils.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/util/concurrent/ForwardingExecutorService.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/hash/HashingOutputStream.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/cache/RemovalNotification.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/hash/Hashing.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/cache/package-  
info.java

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*/
/*
* This following method is a modified version of one found in
* http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
* which contained the following notice:
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*
* Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.
*/
```

Found in path(s):

```
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/util/concurrent/MoreExecutors.java
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* the License.
*/
/**
* Holder for web specializations of methods of { @code Shorts}. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/primitives/ShortsMethodsForWeb.java
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 */
```

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```
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/ParametricNullness.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/eventbus/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/reflect/ElementTypesAreNonnullByDefault.java
*
/opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/base/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/cache/ParametricNullness.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/xml/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/primitives/ParametricNullness.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/util/concurrent/ParametricNullness.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/primitives/ElementTypesAreNonnullByDefault.java
*
/opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/net/ParametricNullness.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/ParametricNullness.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/math/ParametricNullness.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
```

```

jar/com/google/common/xml/ParametricNullness.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/cache/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/escape/ParametricNullness.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/math/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/io/ParametricNullness.java
*
/opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/html/ParametricNullness.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/reflect/ParametricNullness.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/hash/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/io/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/base/ParametricNullness.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/html/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/escape/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/util/concurrent/ElementTypesAreNonnullByDefault.java
*
/opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/net/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/eventbus/ParametricNullness.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/hash/ParametricNullness.java
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- \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/UnmodifiableIterator.java
- \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/StandardRowSortedTable.java
- \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableMapKeySet.java
- \*
- /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/PeekingIterator.java
- \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/Tables.java
- \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/Serialization.java
- \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/Platform.java
- \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableBiMap.java
- \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
- \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableCollection.java
- \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
- \*
- /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableMapValues.java
- \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/Collections2.java
- \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableMap.java
- \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/CollectPreconditions.java
- \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableEntry.java
- \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/SingletonImmutableBiMap.java
- \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableMultimap.java
- \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/StandardTable.java
- \*

/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/TreeBasedTable.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/Table.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableMapEntrySet.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableListMultimap.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableMap.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableMultiset.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/Range.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/HashBasedTable.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSortedSet.java  
\*  
/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/EmptyImmutableListMultimap.java  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/NullnessCasts.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/NullnessCasts.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/NullnessCasts.java

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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/primitives/ImmutableDoubleArray.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/util/concurrent/ForwardingCondition.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/primitives/ImmutableLongArray.java  
\*

/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/util/concurrent/ForwardingLock.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/hash/AbstractHashFunction.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/primitives/ImmutableIntArray.java

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\* Outer class that exists solely to let us write { @code Partially.GwtIncompatible } instead of plain  
\* { @code GwtIncompatible }. This is more accurate for { @link Futures#catching }, which is available  
\* under GWT but with a slightly different signature.

```
*
* <p>We can't use { @code PartiallyGwtIncompatible } because then the GWT compiler
* wouldn't recognize
* it as a { @code GwtIncompatible } annotation. And for { @code Futures.catching }, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/util/concurrent/Partially.java
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```

```
*/
```

```
/**
```

```
* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular
* version.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/primitives/FloatsMethodsForWeb.java
```

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```
/*
```

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*
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ListeningExecutorService.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/primitives/package-info.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/net/package-info.java

\*

/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/SortedLists.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Strings.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/annotations/package-info.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ContiguousSet.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Atomics.java

\*

/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/annotations/Beta.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Equivalence.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Monitor.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Ascii.java

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/\*\*  
\* Holder for extra methods of { @code Objects } only in web. Intended to be empty for regular  
\* version.  
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jar/com/google/common/base/ExtraObjectsMethodsForWeb.java  
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jar/com/google/common/graph/IncidentEdgeSet.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/collect/CompactHashing.java  
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jar/com/google/common/base/PatternCompiler.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/base/JdkPattern.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/base/CommonMatcher.java  
\*

/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/base/CommonPattern.java

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jar/com/google/common/cache/ReferenceEntry.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/io/ByteProcessor.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/io/ByteArrayDataOutput.java  
\*

/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/xml/XmlEscapers.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/io/LineProcessor.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/collect/DenseImmutableTable.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/cache/LocalCache.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-

jar/com/google/common/util/concurrent/JdkFutureAdapters.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
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 jar/com/google/common/base/Splitter.java  
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 jar/com/google/common/reflect/TypeResolver.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
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 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/util/concurrent/ForwardingFluentFuture.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/SettableFuture.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractService.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/Cut.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingFuture.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/SparseImmutableTable.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java  
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/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableTable.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/annotations/GwtCompatible.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/cache/CacheBuilder.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/primitives/SignedBytes.java  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/reflect/TypeToken.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AggregateFuture.java

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/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java

\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-

jar/com/google/common/escape/CharEscaperBuilder.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/util/concurrent/Futures.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/base/CaseFormat.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/util/concurrent/TimeoutFuture.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/io/AppendableWriter.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/util/concurrent/AbstractTransformFuture.java  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/annotations/VisibleForTesting.java  
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jar/com/google/common/util/concurrent/CollectionFuture.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java  
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jar/com/google/common/util/concurrent/FakeTimeLimiter.java  
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jar/com/google/common/escape/CharEscaper.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
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/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/util/concurrent/FluentFuture.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/util/concurrent/ImmediateFuture.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/io/PatternFilenameFilter.java

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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Function.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/eventbus/Subscribe.java  
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/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/ByteStreams.java  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Supplier.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Preconditions.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Charsets.java  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/FinalizablePhantomReference.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/Flushables.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/FinalizableReference.java  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractFuture.java  
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jar/com/google/common/collect/EnumMultiset.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/base/Objects.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/util/concurrent/package-info.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/package-
info.java
*
/opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/Files.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-

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jar/com/google/common/eventbus/EventBus.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/package-info.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/CountingInputStream.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Defaults.java  
\*  
/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/primitives/Primitives.java  
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```
* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
* key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
* version.
*
* @throws UnsupportedOperationException always
* @deprecated <b>Pass a key of type {@code Comparable}
to use {@link
*   ImmutableSortedMap#of(Comparable, Object)}.</b>
*/
```

Found in path(s):

```
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/ImmutableSortedAsList.java
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ConsumingQueueIterator.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/CombinedFuture.java  
\*  
/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/LittleEndianByteArray.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AsyncCallable.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Platform.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/FarmHashFingerprint64.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/ReaderInputStream.java

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\* Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular

\* version.

\*/

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jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/reflect/Invokable.java
*
 /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/math/Stats.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/reflect/package-
info.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/CartesianList.java
*
 /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/ImmutableRangeSet.java
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/io/BaseEncoding.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
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 jar/com/google/common/hash/AbstractByteHasher.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/Closer.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
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 jar/com/google/common/math/StatsAccumulator.java  
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 jar/com/google/common/math/PairedStats.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/hash/SipHashFunction.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/util/concurrent/ServiceManager.java  
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 jar/com/google/common/hash/ChecksumHashFunction.java  
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 jar/com/google/common/util/concurrent/SmoothRateLimiter.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/escape/package-info.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/collect/FilteredKeyMultimap.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/hash/LongAddable.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
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 jar/com/google/common/reflect/TypeToInstanceMap.java  
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 jar/com/google/common/math/PairedStatsAccumulator.java  
 \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/reflect/MutableTypeToInstanceMap.java  
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 /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
 jar/com/google/common/io/CharSource.java

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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/Striped64.java  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/EnumHashBiMap.java

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/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/AbstractListMultimap.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/NaturalOrdering.java  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingMultiset.java  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/AbstractMapEntry.java  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ReverseOrdering.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ComparatorOrdering.java  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ConcurrentHashMultiset.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/AbstractMultiset.java  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingConcurrentMap.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/HashMultimap.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/Ordering.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/AbstractSortedSetMultimap.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/EnumBiMap.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/MapDifference.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingSortedMap.java  
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/opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/Multimap.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingMultimap.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableSet.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-

jar/com/google/common/collect/NullsFirstOrdering.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/collect/BiMap.java  
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jar/com/google/common/collect/AbstractIterator.java  
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jar/com/google/common/collect/AbstractMapBasedMultiset.java  
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\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
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jar/com/google/common/collect/ArrayListMultimap.java  
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jar/com/google/common/collect/ForwardingSet.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/collect/ForwardingQueue.java  
\* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-  
jar/com/google/common/collect/ForwardingIterator.java  
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Found in path(s):

- \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AtomicLongMap.java
- \* /opt/cola/permits/1292116189\_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/GwtTransient.java

# 1.161 metrics-annotation 4.2.9

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## 1.162 javaip 0.17

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Java IPv6

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## 1.163 metrics 4.2.9

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics

Build-Jdk-Spec: 11

Bundle-Description: Metrics is a Java library which gives you unparalleled insight into what your code does in production. Metrics provides a powerful toolkit of ways to measure the behavior of critical components in your production environment.

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Bundle-ManifestVersion: 2

Bundle-Name: Metrics Core

Bundle-SymbolicName: io.dropwizard.metrics.core

Bundle-Version: 4.2.9

Created-By: Apache Maven Bundle Plugin 5.1.4

Export-Package: com.codahale.metrics;uses:="org.slf4j";version="4.2.9"

Implementation-Title: Metrics Core

Implementation-Version: 4.2.9

Import-Package: org.slf4j;version="[1.6.0,2.0.0)"

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-5.1.1.202006162103

Found in path(s):

\* /opt/cola/permits/1295050861\_1651806904.61/0/metrics-core-4-2-9-jar/META-INF/MANIFEST.MF

## 1.164 error\_prone\_annotations 2.11.0

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## 1.165 joda-time 2.10.14

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## 1.166 metrics-health-checks 4.2.9

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.health

Build-Jdk-Spec: 11

Bundle-Description: An addition to Metrics which provides the ability to run application-specific health checks, allowing you to check your application's health in production.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Metrics Health Checks

Bundle-SymbolicName: io.dropwizard.metrics.healthchecks

Bundle-Version: 4.2.9

Created-By: Apache Maven Bundle Plugin 5.1.4

Export-Package: com.codahale.metrics.health;uses:="com.codahale.metrics";version="4.2.9",com.codahale.metrics.health.jvm;uses:="com.codahale.metrics.health,com.codahale.metrics.jvm";version="4.2.9",com.codahale.metrics.health.annotation;version="4.2.9"

Implementation-Title: Metrics Health Checks

Implementation-Version: 4.2.9

Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics;version="[4.2,5)",com.codahale.metrics.health,com.codahale.metrics.health.annotation,com.codahale.metrics.jvm;version="[4.2,5)";resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-5.1.1.202006162103

Found in path(s):

\* /opt/cola/permits/1303106868\_1649401354.9/0/metrics-healthchecks-4-2-9-jar/META-INF/MANIFEST.MF

# 1.167 dropwizard-auth-ldap 1.0.4

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\* /opt/cola/permits/1309839528\_1650278640.46/0/dropwizard-auth-ldap-1-0-4-sources-1-jar/META-INF/maven/com.yammer.dropwizard/dropwizard-auth-ldap/pom.xml

# 1.168 servlet-api 3.1.0

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jar/com/google/protobuf/Writer.java
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\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/JavaType.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/MapFieldLite.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/MapFieldSchemaFull.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/Message.java  
\*  
/opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/UnknownFieldSetSchema.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/RawMessageInfo.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/RpcController.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/MapFieldSchema.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/google/protobuf/wrappers.proto  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/FieldInfo.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/MessageLite.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/SchemaUtil.java  
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/opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/google/protobuf/type.proto  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/RpcCallback.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/ManifestSchemaFactory.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/google/protobuf/timestamp.proto  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/WireFormat.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/StructuralMessageInfo.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/ExtensionSchemas.java

\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/GeneratedMessage.java  
\*  
/opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/PrimitiveNonBoxingCollection.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/MutabilityOracle.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/Android.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/TextFormatEscaper.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/BufferAllocator.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/ByteOutput.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/ProtocolStringList.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/ProtoSyntax.java  
\*  
/opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/CheckReturnValue.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/Protobuf.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/google/protobuf/compiler/plugin.proto  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/BlockingRpcChannel.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/DynamicMessage.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/RpcChannel.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/Service.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/ExtensionSchemaFull.java  
\*  
/opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/GeneratedMessageInfoFactory.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/ListFieldSchema.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/UnsafeUtil.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/InlineMe.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/com/google/protobuf/ExtensionLite.java  
\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-

jar/com/google/protobuf/MapEntry.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
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 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
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 /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
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 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/LazyStringArrayList.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/NewInstanceSchemaFull.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/IterableByteBufferInputStream.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/ExtensionSchema.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/UninitializedMessageException.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/TextFormatParseInfoTree.java  
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 /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/AbstractProtobufList.java  
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 jar/com/google/protobuf/Utf8.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/RepeatedFieldBuilder.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/DiscardUnknownFieldsParser.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/LazyFieldLite.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/AbstractMessage.java  
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 jar/com/google/protobuf/DoubleArrayList.java  
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 jar/com/google/protobuf/OneofInfo.java  
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 jar/com/google/protobuf/Internal.java  
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 jar/google/protobuf/empty.proto  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/ExtensionRegistryLite.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/TextFormat.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/google/protobuf/struct.proto

\* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/RpcUtil.java  
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 jar/com/google/protobuf/UnmodifiableLazyStringList.java  
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 jar/com/google/protobuf/SingleFieldBuilderV3.java  
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 jar/com/google/protobuf/MessageLiteOrBuilder.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/UnknownFieldSchema.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/MapFieldSchemas.java  
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 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/ByteString.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/BinaryWriter.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/CompileTimeConstant.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
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 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
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 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/RopeByteString.java  
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jar/com/google/protobuf/AllocatedBuffer.java  
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 jar/com/google/protobuf/ExperimentalApi.java  
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 jar/com/google/protobuf/DescriptorMessageInfoFactory.java  
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 jar/com/google/protobuf/FloatArrayList.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
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 jar/com/google/protobuf/ExtensionRegistry.java  
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 jar/com/google/protobuf/ByteBufferWriter.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/InvalidProtocolBufferException.java  
 \*  
 /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-jar/google/protobuf/api.proto  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/MessageReflection.java  
 \* /opt/cola/permits/1455481182\_1667022562.5770235/0/protobuf-java-3-21-9-sources-  
 jar/com/google/protobuf/BooleanArrayList.java

```
* /opt/cola/permits/1455481182_1667022562.5770235/0/protobuf-java-3-21-9-sources-
jar/com/google/protobuf/MapField.java
* /opt/cola/permits/1455481182_1667022562.5770235/0/protobuf-java-3-21-9-sources-
jar/com/google/protobuf/LazyField.java
* /opt/cola/permits/1455481182_1667022562.5770235/0/protobuf-java-3-21-9-sources-
jar/com/google/protobuf/FieldType.java
* /opt/cola/permits/1455481182_1667022562.5770235/0/protobuf-java-3-21-9-sources-
jar/com/google/protobuf/GeneratedMessageLite.java
* /opt/cola/permits/1455481182_1667022562.5770235/0/protobuf-java-3-21-9-sources-
jar/com/google/protobuf/CanIgnoreReturnValue.java
*
/opt/cola/permits/1455481182_1667022562.5770235/0/protobuf-java-3-21-9-sources-
jar/google/protobuf/descriptor.proto
```

# 1.176 open-csv 5.7.1

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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/MappingStrategy.java
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/CsvToBean.java
```

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\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/HeaderColumnNameMappingStrategy.java  
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\*  
\* @author Glen Smith  
\*/

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\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/META-INF/maven/com.opencsv/opencsv/pom.xml  
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 */
```

Found in path(s):

```
*/opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/CsvToBeanFilter.java
```

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```
/**
 * A very simple CSV parser for Java released under a commercial-friendly license.
 *
 * @see <a href="http://opencsv.sourceforge.net/">opencsv.sourceforge.net</a>
 */
```

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 */
```

Found in path(s):

```
*/opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/package-info.java
```

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```
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\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/AbstractMappingStrategy.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/AbstractFieldMap.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/CsvNumber.java  
\*  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/HeaderIndex.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/ConverterNumber.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/comparator/LiteralComparator.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/RegexToBeanField.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/BeanFieldJoinIntegerIndex.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/PositionToBeanField.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/comparator/package-info.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/FieldMap.java  
\*  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/FieldMapByPosition.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/AbstractFieldMapEntry.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/FieldMapByPositionEntry.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/ComplexFieldMapEntry.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-

jar/com/opencsv/bean/BeanFieldJoinStringIndex.java

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/\*\*

\* <p>A very simple CSV parser released under a commercial-friendly license.

\* This just implements splitting a single line into fields.</p>

\*

\* <p>The purpose of the CSVParser is to take a single string and parse it into

\* its elements based on the delimiter, quote and escape characters.</p>

\*

\* <p>The CSVParser has grown organically based on user requests and does not truly match

\* any current requirements (though it can be configured to match or come close). There

\* are no plans to change this as it will break existing requirements. Consider using

\* the RFC4180Parser for less configurability but closer match to the RFC4180 requirements.</p>

\*

\* @author Glen Smith

\* @author Rainer Pruy

\*/

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\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/CSVParser.java

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\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/ResultSetHelper.java

\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/CSVReaderBuilder.java

\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/ResultSetHelperService.java

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\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/exceptions/CsvBadConverterException.java

\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/exceptions/CsvRequiredFieldEmptyException.java

\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/CsvBindByPosition.java

\*

\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/AbstractBeanField.java

\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/ConverterDate.java

\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/CsvToBeanBuilder.java

\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/util/OpencsvUtils.java  
 \* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/exceptions/CsvMalformedLineException.java  
 \* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/exceptions/CsvException.java  
 \* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/ConverterPrimitiveTypes.java  
 \* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/customconverter/package-info.java  
 \*  
 /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/CsvCustomBindByName.java  
 \* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/CsvDate.java  
 \* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/customconverter/ConvertFrenchToBoolean.java  
 \* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/exceptions/CsvDataTypeMismatchException.java  
 \* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/StatefulBeanToCsvBuilder.java  
 \* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/stream/reader/package-info.java  
 \* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/CsvBindByName.java  
 \* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/exceptions/CsvConstraintViolationException.java  
 \*  
 /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/package-info.java  
 \* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/exceptions/CsvRuntimeException.java  
 \* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/exceptions/CsvMultilineLimitBrokenException.java  
 \* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/customconverter/ConvertGermanToBoolean.java  
 \* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/beans/package-info.java  
 \* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/exceptions/package-info.java  
 \* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/exceptions/CsvBeanIntrospectionException.java  
 \* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/CsvCustomBindByPosition.java  
 \*  
 /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/StatefulBeanToCsv.java

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\*

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jar/com/opencv/ResultSetColumnNameHelperService.java
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\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/concurrent/ProcessCsvBean.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/CsvConverter.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/util/OrderedObject.java  
\*  
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\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/BeanFieldSingleValue.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/BeanFieldSplit.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/CsvBindAndJoinByPosition.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/concurrent/ProcessCsvLine.java  
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\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/concurrent/IntolerantThreadPoolExecutor.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/concurrent/AccumulateCsvResults.java  
\*  
/opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/FieldMapByNameEntry.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/AbstractCsvConverter.java  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/FieldMapByName.java  
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\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/CsvBindAndJoinByName.java  
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\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/opencsv.properties  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/convertLanguageToBoolean\_en.properties  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/opencsv\_en.properties  
\* /opt/cola/permits/1460265720\_1667461690.2601388/0/opencsv-5-7-1-sources-jar/convertLanguageToBoolean\_de.properties  
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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <[Cyan4973@github.com](mailto:Cyan4973@github.com)>

Source: <https://github.com/lz4/lz4>

Files: \*

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\*

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zip/org/bouncycastle/pqc/legacy/math/ntru/euclid/test/IntEuclideanTest.java  
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\* Magic value for proprietary OpenSSH private key.

\*\*/

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zip/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java  
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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

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zip/org/bouncycastle/asn1/x9/DomainParameters.java

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\* Poly1305 message authentication code, designed by D. J. Bernstein.

\* <p>

\* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key

\* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106

\* effective key bits) used in the authenticator.

\* <p>

\* The polynomial calculation in this implementation is adapted from the public domain <a

\* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation

\* by Andrew M (@floodyberry).

\* @see Poly1305KeyGenerator

\*/

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zip/org/bouncycastle/crypto/mac/Poly1305.java

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\* Contains the polynomial classes used in the NTRU round 3 algorithm.

\*

\* <p>

\* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC  
competition,

\* released under CC0-1.0 license.

\* </p>

\*

\* <p><a href="https://csrc.nist.gov/CSRC/media/Projects/post-quantum-cryptography/documents/round-  
3/submissions/NTRU-Round3.zip">NIST submission files</a></p>

\* <p><a href="https://github.com/jschanck/ntru/blob/master/LICENSE">License of reference  
implementation</a></p>

\*/

Found in path(s):

\* /opt/cola/permits/1487838996\_1674089109.076011/0/src-116-  
zip/org/bouncycastle/pqc/math/ntru/package-  
info.java

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// now keep space is free to use

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zip/org/bouncycastle/pqc/legacy/crypto/gmss/GMSSPrivateKeyParameters.java

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/\*\*

\* The NTRU algorithm based on the round 3 submission of the NIST post-quantum cryptography. For the old NTRU, see

\* { @link org.bouncycastle.pqc.legacy.crypto.ntru }.

\*

\* <p>

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\* </p>

\*

\* <p><a href="https://csrc.nist.gov/CSRC/media/Projects/post-quantum-cryptography/documents/round-3/submissions/NTRU-Round3.zip">NIST submission files</a></p>

\* <p><a href="https://github.com/jschanck/ntru/blob/master/LICENSE">License of reference implementation</a></p>

\*

\* @see <a href="https://csrc.nist.gov/Projects/post-quantum-cryptography/round-3-submissions">NIST round 3 PQC submissions page</a>

\* @see <a href="https://ntru.org/">NTRU website</a>

\* @see <a href="https://ntru.org/f/ntru-20190330.pdf">NTRU specification</a>

\*/

Found in path(s):

\* /opt/cola/permits/1487838996\_1674089109.076011/0/src-116-zip/org/bouncycastle/pqc/crypto/ntru/package-info.java

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\* SPHINCS-256 signer.

\* <p>

\* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used

\* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces

\* detached signatures.

\* </p>

\* <p>

\* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of section 1 in <https://eprint.iacr.org/2014/795.pdf>

\* </p>

\*/

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\* /opt/cola/permits/1487838996\_1674089109.076011/0/src-116-zip/org/bouncycastle/pqc/crypto/sphincs/SPHINCS256Signer.java

# 1.184 juel 2.6.0

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document-print.png  
edit-find.png  
go-next.png  
go-previous.png  
icon-general.png (originally preferences-desktop.png)  
icon-language.png (originally preferences-desktop-locale.png)  
icon-network.png (originally applications-internet.png)  
icon-security.png (originally dialog-warning.png)  
icon-stylesheet.png (originally applications-graphics.png)  
media-playback-pause.png  
media-playback-start.png  
process-stop.png  
redo.png (modified version of edit-redo.png)  
system-search.png  
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utilities-system-monitor.png  
view-refresh.png  
window-new.png

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```
-----
zoom-in.png viewmag+.png
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org.codehaus.groovy.jsr223.GroovyScriptEngineFactory

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\* /opt/cola/permits/1551849362\_1675381053.1014845/0/groovy-jsr223-3-0-9-sources-1-jar/org/codehaus/groovy/jsr223/GroovyCompiledScript.java

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/opt/cola/permits/1551849362\_1675381053.1014845/0/groovy-jsr223-3-0-9-sources-1-jar/org/codehaus/groovy/jsr223/GroovyScriptEngineFactory.java

## 1.196 jersey-common 2.37

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## 1.197 groovy-testng 3.0.9

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 */
```

Found in path(s):

```
* /opt/cola/permits/1551849313_1675381051.4035022/0/groovy-testng-3-0-9-sources-1-
jar/org/codehaus/groovy/testng/TestNgRunner.java
```

```
*
 /opt/cola/permits/1551849313_1675381051.4035022/0/groovy-testng-3-0-9-sources-1-
jar/org/apache/groovy/plugin/testng/TestNgRunner.java
```

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#
```

org.apache.groovy.plugin.testng.TestNgRunner

Found in path(s):

```
* /opt/cola/permits/1551849313_1675381051.4035022/0/groovy-testng-3-0-9-sources-1-jar/META-INF/services/org.apache.groovy.plugin.GroovyRunner
```

# 1.198 groovy-ant 3.0.9

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```

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```
-->
```

Found in path(s):

```
* /opt/cola/permits/1551849020_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-jar/groovy/ant/antlib.xml
```

\*  
/opt/cola/permits/1551849020\_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-jar/org/codehaus/groovy/antlib.xml  
\* /opt/cola/permits/1551849020\_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-jar/org/codehaus/groovy/ant/package.html  
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\*/

Found in path(s):

\* /opt/cola/permits/1551849020\_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-jar/org/codehaus/groovy/ant/FileIterator.java  
\*  
/opt/cola/permits/1551849020\_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-jar/org/codehaus/groovy/ant/LoggingHelper.java  
\* /opt/cola/permits/1551849020\_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-jar/org/codehaus/groovy/ant/AntProjectPropertiesDelegate.java  
\* /opt/cola/permits/1551849020\_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-jar/org/codehaus/groovy/ant/RootLoaderRef.java  
\* /opt/cola/permits/1551849020\_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-jar/org/codehaus/groovy/ant/CompileTaskSupport.java  
\* /opt/cola/permits/1551849020\_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-jar/groovy/util/FileNameFinder.groovy  
\* /opt/cola/permits/1551849020\_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-jar/org/codehaus/groovy/ant/FileSystemCompilerFacade.java  
\* /opt/cola/permits/1551849020\_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-jar/org/codehaus/groovy/ant/GenerateStubsTask.java  
\* /opt/cola/permits/1551849020\_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-jar/groovy/util/AntBuilder.java  
\*

```
/opt/cola/permits/1551849020_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-
jar/org/codehaus/groovy/ant/Groovydoc.java
* /opt/cola/permits/1551849020_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-
jar/org/codehaus/groovy/ant/UberCompileTask.java
* /opt/cola/permits/1551849020_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-
jar/org/codehaus/groovy/ant/Groovyc.java
* /opt/cola/permits/1551849020_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-
jar/org/codehaus/groovy/ant/VerifyClass.java
* /opt/cola/permits/1551849020_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-
jar/groovy/ant/FileNameFinder.groovy
* /opt/cola/permits/1551849020_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-
jar/org/codehaus/groovy/ant/Groovy.java
* /opt/cola/permits/1551849020_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-
jar/groovy/ant/AntBuilder.java
* /opt/cola/permits/1551849020_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-
jar/org/codehaus/groovy/ant/FileScanner.java
*
/opt/cola/permits/1551849020_1675381023.6764045/0/groovy-ant-3-0-9-sources-2-
jar/org/codehaus/groovy/ant/GroovycTask.java
```

# 1.199 groovy-macro 3.0.9

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```

```
#global transformation for macro support
org.codehaus.groovy.transform.MacroTransformation
org.codehaus.groovy.transform.MacroClassTransformation
```

Found

in path(s):

```
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-jar/META-
```

INF/services/org.codehaus.groovy.transform.ASTTransformation  
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```

Found in path(s):

```
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/matcher/internal/MatchingConstraintsBuilder.groovy
*
/opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/transform/MacroTransformation.java
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/runtime/Macro.java
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/transform/MacroCallTransformingVisitor.java
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/matcher/MatcherUtils.java
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/transform/MacroClassTransformation.java
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/transform/MacroMethodsCache.java
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/matcher/ASTFinder.java
*
/opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/matcher/internal/ConstraintPredicate.groovy
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/matcher/NodeComparator.java
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/transform/MacroClass.java
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
```

```

jar/org/codehaus/groovy/macro/matcher/ASTNodePredicate.java
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/runtime/MacroStub.java
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/matcher/ASTMatcher.groovy
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/methods/MacroGroovyMethods.java
*
/opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/matcher/TreeContext.java
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/runtime/MacroContext.java
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/matcher/internal/AnyTokenMatch.groovy
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/matcher/ContextualClassCodeVisitor.java
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/matcher/TreeContextAction.java
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/runtime/MacroBuilder.java
* /opt/cola/permits/1551848967_1675381009.5169692/0/groovy-macro-3-0-9-sources-1-
jar/org/codehaus/groovy/macro/matcher/MatchingConstraints.groovy

```

# 1.200 gson 2.10.1

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```

Manifest-Version: 1.0
Created-By: 11.0.16.1 (Azul Systems, Inc.)
Build-Jdk-Spec: 11
Bnd-LastModified: 1673019830620
Bundle-ContactAddress: https://github.com/google/gson
Bundle-Description: Gson JSON library
Bundle-Developers: google;organization=Google;organizationUrl="https://www.google.com"
Bundle-DocURL: https://github.com/google/gson/gson
Bundle-License: "Apache-2.0";link="https://www.apache.org/licenses/LICENSE-2.0.txt"
Bundle-ManifestVersion: 2
Bundle-Name: Gson
Bundle-RequiredExecutionEnvironment: JavaSE-1.7, JavaSE-1.8
Bundle-SCM: url="https://github.com/google/gson/gson",connection="scm:git:https://github.com/google/gson.git/gson",developer-connection="scm:git:git@github.com:google/gson.git/gson",tag="gson-parent-2.10.1"
Bundle-SymbolicName: com.google.gson
Bundle-Vendor: Google Gson Project

```

Bundle-Version: 2.10.1  
Export-Package: com.google.gson;uses:="com.google.gson.reflect,com.google.gson.stream";version="2.10.1",com.google.gson.annotations;version="2.10.1",com.google.gson.reflect;version="2.10.1",com.google.gson.stream;version="2.10.1"  
Import-Package: sun.misc;resolution:=optional,com.google.gson.annotations  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"  
Tool: Bnd-6.4.0.202211291949  
Multi-Release: true

Found in path(s):

\* /opt/cola/permits/1570533427\_1676891842.8285189/0/gson-2-10-1-jar/META-INF/MANIFEST.MF

# 1.201 apache-log4j 2.20.0

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Copyright 2005-2006 Tim Fennell

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 */
```

Found in path(s):

```
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/representer/SafeRepresenter.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/parser/Parser.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java
*
/opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/nodes/ScalarNode.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/tokens/ValueToken.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/events/StreamEndEvent.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
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* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/events/CollectionEndEvent.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/emitter/ScalarAnalysis.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
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* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
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jar/org/yaml/snakeyaml/emitter/EmitterState.java
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 jar/org/yaml/snakeyaml/composer/ComposerException.java  
 \* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-  
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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/NodeTuple.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/TrustedTagInspector.java

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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/FieldProperty.java

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/opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentLine.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/LoaderOptions.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/CommentToken.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/TrustedPrefixesTagInspector.java

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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/GenericProperty.java  
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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/Escaper.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/PercentEscaper.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java

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/**
 * A Base64 encoder/decoder.
 *
```

```
* <p>
* This class is used to encode and decode data in Base64 format as described in RFC 1521.
*
* <p>
* Project home page: <a href="http://www.source-code.biz/base64coder/java/">www.
* source-code.biz/base64coder/java</a><br>
* Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland<br>
* Multi-licensed: EPL / LGPL / GPL / AL / BSD.
*/
```

Found in path(s):

```
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java
```

## 1.203 jcodings 1.0.44

### 1.203.1 Available under license :

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Found in path(s):

```
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/unicode/FixedWidthUnicodeEncoding.java
```

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Found in path(s):

\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/specific/From\_UTF\_32\_Transcoder.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/Transcoding.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/Windows\_1257Encoding.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/ISO8859\_1Encoding.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/spi/ISO\_8859\_16.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/UTF16BEEncoding.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/AbstractEncoding.java  
 \*  
 /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/specific/From\_UTF8\_MAC\_Transcoder.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/EncodingDB.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/specific/Cp50221\_encoder\_Transcoder.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/specific/Eucjp2sjis\_Transcoder.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/exception/EncodingException.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/Ptr.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/constants/PosixBracket.java

\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/util/BytesHash.java  
\*  
/opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/EUCJPEncoding.java  
\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/SingleByteEncoding.java  
\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/GenericTranscoder.java  
\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/TranscoderDB.java  
\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/specific/From\_UTF\_32BE\_Transcoder.java  
\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/Windows\_1252Encoding.java  
\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/TranscodeTableSupport.java  
\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/CaseFoldMapEncoding.java  
\*  
/opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/EucEncoding.java  
\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/BaseSJISEncoding.java  
\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/Transcoder.java  
\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/TranscoderList.java  
\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/exception/ErrorMessage.java  
\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/ISO8859\_7Encoding.java  
\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/specific/To\_GB18030\_Transcoder.java  
\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/specific/From\_UTF\_16LE\_Transcoder.java  
\*  
/opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/specific/Iso2022jp\_kddi\_decoder\_Transcoder.java  
\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/ISOEncoding.java  
\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/UTF16LEEncoding.java  
\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/CaseFoldCodeItem.java  
\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/constants/CharacterType.java  
\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-

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jar/org/jcodings/transcode/EConvFlags.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/util/ObjHash.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/util/Hash.java
*
/opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/specific/GB18030Encoding.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/util/IntArrayHash.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/specific/ASCIIEncoding.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/specific/NonStrictUTF8Encoding.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/specific/ISO8859_6Encoding.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
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jar/org/jcodings/transcode/specific/Escape_xml_attr_quote_Transcoder.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
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* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/specific/ISO8859_4Encoding.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/specific/NonStrictEUCJPEncoding.java
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jar/org/jcodings/specific/EUCTWEncoding.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/exception/TranscoderException.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/exception/InternalException.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/specific/Windows_1253Encoding.java
*
/opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/IntHolder.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/MultiByteEncoding.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
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* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/transcode/TranscodingInstruction.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/specific/Big5UAOEncoding.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/specific/ISO8859_9Encoding.java

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\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/ISO8859\_13Encoding.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/SJISEncoding.java  
 \*  
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 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/BaseUTF8Encoding.java  
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 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/ISO8859\_10Encoding.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/specific/Iso2022jp\_kddi\_encoder\_Transcoder.java  
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 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/unicode/UnicodeEncoding.java  
 \*  
 /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/EmacsMuleEncoding.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/KOI8Encoding.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/KOI8UEncoding.java  
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\* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/specific/Cp50220\_encoder\_Transcoder.java  
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 \*  
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 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/exception/JCodingsException.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/ISO8859\_11Encoding.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/specific/Iso2022jp\_encoder\_Transcoder.java  
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 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/KOI8REncoding.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/ISO8859\_2Encoding.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/ISO8859\_14Encoding.java  
 \*  
 /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/ascii/AsciiTables.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/GBKEncoding.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/exception/CharacterPropertyException.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/BaseBIG5Encoding.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/EConvResult.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/USASCIIEncoding.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/specific/ISO8859\_15Encoding.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/specific/Cp50220\_decoder\_Transcoder.java  
 \*  
 /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/specific/Cp50221\_decoder\_Transcoder.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/ObjPtr.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/specific/From\_UTF\_16\_Transcoder.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/specific/To\_UTF\_32\_Transcoder.java  
 \* /opt/cola/permits/1606863367\_1680067730.5782158/0/jcodings-1-0-44-sources-1-jar/org/jcodings/transcode/specific/Stateless\_iso2022jp\_to\_eucjp\_Transcoder.java

```

* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/CodeRange.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/specific/Windows_1251Encoding.java
*
/opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/specific/UTF32BEEncoding.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/util/CaseInsensitiveBytesHash.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/transcode/specific/To_UTF_32LE_Transcoder.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/util/IntHash.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/specific/Windows_1250Encoding.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/transcode/specific/To_UTF_32BE_Transcoder.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/transcode/AsciiCompatibility.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/transcode/Buffer.java
*
/opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/specific/CP949Encoding.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/specific/UTF32LEEncoding.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/Config.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/ApplyAllCaseFoldFunction.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/transcode/specific/Iso2022jp_decoder_Transcoder.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/specific/ISO8859_3Encoding.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/CanBeTrailTableEncoding.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/util/ArrayReader.java
*
/opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/specific/ISO8859_5Encoding.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/specific/GB2312Encoding.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/specific/Big5HKSCSEncoding.java
* /opt/cola/permits/1606863367_1680067730.5782158/0/jcodings-1-0-44-sources-1-
jar/org/jcodings/specific/BaseEUCJPEncoding.java

```

# 1.204 joni 2.1.29

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\*/

Found in path(s):

\* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/Option.java  
\* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/Syntax.java  
\* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/Config.java  
\* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/Token.java  
\* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/constants/internal/StringType.java  
\* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/Region.java  
\* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/ast/QuantifierNode.java  
\* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/exception/ValueException.java  
\*  
/opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/ArrayCompiler.java  
\* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/ast/CTypeNode.java  
\* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/UnsetAddrList.java  
\* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/ByteCodePrinter.java  
\* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/ast/Node.java  
\* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/exception/SyntaxException.java  
\* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/constants/internal/AnchorType.java

\* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/Parser.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/OptEnvironment.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/Matcher.java  
 \*  
 /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/StackMachine.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/CodeRangeBuffer.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/ast/ListNode.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/exception/JOniException.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/OptAnchorInfo.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/constants/internal/EncloseType.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/constants/internal/StackPopLevel.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/constants/internal/OPSize.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/ScannerSupport.java  
 \*  
 /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/WarnCallback.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/ast/AnchorNode.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/ApplyCaseFoldArg.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/ast/StateNode.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/constants/internal/StackType.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/MinMaxLen.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/constants/internal/TargetInfo.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/Analyser.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/ApplyCaseFold.java  
 \*  
 /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/ScanEnvironment.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/constants/internal/Traverse.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/ast/AnyCharNode.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/OptExactInfo.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/constants/internal/NodeStatus.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/exception/InternalException.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/NativeMachine.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/ast/BackRefNode.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/ast/CallNode.java  
 \*  
 /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/exception/ErrorMessage.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/ByteCodeMachine.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/Regex.java  
 \* /opt/cola/permits/1606864788\_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/exception/ErrorMessage.java

```

jar/org/joni/constants/internal/TokenType.java
* /opt/cola/permits/1606864788_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/Compiler.java
* /opt/cola/permits/1606864788_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/BitSet.java
* /opt/cola/permits/1606864788_1679439951.658974/0/joni-2-1-29-sources-1-
jar/org/joni/constants/internal/Arguments.java
* /opt/cola/permits/1606864788_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/OptMapInfo.java
* /opt/cola/permits/1606864788_1679439951.658974/0/joni-2-1-29-sources-1-
jar/org/joni/constants/SyntaxProperties.java
*
/opt/cola/permits/1606864788_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/StackEntry.java
* /opt/cola/permits/1606864788_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/CaptureTreeNode.java
* /opt/cola/permits/1606864788_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/Search.java
* /opt/cola/permits/1606864788_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/BitStatus.java
* /opt/cola/permits/1606864788_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/ast/CClassNode.java
* /opt/cola/permits/1606864788_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/ast/StringNode.java
* /opt/cola/permits/1606864788_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/MatcherFactory.java
* /opt/cola/permits/1606864788_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/ast/EncloseNode.java
* /opt/cola/permits/1606864788_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/constants/MetaChar.java
* /opt/cola/permits/1606864788_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/Lexer.java
*
/opt/cola/permits/1606864788_1679439951.658974/0/joni-2-1-29-sources-1-
jar/org/joni/constants/internal/OPCode.java
* /opt/cola/permits/1606864788_1679439951.658974/0/joni-2-1-29-sources-1-
jar/org/joni/constants/internal/NodeType.java
* /opt/cola/permits/1606864788_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/NodeOptInfo.java
* /opt/cola/permits/1606864788_1679439951.658974/0/joni-2-1-29-sources-1-jar/org/joni/NameEntry.java

```

# 1.205 jinjava 2.6.0

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Found in path(s):

\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/lib/filter/AbstractFilter.java

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\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/JinjavaConfig.java

\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/lib/tag/IncludeTag.java

\*

/opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/lib/tag/IfTag.java

\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/lib/tag/CycleTag.java

\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/util/HelperStringTokenizer.java

\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/tree/ExpressionNode.java

\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/tree/TextNode.java

\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/tree/Node.java

\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/tree/TreeParser.java

\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/interpret/Context.java

\*

/opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/lib/filter/AbsFilter.java

\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-

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jar/com/hubspot/jinjava/interpret/JinjavaInterpreter.java
* /opt/cola/permits/1613098423_1679654368.0746422/0/jinjava-2-6-0-sources-2-
jar/com/hubspot/jinjava/util/Variable.java
* /opt/cola/permits/1613098423_1679654368.0746422/0/jinjava-2-6-0-sources-2-
jar/com/hubspot/jinjava/lib/tag/IfchangedTag.java
* /opt/cola/permits/1613098423_1679654368.0746422/0/jinjava-2-6-0-sources-2-
jar/com/hubspot/jinjava/lib/tag/ExtendsTag.java
* /opt/cola/permits/1613098423_1679654368.0746422/0/jinjava-2-6-0-sources-2-
jar/com/hubspot/jinjava/tree/TagNode.java
* /opt/cola/permits/1613098423_1679654368.0746422/0/jinjava-2-6-0-sources-2-
jar/com/hubspot/jinjava/lib/tag/BlockTag.java
* /opt/cola/permits/1613098423_1679654368.0746422/0/jinjava-2-6-0-sources-2-
jar/com/hubspot/jinjava/lib/tag/Tag.java
*
/opt/cola/permits/1613098423_1679654368.0746422/0/jinjava-2-6-0-sources-2-
jar/com/hubspot/jinjava/util/ObjectIterator.java
* /opt/cola/permits/1613098423_1679654368.0746422/0/jinjava-2-6-0-sources-2-
jar/com/hubspot/jinjava/tree/RootNode.java
* /opt/cola/permits/1613098423_1679654368.0746422/0/jinjava-2-6-0-sources-2-
jar/com/hubspot/jinjava/lib/tag/ForTag.java
* /opt/cola/permits/1613098423_1679654368.0746422/0/jinjava-2-6-0-sources-2-
jar/com/hubspot/jinjava/lib/filter/FilterLibrary.java
* /opt/cola/permits/1613098423_1679654368.0746422/0/jinjava-2-6-0-sources-2-
jar/com/hubspot/jinjava/Jinjava.java
* /opt/cola/permits/1613098423_1679654368.0746422/0/jinjava-2-6-0-sources-2-
jar/com/hubspot/jinjava/lib/tag/SetTag.java
* /opt/cola/permits/1613098423_1679654368.0746422/0/jinjava-2-6-0-sources-2-
jar/com/hubspot/jinjava/lib/filter/CutFilter.java
* /opt/cola/permits/1613098423_1679654368.0746422/0/jinjava-2-6-0-sources-2-
jar/com/hubspot/jinjava/lib/filter/EscapeFilter.java
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\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/lib/filter/EscapeJinjavaFilter.java

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\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/lib/filter/Filter.java

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\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/lib/filter/UpperFilter.java

\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-

jar/com/hubspot/jinjava/lib/filter/LowerFilter.java  
\*  
/opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/util/Logging.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/lib/filter/DivisibleFilter.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/lib/filter/Md5Filter.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/loader/FileLocator.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/lib/filter/AddFilter.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/lib/filter/DivideFilter.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/tree/parse/NoteToken.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/tree/parse/TextToken.java  
\*  
/opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/lib/tag/TagLibrary.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/lib/SimpleLibrary.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/lib/Importable.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/util/ForLoop.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/tree/parse/TokenScannerSymbols.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/lib/filter/DefaultFilter.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/lib/filter/AdvancedFilter.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/lib/filter/MultiplyFilter.java  
\*  
/opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/loader/ResourceLocator.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/tree/parse/Token.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/lib/tag/ElseTag.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/lib/filter/RandomFilter.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/lib/filter/LengthFilter.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-  
jar/com/hubspot/jinjava/tree/parse/TagToken.java

\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/lib/filter/TruncateFilter.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/util/ObjectTruthValue.java

\*  
/opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/interpret/InterpretException.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/lib/filter/DatetimeFilter.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/tree/parse/ExpressionToken.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/lib/filter/ReverseFilter.java

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\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/tree/parse/TokenScanner.java

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\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/lib/filter/BoolFilter.java  
\* /opt/cola/permits/1613098423\_1679654368.0746422/0/jinjava-2-6-0-sources-2-jar/com/hubspot/jinjava/interpret/DynamicVariableResolver.java

# 1.206 tap4j 4.1

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\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/util/package-info.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/util/StatusValues.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/producer/package-info.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/model/TestSet.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/representer/Tap13Representer.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/model/TestResult.java

\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/model/TapResult.java  
\*

/opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/parser/Parser.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/representer/RepresenterException.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/parser/package-info.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/model/BailOut.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/util/DirectiveValues.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/consumer/TapConsumerException.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/consumer/TapConsumerFactory.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/model/AbstractTapElementDiagnostic.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/model/TapElement.java  
\*

/opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/model/SkipPlan.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/model/Footer.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/producer/TapProducer.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/model/Comment.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/model/Header.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/model/package-info.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/producer/Producer.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/representer/TapJUnitRepresenter.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/consumer/package-info.java  
\*

/opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/parser/Tap13Parser.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/parser/Memento.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/representer/DumperOptions.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/model/Plan.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/parser/ParserException.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/producer/ProducerException.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/representer/package-info.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/representer/Representer.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/util/TapVersionValues.java  
\*

/opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/model/Text.java  
\* /opt/cola/permits/1613098593\_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/producer/TapProducerFactory.java

```
* /opt/cola/permits/1613098593_1679654363.3271081/0/tap4j-4-1-sources-2-jar/org/tap4j/model/Directive.java
* /opt/cola/permits/1613098593_1679654363.3271081/0/tap4j-4-1-sources-2-
jar/org/tap4j/consumer/TapConsumerImpl.java
* /opt/cola/permits/1613098593_1679654363.3271081/0/tap4j-4-1-sources-2-
jar/org/tap4j/consumer/TapConsumer.java
```

## 1.207 auto-service-annotations 1.0-rc6

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```
* /opt/cola/permits/1613098325_1680160344.6102023/0/auto-service-annotations-1-0-rc6-sources-1-
jar/com/google/auto/service/AutoService.java
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## 1.208 auto-service 1.0-rc6

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\* /opt/cola/permits/1613098386\_1679654443.4759493/0/auto-service-1-0-rc6-sources-1-jar/com/google/auto/service/processor/package-info.java

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\* /opt/cola/permits/1613098386\_1679654443.4759493/0/auto-service-1-0-rc6-sources-1-jar/com/google/auto/service/processor/AutoServiceProcessor.java

\* /opt/cola/permits/1613098386\_1679654443.4759493/0/auto-service-1-0-rc6-sources-1-jar/com/google/auto/service/processor/ServicesFiles.java

## 1.209 javaparser-core 3.23.0

## 1.210 log4j2-ecs-layout 1.2.0

### 1.210.1 Available under license :

ecs-logging-java

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# 1.211 ecs-logging-core 1.2.0

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- co.elastic.logging.JsonUtils

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.  
It was originally written by Tatu  
Saloranta (tatu.saloranta@iki.fi), and has  
been in development since 2007.  
It is currently developed by a community of developers, as well as supported  
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```

Found in path(s):

```
* /opt/cola/permits/1618783067_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-
jar/io/swagger/v3/oas/annotations/media/DiscriminatorMapping.java
* /opt/cola/permits/1618783067_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-
jar/io/swagger/v3/oas/annotations/Operation.java
* /opt/cola/permits/1618783067_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-
jar/io/swagger/v3/oas/annotations/callbacks/Callbacks.java
*
/opt/cola/permits/1618783067_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-
jar/io/swagger/v3/oas/annotations/media/Schema.java
* /opt/cola/permits/1618783067_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-
jar/io/swagger/v3/oas/annotations/links/LinkParameter.java
```

\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/headers/Header.java  
\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/OpenAPIDefinition.java  
\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/servers/Servers.java  
\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/responses/ApiResponseResponses.java  
\*  
/opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/security/OAuthScope.java  
\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/Parameter.java  
\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/info/License.java  
\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/parameters/RequestBody.java  
\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/servers/ServerVariable.java  
\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/tags/Tags.java  
\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/links/Link.java  
\*  
/opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/security/OAuthFlows.java  
\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/Parameters.java  
\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/security/SecurityRequirement.java  
\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/media/ExampleObject.java  
\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/security/SecuritySchemes.java  
\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/ExternalDocumentation.java  
\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/security/SecurityScheme.java  
\*  
/opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/info/Contact.java  
\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/tags/Tag.java  
\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/media/Encoding.java  
\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-jar/io/swagger/v3/oas/annotations/media/Content.java  
\* /opt/cola/permits/1618783067\_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-

```
jar/io/swagger/v3/oas/annotations/extensions/Extensions.java
* /opt/cola/permits/1618783067_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-
jar/io/swagger/v3/oas/annotations/info/Info.java
* /opt/cola/permits/1618783067_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-
jar/io/swagger/v3/oas/annotations/servers/Server.java
*
/opt/cola/permits/1618783067_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-
jar/io/swagger/v3/oas/annotations/security/OAuthFlow.java
* /opt/cola/permits/1618783067_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-
jar/io/swagger/v3/oas/annotations/security/SecurityRequirements.java
* /opt/cola/permits/1618783067_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-
jar/io/swagger/v3/oas/annotations/Hidden.java
* /opt/cola/permits/1618783067_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-
jar/io/swagger/v3/oas/annotations/callbacks/Callback.java
* /opt/cola/permits/1618783067_1681509181.9620898/0/swagger-annotations-2-0-7-sources-1-
jar/io/swagger/v3/oas/annotations/responses/ApiResponse.java
```

## 1.213 dropwizard-validation 2.0.28

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```

Found in path(s):

```
* /opt/cola/permits/1635342750_1681276708.9974823/0/dropwizard-validation-2-0-28-sources-1-
jar/io/dropwizard/validation/InterpolationHelper.java
```

## 1.214 jest-common 0.1.1

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\* /opt/cola/permits/1638411436\_1681425252.2254884/0/grpc-stub-1-24-0-sources-1-jar/io/grpc/stub/annotations/RpcMethod.java

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\* /opt/cola/permits/1638411436\_1681425252.2254884/0/grpc-stub-1-24-0-sources-1-jar/io/grpc/stub/MetadataUtils.java

\* /opt/cola/permits/1638411436\_1681425252.2254884/0/grpc-stub-1-24-0-sources-1-jar/io/grpc/stub/ClientCalls.java

\* /opt/cola/permits/1638411436\_1681425252.2254884/0/grpc-stub-1-24-0-sources-1-jar/io/grpc/stub/ServerCalls.java

\*

/opt/cola/permits/1638411436\_1681425252.2254884/0/grpc-stub-1-24-0-sources-1-jar/io/grpc/stub/AbstractStub.java

\* /opt/cola/permits/1638411436\_1681425252.2254884/0/grpc-stub-1-24-0-sources-1-jar/io/grpc/stub/StreamObserver.java

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```
*/opt/cola/permits/1638411436_1681425252.2254884/0/grpc-stub-1-24-0-sources-1-
jar/io/grpc/stub/ClientResponseObserver.java
*/opt/cola/permits/1638411436_1681425252.2254884/0/grpc-stub-1-24-0-sources-1-
jar/io/grpc/stub/ClientCallStreamObserver.java
*/opt/cola/permits/1638411436_1681425252.2254884/0/grpc-stub-1-24-0-sources-1-
jar/io/grpc/stub/CallStreamObserver.java
*
```

```
*/opt/cola/permits/1638411436_1681425252.2254884/0/grpc-stub-1-24-0-sources-1-
jar/io/grpc/stub/ServerCallStreamObserver.java
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```

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers.

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# 1.218 jackson-annotations 2.15.0

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jar/javax/servlet/http/LocalStrings.properties  
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-  
jar/javax/servlet/http/LocalStrings_ja.properties  
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-  
jar/javax/servlet/LocalStrings.properties  
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-  
jar/javax/servlet/http/LocalStrings_fr.properties  
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-  
jar/javax/servlet/LocalStrings_ja.properties
```

\*

```
/opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-  
jar/javax/servlet/LocalStrings_fr.properties  
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-  
jar/javax/servlet/http/LocalStrings_es.properties
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/\*\*

\* Constructor to establish non-empty getRolesAllowed and/or <tt>TransportGuarantee.CONFIDENTIAL</tt>.

\*

\* @param guarantee <tt>TransportGuarantee.NONE</tt> or <tt>TransportGuarantee.CONFIDENTIAL</tt>

\* @param roleNames the names of the roles that are to be allowed access

\*/

Found in path(s):

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/HttpConstraintElement.java

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\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletRegistration.java

\*

/opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletSecurityElement.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/annotation/HttpMethodConstraint.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/annotation/ServletSecurity.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/descriptor/JspPropertyGroupDescriptor.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/annotation/WebFilter.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/AsyncContext.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/FilterRegistration.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/PushBuilder.java

\*

/opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/MultipartConfigElement.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletContainerInitializer.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/HttpMethodConstraintElement.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/annotation/WebInitParam.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ReadListener.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/Registration.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/descriptor/JspConfigDescriptor.java

\*

/opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/DispatcherType.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/AsyncListener.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/annotation/MultipartConfig.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/HttpSessionIdListener.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/HttpUpgradeHandler.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/WebConnection.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/SessionTrackingMode.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/annotation/HandlesTypes.java  
\*  
/opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/annotation/HttpConstraint.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/annotation/WebServlet.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/WriteListener.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/descriptor/TaglibDescriptor.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/annotation/WebListener.java  
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 * /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/GenericFilter.java
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 /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/AsyncEvent.java
 * /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/http/MappingMatch.java
 * /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/http/Part.java
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\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletRequestAttributeEvent.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/HttpSessionListener.java

\*  
/opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/RequestDispatcher.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletRequestWrapper.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/FilterChain.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletException.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletContextAttributeListener.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/HttpSessionActivationListener.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/HttpSessionAttributeListener.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/Servlet.java  
\*  
/opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletRequestListener.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/HttpServletResponse.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletContextListener.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletRequestAttributeListener.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/HttpServletRequest.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/HttpServletRequestWrapper.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/Filter.java  
\*  
/opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletOutputStream.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/HttpServletRequestWrapper.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/HttpUtils.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletContextAttributeEvent.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/HttpSessionContext.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/FilterConfig.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletInputStream.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-

jar/javax/servlet/UnavailableException.java  
\*  
/opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-  
jar/javax/servlet/http/HttpSessionEvent.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-  
jar/javax/servlet/ServletResponse.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-  
jar/javax/servlet/http/HttpSessionBindingListener.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-  
jar/javax/servlet/http/HttpServlet.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-  
jar/javax/servlet/SingleThreadModel.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-  
jar/javax/servlet/ServletContextEvent.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-  
jar/javax/servlet/ServletContext.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-  
jar/javax/servlet/http/Cookie.java  
\*  
/opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-  
jar/javax/servlet/http/HttpSessionBindingEvent.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-  
jar/javax/servlet/ServletResponseWrapper.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-  
jar/javax/servlet/ServletRequestEvent.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-  
jar/javax/servlet/http/HttpSession.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-  
jar/javax/servlet/ServletConfig.java

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-->

Found in path(s):

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/annotation/package.html

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```
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 *
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 * version 2 with the GNU Classpath Exception, which is available at
 * https://www.gnu.org/software/classpath/license.html.
 *
 * SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 */
```

Found in path(s):

```
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/http/HttpServletMapping.java
```

## 1.244 jackson-dataformat-smile 2.15.0

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```
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# Jackson JSON processor
```

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers.

```
## Copyright
```

```
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```
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```

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# 1.245 aop-alliance 2.6.1

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```
{\rtf1\ansi\ansicpg1252\cocoartf1671\cocoasubrtf600
{\fonttbl{\f0\froman\fcharset0 Times-Roman;\f1\fmmodern\fcharset0 Courier;}
{\colortbl;\red255\green255\blue255;\red0\green0\blue0;}
{\*\expandedcolortbl;;\cssrgb\c0\c0\c0;}
\paperw11900\paperh16840\margl1440\margr1440\vieww10800\viewh8400\viewkind0
\defstab720
\pard\pardefstab720\sl280\partightenfactor0

\f0\fs24 \cf2 \expnd0\expndtw0\kerning0
\outl0\strokewidth0 \strokec2 This XML file does not appear to have any style information associated with it. The
document tree is shown below.\
\pard\pardefstab720\sl300\partightenfactor0

\f1\fs26 \cf2 <!--\
\
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\
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http://www.eclipse.org/legal/epl-2.0.\
\
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version 2 with the GNU Classpath Exception, which is available at\
http://www.gnu.org/software/classpath/license.html.\
\
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0\
\
-->\
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-
```

```

v4_0_0.xsd">\
<modelVersion>4.0.0</modelVersion>\
<parent>\
<groupId>org.glassfish.hk2</groupId>\
<artifactId>external</artifactId>\
<version>2.6.1</version>\
</parent>\
<groupId>org.glassfish.hk2.external</groupId>\
<artifactId>aopalliance-repackaged</artifactId>\
<name>\
aopalliance version ${aopalliance.version} repackaged as a module\
</name>\
<build>\
<plugins>\
<plugin>\
<groupId>org.apache.maven.plugins</groupId>\
<artifactId>maven-dependency-plugin</artifactId>\
<executions>\
<execution>\
<id>step1-unpack-sources</id>\
<phase>process-sources</phase>\
<goals>\
<goal>unpack</goal>\
</goals>\
<configuration>\
<artifactItems>\
<artifactItem>\
<groupId>aopalliance</groupId>\
<artifactId>aopalliance</artifactId>\
<version>${aopalliance.version}</version>\
<classifier>sources</classifier>\
<overwrite>>false</overwrite>\
<outputDirectory>${project.build.directory}/alternateLocation</outputDirectory>\
</artifactItem>\
</artifactItems>\
</configuration>\
</execution>\
</executions>\
</plugin>\
<plugin>\
<groupId>org.codehaus.mojo</groupId>\
<artifactId>build-helper-maven-plugin</artifactId>\
<executions>\
<execution>\
<id>step2-add-sources</id>\
<phase>process-sources</phase>\
<goals>\
<goal>add-source</goal>\

```

```

</goals>
<configuration>
<sources>
<source>${project.build.directory}/alternateLocation</source>
</sources>
</configuration>
</execution>
</executions>
</plugin>
<plugin>
<groupId>org.apache.felix</groupId>
<artifactId>maven-bundle-plugin</artifactId>
<configuration>
<instructions>
<Embed-Dependency>'a0*;scope=compile;inline=true'a0</Embed-Dependency>
<!--

```

We set a mandatory attribute for these packages, because we don't want them to be visible to just anyone. An importer must specify the mandatory attribute for it to be able to import. See section #3.6.5 of OSGi R4 spec.

Why is this required?

See [https://glassfish.dev.java.net/issues/show\\_bug.cgi?id=5385](https://glassfish.dev.java.net/issues/show_bug.cgi?id=5385)

By doing this, we allow user have any version of apache-commons lib in their application class loader hierarchy. They don't even have to set delegation=false in sun-web.xml! This is the true advantage of using OSGi.

Sahoo.

```

    \
-->
<Export-Package>org.aopalliance.*;version=${aopalliance.version}</Export-Package>
<Private-Package>!*</Private-Package>
</instructions>
</configuration>
<executions>
<execution>
<id>osgi-manifest</id>
<phase>process-classes</phase>
<goals>
<goal>manifest</goal>
</goals>
</execution>
</executions>
</plugin>
</plugins>
</build>
<dependencies>
<dependency>
<groupId>aopalliance</groupId>

```

```
<artifactId>aopalliance</artifactId>\
<version>${aopalliance.version}</version>\
<optional>true</optional>\
</dependency>\
</dependencies>\
</project>\
}
```

Found in path(s):

\* /opt/cola/permits/1688041658\_1684928894.4895442/0/aopalliance-2-6-1-zip/aopalliance-2.6.1.rtf

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```
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/OnDealloc.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/LoopTranslation.java
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```
/opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/RetainedLocalRef.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/ReflectionSupport.java
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jar/com/google/j2objc/annotations/Property.java
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jar/com/google/j2objc/annotations/WeakOuter.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/RetainedWith.java
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```

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```
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jar/com/google/j2objc/annotations/Weak.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/AutoreleasePool.java
```

## 1.247 guava 32.0.0-jre

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# 1.248 mysql-connector-j 8.0.33

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Last updated: February 2023

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Upstream-Contact: MySQL Release Engineering <mysql-build@oss.oracle.com>

Source: <http://dev.mysql.com/>

Files: \*

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## 1.249 liquibase-core 4.22.0

## 1.250 snappy 0.3

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Found in path(s):

- \* /opt/cola/permits/1722433605\_1686901730.8528392/0/snappy-0-3-sources-3-jar/org/iq80/snappy/Memory.java
- \* /opt/cola/permits/1722433605\_1686901730.8528392/0/snappy-0-3-sources-3-jar/org/iq80/snappy/SnappyCompressor.java
- \*
- /opt/cola/permits/1722433605\_1686901730.8528392/0/snappy-0-3-sources-3-jar/org/iq80/snappy/Main.java
- \* /opt/cola/permits/1722433605\_1686901730.8528392/0/snappy-0-3-sources-3-jar/org/iq80/snappy/UnsafeMemory.java
- \* /opt/cola/permits/1722433605\_1686901730.8528392/0/snappy-0-3-sources-3-jar/org/iq80/snappy/SnappyDecompressor.java
- \* /opt/cola/permits/1722433605\_1686901730.8528392/0/snappy-0-3-sources-3-jar/org/iq80/snappy/SnappyInternalUtils.java
- \* /opt/cola/permits/1722433605\_1686901730.8528392/0/snappy-0-3-sources-3-jar/org/iq80/snappy/CorruptionException.java
- \* /opt/cola/permits/1722433605\_1686901730.8528392/0/snappy-0-3-sources-3-jar/org/iq80/snappy/Snappy.java
- \* /opt/cola/permits/1722433605\_1686901730.8528392/0/snappy-0-3-sources-3-jar/org/iq80/snappy/SlowMemory.java
- \* /opt/cola/permits/1722433605\_1686901730.8528392/0/snappy-0-3-sources-3-jar/org/iq80/snappy/SnappyInputStream.java
- \* /opt/cola/permits/1722433605\_1686901730.8528392/0/snappy-0-3-sources-3-jar/org/iq80/snappy/Crc32C.java
- \*
- /opt/cola/permits/1722433605\_1686901730.8528392/0/snappy-0-3-sources-3-jar/org/iq80/snappy/SnappyOutputStream.java
- \* /opt/cola/permits/1722433605\_1686901730.8528392/0/snappy-0-3-sources-3-jar/org/iq80/snappy/BufferRecycler.java
- \* /opt/cola/permits/1722433605\_1686901730.8528392/0/snappy-0-3-sources-3-jar/org/iq80/snappy/HadoopSnappyCodec.java

## 1.251 lucene 9.6.0

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The snowball stemmers in  
analysis/common/src/java/net/sf/snowball  
were developed by Martin Porter and Richard Boulton.

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<https://snowballstem.org/>

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analysis/common/src/org/apache/lucene/analysis/en  
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)  
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The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default  
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:  
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt  
See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The  
German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers  
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and  
Ljiljana Dolamic. These files reside in:  
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The  
Stempel analyzer (stempel) includes BSD-licensed software developed  
by the Egothor project <http://egothor.sf.net/>, created by Leo Galambos, Martin Kvapil,  
and Edmond Nolan.

The Polish analyzer (stempel) comes with a default  
stopword list that is BSD-licensed created by the Carrot2 project. The file resides  
in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.  
See <https://github.com/carrot2/carrot2>.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode\_\*.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database. See <http://unicode.org/copyright.html> for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (<https://github.com/morfologik/morfologik-stemming>) and uses data from the BSD-licensed dictionary of Polish (SGJP, <http://sgjp.pl/morfeusz/>).

Servlet-api.jar and javax.servlet-\*.jar are under the CDDL license, the original source code for this can be found at <http://www.eclipse.org/jetty/downloads.php>

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### Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

<http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz>

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<http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz>

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\* /opt/cola/permits/1779890159\_1693238544.8866055/0/okio-2-5-0-sources-6-jar/commonMain/okio/ByteString.kt

\* /opt/cola/permits/1779890159\_1693238544.8866055/0/okio-2-5-0-sources-6-jar/commonMain/okio/internal/Utf8.kt

\* /opt/cola/permits/1779890159\_1693238544.8866055/0/okio-2-5-0-sources-6-jar/jvmMain/okio/-Platform.kt

\*

/opt/cola/permits/1779890159\_1693238544.8866055/0/okio-2-5-0-sources-6-

jar/commonMain/okio/internal/ByteString.kt

\* /opt/cola/permits/1779890159\_1693238544.8866055/0/okio-2-5-0-sources-6-jar/commonMain/okio/-Platform.kt

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- \* /opt/cola/permits/1779890159\_1693238544.8866055/0/okio-2-5-0-sources-6-jar/commonMain/okio/PeekSource.kt
- \* /opt/cola/permits/1779890159\_1693238544.8866055/0/okio-2-5-0-sources-6-jar/jvmMain/okio/DeprecatedUpgrade.kt
- \* /opt/cola/permits/1779890159\_1693238544.8866055/0/okio-2-5-0-sources-6-jar/jvmMain/okio/DeprecatedOkio.kt
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- \* /opt/cola/permits/1779890159\_1693238544.8866055/0/okio-2-5-0-sources-6-jar/jvmMain/okio/DeprecatedUtf8.kt

# 1.254 quartz 2.4.0-rc1

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## 1.255 java™-native-access 5

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The  
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2000-05-05

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The primary ANTLR guy:

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qOPQUXpopOopMMPqnPnXXQPNOPNRnqQNQqStwVxuQSTtVW  
UrwSUSSTVwxWSXNmrrpnmqmUUnpsvpntsmmmmmUUnpsvp  
ntsmmmmmUUFmbkWJlroZbW4bsbilmjkbqUUnmmmm

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Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package name from 'com.google.json' to 'clover.com.google.json'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

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File: Core.js

Description:

Provides common utility functions and the Class object used internally by the library.

Also provides the <TreeUtil> object for manipulating JSON tree structures

Some of the Basic utility functions and the Class system are based in the MooTools Framework <<http://mootools.net>>. Copyright (c) 2006-2009 Valerio Proietti, <<http://mad4milk.net/>>. MIT license <<http://mootools.net/license.txt>>.

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Maven Ant Tasks

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MySQL 8.0

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cURL (libcurl)

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  saslint.h auxprop.c canonusr.c checkpw.c client.c common.c config.c  
  external.c saslutil.c server.c seterror.c dlopen.c

./plugins

  scram.c gssapi.c

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/\* Function names changed to avoid namespace collisions: Rob Siemborski \*/

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dtoa.c

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Facebook Fast Checksum Patch

Facebook Fast Checksum Patch

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Also included:

crc32.c -- compute the CRC-32 of a buf stream

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Google Controlling Master Thread I/O Rate Patch

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Google Perftools (TCMalloc utility)

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Google SMP Patch

Google SMP patch

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- lib/gssapi/mechglue/gssd\_pname\_to\_uid.c
- lib/gssapi/mechglue/mglueP.h
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- include/iprop\_hdr.h
- kadmin/server/ipropd\_svc.c
- lib/kdb/iprop.x

lib/kdb/kdb\_convert.c  
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#
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# Primary weight range: 0200..3ACA
# (14539)
# Secondary weight range: 0020..0192 (371)
# Variant secondaries: 0159..015E (6)
# Digit secondaries: 015F..0192 (52)
```

# Tertiary weight range: 0002..001F (30)

#

@version 5.2.0

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech_gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech_spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
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lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h

lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprof\_hdr.h  
kadmin/server/iprofd\_svc.c  
lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c

lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c

lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprof\_hdr.h  
kadmin/server/iprofd\_svc.c  
lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including

the following new or changed files:

include/iproper\_hdr.h  
kadmin/server/iproperd\_svc.c  
lib/kdb/iproper.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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[gSOAP user guide](<https://www.genivia.com/doc/guide/html/index.html>) - the full documentation

[List of modules](<https://www.genivia.com/doc/guide/html/modules.html>) - flags, debugging, callbacks, and more

[Context with the engine state](<https://www.genivia.com/doc/guide/html/structsoap.html>) - struct soap members

[Context API]([https://www.genivia.com/doc/guide/html/group\\_\\_group\\_\\_context.html](https://www.genivia.com/doc/guide/html/group__group__context.html)) - functions to set the soap engine state

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### Technical articles

[Schema Slicing Methods to Reduce Development Costs of WSDL-Based Web Services](<https://www.genivia.com/slicing.html>)

- published in the IEEE International Conference on Web Services 2018

[How to Use Amazon Simple Storage Service (S3) in C++ with gSOAP](<http://www.codeproject.com/Articles/1108296/How-to-Use-Amazon-Simple-Storage-Service-S-in-Cplusplus>)

[How to Use Exchange Web Service in C++ With gSOAP](<https://www.codeproject.com/Articles/1119224/How-to-Use-Exchange-Web-Service-in-Cplusplus-With-gSOAP>)

[A Framework for Service-Oriented Computing with C and C++ Web Service Components](<https://www.genivia.com/article8.html>) - published in ACM Transactions on Internet Technology, Vol.8, No.3, 2008

[An Overview and Evaluation of Web Services Security Performance Optimizations](<https://www.genivia.com/article7.html>) - published in the proceedings of the IEEE International Conference on Web Services 2008

[High-Performance XML Parsing and Validation with Permutation Phrase Grammar Parsers](<https://www.genivia.com/article6.html>) - published in the proceedings of the IEEE International Conference on Web Services 2008

[A Table-Driven Streaming XML Parsing Methodology for High-Performance Web Services](<https://www.genivia.com/article5.html>) - published in the proceedings of the IEEE International Conference on Web Services 2006

[Exploring Remote Object Coherence in XML Web Services](<https://www.genivia.com/article4.html>) - published in the proceedings of the IEEE International Conference on Web Services 2006

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### Miscellaneous

[gSOAP wikipedia page](<https://en.wikipedia.org/wiki/GSOAP>)

[gSOAP details on OpenHub](<https://www.openhub.net/p/gsoap>)

[Original gSOAP web pages](<https://www.cs.fsu.edu/~engelen/soap.html>)

[Homebrew gSOAP](<https://formulae.brew.sh/formula/gsoap>)

[Debian gSOAP package](<https://packages.debian.org/unstable/devel/gsoap>)

[Linux RPM resources for gSOAP](<https://rpmfind.net/linux/rpm2html/search.php?query=gsoap>)

[GitHub ONVIF WSDD project is a Linux daemon for ONVIF WS-Discovery](<https://github.com/KoynovStas/wsdd>)

[Web Services for Devices WS4D-gsoap based on DPWS](<http://ws4d.org/category/stack-c-ws4d-gsoap>) with [source code](<https://gitlab.amd.e-technik.uni-rostock.de/ws4d/ws4d-gsoap>)

[GitHub gsoap-onvif project](<https://github.com/xris-hu/gsoap-onvif>)

[GitHub libONVIF project](<https://github.com/Tereius/libONVIF>)

[How to use gSOAP with Qt for Web Service Client]([https://wiki.qt.io/How\\_to\\_use\\_gSOAP\\_with\\_Qt\\_for\\_Web\\_Service\\_Client](https://wiki.qt.io/How_to_use_gSOAP_with_Qt_for_Web_Service_Client))

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
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lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c

lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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- \* Detect unordered\_map in stl\_hash.m4.

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- \* Added generation of field number constants.

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- \* Detect whether zlib is new enough in configure script.
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- \* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
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- \* Fixed detection of sched\_yield on Solaris.
- \* Added atomicops for Solaris

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- \* Fixed minor IBM xLC compiler build issues
- \* Added atomicops for AIX (POWER)

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MySQL 8.0

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Facebook Fast Checksum Patch

Facebook Fast Checksum Patch

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Also included:

crc32.c -- compute the CRC-32 of a buf stream

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Google Controlling Master Thread I/O Rate Patch

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Google Perftools (TCMalloc utility)

Google Perftools (TCMalloc utility)

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Google SMP Patch

Google SMP patch

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lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including

the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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```
# unidata-5.2.0.txt
# Date: 2009-09-22, 16:23:42 PDT [KW]
#
# This file defines the Default Unicode Collation Element Table
# (DUCET) for the Unicode Collation Algorithm
#
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#
# See UTS #10, Unicode Collation Algorithm, for more information.
#
```

# Diagnostic weight ranges  
# Primary weight range: 0200..3ACA  
(14539)  
# Secondary weight range: 0020..0192 (371)  
# Variant secondaries: 0159..015E (6)  
# Digit secondaries: 015F..0192 (52)  
# Tertiary weight range: 0002..001F (30)  
#  
@version 5.2.0

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Also see the ChangeLog for even more people who have helped over the years by submitting fixes, patches and reporting bugs.

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MySQL Router 8.0

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Kerberos5

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"src/lib/gssapi", including the following  
files:

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lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h

lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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# Jackson JSON processor

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MySQL Connector/J 8.0

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Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: @PRODUCT@

Upstream-Contact: MySQL Release Engineering <mysql-build@oss.oracle.com>

Source: <http://dev.mysql.com/>

Files: \*

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## 1.277 curl 8.1.1

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## 1.278 bcpkix-fips 1.0.7

### 1.278.1 Available under license :

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```
/**
 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 *
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */
```

Found in path(s):

```
* /opt/cola/permits/1866420555_1702420805.8968983/0/bcpkix-fips-1-0-7-sources-2-
jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java
```

## 1.279 proto-google-common-protos 2.29.0

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```

Found in path(s):

```
* /opt/cola/permits/1870521330_1702990616.6788976/0/proto-google-common-protos-2-29-0-
jar/google/type/decimal.proto
* /opt/cola/permits/1870521330_1702990616.6788976/0/proto-google-common-protos-2-29-0-
jar/google/api/config_change.proto
* /opt/cola/permits/1870521330_1702990616.6788976/0/proto-google-common-protos-2-29-0-
jar/google/cloud/audit/audit_log.proto
```

\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/api/client.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/api/service.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/type/quaternion.proto  
\*  
/opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/type/month.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/rpc/status.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/rpc/context/audit\_context.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/type/expr.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/type/color.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/api/routing.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/api/monitored\_resource.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/api/field\_info.proto  
\*  
/opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/api/annotations.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/api/monitoring.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/api/resource.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/api/documentation.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/type/calendar\_period.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/api/quota.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/rpc/error\_details.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/type/date.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/api/policy.proto  
\*  
/opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/longrunning/operations.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-jar/google/api/endpoint.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-

jar/google/api/consumer.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/logging/type/log\_severity.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/type/datetime.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/logging/type/http\_request.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/api/distribution.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/api/logging.proto  
\*  
/opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/api/usage.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/rpc/code.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/type/phone\_number.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/api/error\_reason.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/geo/type/viewport.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/rpc/context/attribute\_context.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/type/money.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/api/control.proto  
\*  
/opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/api/visibility.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/cloud/location/locations.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/api/source\_info.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/type/localized\_text.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/type/fraction.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/api/auth.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/api/system\_parameter.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/type/interval.proto  
\* /opt/cola/permits/1870521330\_1702990616.6788976/0/proto-google-common-protos-2-29-0-  
jar/google/api/context.proto  
\*

```
/opt/cola/permits/1870521330_1702990616.6788976/0/proto-google-common-protos-2-29-0-
jar/google/api/field_behavior.proto
* /opt/cola/permits/1870521330_1702990616.6788976/0/proto-google-common-protos-2-29-0-
jar/google/api/backend.proto
* /opt/cola/permits/1870521330_1702990616.6788976/0/proto-google-common-protos-2-29-0-
jar/google/api/httpbody.proto
* /opt/cola/permits/1870521330_1702990616.6788976/0/proto-google-common-protos-2-29-0-
jar/google/api/label.proto
* /opt/cola/permits/1870521330_1702990616.6788976/0/proto-google-common-protos-2-29-0-
jar/google/api/log.proto
* /opt/cola/permits/1870521330_1702990616.6788976/0/proto-google-common-protos-2-29-0-
jar/google/api/metric.proto
* /opt/cola/permits/1870521330_1702990616.6788976/0/proto-google-common-protos-2-29-0-
jar/google/type/postal_address.proto
* /opt/cola/permits/1870521330_1702990616.6788976/0/proto-google-common-protos-2-29-0-
jar/google/api/http.proto
*
/opt/cola/permits/1870521330_1702990616.6788976/0/proto-google-common-protos-2-29-0-
jar/google/type/latlng.proto
* /opt/cola/permits/1870521330_1702990616.6788976/0/proto-google-common-protos-2-29-0-
jar/google/type/timeofday.proto
* /opt/cola/permits/1870521330_1702990616.6788976/0/proto-google-common-protos-2-29-0-
jar/google/api/billing.proto
* /opt/cola/permits/1870521330_1702990616.6788976/0/proto-google-common-protos-2-29-0-
jar/google/type/dayofweek.proto
* /opt/cola/permits/1870521330_1702990616.6788976/0/proto-google-common-protos-2-29-0-
jar/google/cloud/extended_operations.proto
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```

```
Found in path(s):
* /opt/cola/permits/1870521330_1702990616.6788976/0/proto-google-common-protos-2-29-0-
jar/google/api/launch_stage.proto
```

# 1.280 protobuf-java 3.25.1

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```

Found in path(s):

```
* /opt/cola/permits/1870521345_1702990628.701057/0/protobuf-java-3-25-1-jar/google/protobuf/duration.proto
* /opt/cola/permits/1870521345_1702990628.701057/0/protobuf-java-3-25-1-jar/google/protobuf/field_mask.proto
* /opt/cola/permits/1870521345_1702990628.701057/0/protobuf-java-3-25-1-jar/google/protobuf/type.proto
*
/opt/cola/permits/1870521345_1702990628.701057/0/protobuf-java-3-25-1-jar/google/protobuf/any.proto
* /opt/cola/permits/1870521345_1702990628.701057/0/protobuf-java-3-25-1-
jar/google/protobuf/source_context.proto
* /opt/cola/permits/1870521345_1702990628.701057/0/protobuf-java-3-25-1-jar/google/protobuf/descriptor.proto
* /opt/cola/permits/1870521345_1702990628.701057/0/protobuf-java-3-25-1-jar/google/protobuf/empty.proto
* /opt/cola/permits/1870521345_1702990628.701057/0/protobuf-java-3-25-1-jar/google/protobuf/wrappers.proto
* /opt/cola/permits/1870521345_1702990628.701057/0/protobuf-java-3-25-1-jar/google/protobuf/api.proto
* /opt/cola/permits/1870521345_1702990628.701057/0/protobuf-java-3-25-1-jar/google/protobuf/timestamp.proto
* /opt/cola/permits/1870521345_1702990628.701057/0/protobuf-java-3-25-1-jar/google/protobuf/struct.proto
```

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Manifest-Version: 1.0

Created-By: mergejars

Bnd-LastModified: 1700075063475

Bundle-Description: Core Protocol Buffers library. Protocol Buffers are a way of encoding structured data in an efficient yet extensible format

.

Bundle-DocURL: <https://developers.google.com/protocol-buffers/>

Bundle-License: <https://opensource.org/licenses/BSD-3-Clause>

Bundle-ManifestVersion: 2

Bundle-Name: Protocol Buffers [Core]

Bundle-SymbolicName: com.google.protobuf

Bundle-Version: 3.25.1

Export-Package: com.google.protobuf;version="3.25.1",com.google.protobuf.compiler;version="3.25.1";uses:="com.google.protobuf"

Import-Package: com.google.protobuf;version="[3.25,4)",sun.misc;resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-6.4.0.202211291949

Target-Label: //java/core:lite\_runtime\_only

Found in path(s):

```
* /opt/cola/permits/1870521345_1702990628.701057/0/protobuf-java-3-25-1-jar/META-INF/MANIFEST.MF
```

# 1.281 error\_prone\_annotations 2.23.0

## 1.281.1 Available under license :

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-->

Found in path(s):

\* /opt/cola/permits/1880697838\_1704469724.6983197/0/error-prone-annotations-2-23-0-jar/META-

INF/maven/com.google.errorprone/error\_prone\_annotations/pom.xml

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Created-By: Maven JAR Plugin 3.2.2

Build-Jdk-Spec: 17

Automatic-Module-Name: com.google.errorprone.annotations

Bundle-Description: Error Prone is a static analysis tool for Java that catches common programming mistakes at compile-time.

Bundle-DocURL: [https://errorprone.info/error\\_prone\\_annotations](https://errorprone.info/error_prone_annotations)

Bundle-License: "Apache 2.0";link="http://www.apache.org/licenses/LICENSE-2.0.txt"

Bundle-ManifestVersion: 2

Bundle-Name: error-prone annotations

Bundle-SCM: url="https://github.com/google/error-prone/error\_prone\_annotations",connection="scm:git:https://github.com/google/error-prone.git/error\_prone\_annotations",developer-connection="scm:git:git@github.com:google/error-prone.git/error\_prone\_annotations",tag=HEAD

Bundle-SymbolicName: com.google.errorprone.annotations

Bundle-Vendor: Google LLC

Bundle-Version: 2.23.0

Export-Package: com.google.errorprone.annotations;uses:="javax.lang.model

Element";version="2.23.0",com.google.errorprone.annotations.concurrent

t;version="2.23.0"

Import-Package: javax.lang.model.element

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Found in path(s):

\* /opt/cola/permits/1880697838\_1704469724.6983197/0/error-prone-annotations-2-23-0-jar/META-

INF/MANIFEST.MF

# 1.282 jsch 0.2.4

## 1.282.1 Available under license :

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```

## 1.283 logback-core 1.2.13

## 1.283.1 Available under license :

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```
/**
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```

Found in path(s):

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* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/joran/action/IADDataForBasicProperty.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/net/ssl/KeyManagerFactoryFactoryBean.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/joran/action/NOPAction.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/pattern/parser/Parser.java
*
/opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/encoder/EchoEncoder.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/joran/action/AppenderAction.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/rolling/FixedWindowRollingPolicy.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/joran/action/ContextPropertyAction.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/joran/util/PropertySetter.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/net/SMTPAppenderBase.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/rolling/helper/IntegerTokenConverter.java
*
/opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/pattern/CompositeConverter.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/joran/util/ConfigurationWatchListUtil.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/util/FileUtil.java
```

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* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/net/server/RemoteReceiverStreamClient.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/joran/conditional/PropertyWrapperForScripts.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/net/ssl/SecureRandomFactoryBean.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/util/StatusListenerConfigHelper.java
*
/opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/joran/spi/NoAutoStart.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/status/StatusListenerAsList.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/joran/spi/DefaultClass.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/net/ssl/SSLConfigurableServerSocket.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/spi/AppenderAttachableImpl.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/OutputStreamAppender.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/joran/conditional/PropertyEvalScriptBuilder.java
*
/opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/joran/event/BodyEvent.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/encoder/Encoder.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/joran/util/StringToObjectConverter.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/pattern/parser/FormattingNode.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/rolling/helper/FileNamePattern.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/net/server/ClientVisitor.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/net/QueueFactory.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/pattern/ReplacingCompositeConverter.java
*
/opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/util/DynamicClassLoadingException.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/net/ssl/SSLComponent.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/util/CloseUtil.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-

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jar/ch/qos/logback/core/net/SocketConnector.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/FixedDelay.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/PatternLayoutEncoderBase.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/ssl/ConfigurableSSLSocketFactory.java  
\*  
/opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/status/OnPrintStreamStatusListenerBase.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/rolling/helper/PeriodicityType.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/ssl/SSLNestedComponentRegistryRules.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/filter/AbstractMatcherFilter.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/GenericConfigurator.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/server/ServerSocketListener.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/status/InfoStatus.java  
\*  
/opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/IdentityCompositeConverter.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/recovery/RecoveryCoordinator.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/TimeUtil.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/sift/Discriminator.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/FileAppender.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/spi/EventPlayer.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/server/ConcurrentServerRunner.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/status/StatusUtil.java  
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/opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/action/NewRuleAction.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/server/SSLServerSocketAppenderBase.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/spi/ElementSelector.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/subst/NodeToStringTransformer.java

\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/helpers/ThrowableToStringArray.java  
 \* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/layout/EchoLayout.java  
 \* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/CharSequenceToRegexMapper.java  
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 /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/action/ParamAction.java  
 \* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/ContextUtil.java  
 \* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/LocationUtil.java  
 \* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/parser/Node.java  
 \* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/server/AbstractServerSocketAppender.java  
 \* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/DefaultInvocationGate.java  
 \* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/rolling/TimeBasedRollingPolicy.java  
 \* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/spi/FilterReply.java  
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 /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/conditional/IfAction.java  
 \* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/Loader.java  
 \* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/Appender.java  
 \* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/color/BoldBlueCompositeConverter.java  
 \* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/Converter.java  
 \* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/server/ServerListener.java  
 \* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/conditional/Condition.java  
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 /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/color/ANSIConstants.java  
 \* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/rolling/helper/ArchiveRemover.java  
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 \* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/ConsoleAppender.java  
 \* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-

jar/ch/qos/logback/core/boolex/EventEvaluatorBase.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/spi/CyclicBufferTracker.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/spi/PropertyDefiner.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/sift/AppenderTracker.java  
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/opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/encoder/NonClosableInputStream.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/joran/event/StartEvent.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/util/StatusPrinter.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/joran/action/ActionConst.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/joran/action/TimestampAction.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/joran/spi/HostClassAndPropertyDouble.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/joran/action/NestedComplexPropertyIA.java  
\*  
/opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/status/StatusBase.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/pattern/color/GrayCompositeConverter.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/pattern/FormatInfo.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/read/CyclicBufferAppender.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/net/ssl/TrustManagerFactoryFactoryBean.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/rolling/TriggeringPolicy.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/spi/ContextAwareBase.java  
\*  
/opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/joran/spi/ActionException.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/util/PropertySetterException.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/sift/AbstractDiscriminator.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/pattern/FormattingConverter.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/encoder/EncoderBase.java

\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/event/InPlayListener.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/rolling/TimeBasedFileNamingAndTriggeringPolicy.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/event/EndEvent.java  
\*  
/opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/SyslogConstants.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/util/IEscapeUtil.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/event/stax/StartEvent.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/spi/ComponentTracker.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/action/AppenderRefAction.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/status/NopStatusListener.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/filter/EvaluatorFilter.java  
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\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/rolling/helper/TokenConverter.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/spi/AbstractComponentTracker.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/joran/spi/JoranException.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-  
jar/ch/qos/logback/core/joran/spi/XMLUtil.java

```

* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/pattern/color/BoldCyanCompositeConverter.java
*
/opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/status/OnConsoleStatusListener.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/util/Duration.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/status/ViewStatusMessagesServletBase.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/net/server/RemoteReceiverServerListener.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/status/ErrorStatus.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/util/AggregationType.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/util/StringCollectionUtil.java
*
/opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/spi/AppenderAttachable.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/util/CharSequenceState.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/joran/action/PropertyAction.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/joran/spi/ConfigurationWatchList.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/pattern/DynamicConverter.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/pattern/color/BoldWhiteCompositeConverter.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/rolling/helper/CompressionMode.java
*
/opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/joran/action/ActionUtil.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/joran/spi/ElementPath.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/pattern/color/RedCompositeConverter.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/pattern/color/YellowCompositeConverter.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/rolling/RollingPolicy.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/spi/ScanException.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/pattern/util/AsIsEscapeUtil.java
*

```

/opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/JoranConfiguratorBase.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/sift/SiftingAppenderBase.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/rolling/DefaultTimeBasedFileNamingAndTriggeringPolicy.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/conditional/ThenAction.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/parser/Token.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/spi/ConsoleTarget.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/spi/DefaultNestedComponentRegistry.java  
\*  
/opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/rolling/RollingPolicyBase.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/ObjectWriter.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/LayoutBase.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/rolling/helper/FileStoreUtil.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/LoginAuthenticator.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/parser/Compiler.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/rolling/TimeBasedFileNamingAndTriggeringPolicyBase.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/action/ShutdownHookAction.java  
\*  
/opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/hook/DelayingShutdownHook.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/event/stax/StaxEventRecorder.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/color/MagentaCompositeConverter.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/parser/CompositeNode.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/encoder/ByteArrayUtil.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/ContentTypeUtil.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/parser/SimpleKeywordNode.java  
\*

```
/opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/status/StatusListener.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/helpers/Transform.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/joran/node/ComponentNode.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/net/AbstractSocketAppender.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/subst/Tokenizer.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/joran/spi/Interpreter.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/rolling/helper/MonoTypedConverter.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/util/OptionHelper.java
*
/opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/html/HTMLLayoutBase.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/rolling/helper/TimeBasedArchiveRemover.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/util/DelayStrategy.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/pattern/color/BoldMagentaCompositeConverter.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/spi/PreSerializationTransformer.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/spi/ContextAwareImpl.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-
jar/ch/qos/logback/core/net/DefaultSocketConnector.java
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```

```
/**
```

```
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```

Found in path(s):

\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/EnvUtil.java  
\* /opt/cola/permits/1882328976\_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/HardenedObjectInputStream.java

# 1.284 zstd 1.5.5

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## 1.285 zlib 1.2.13

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## 1.286 lz4-java 1.8.0

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\* /opt/cola/permits/1912366892\_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-  
jar/io/netty/handler/codec/redis/InlineCommandRedisMessage.java

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\* /opt/cola/permits/1912366892\_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-jar/io/netty/handler/codec/redis/ErrorRedisMessage.java

\*

/opt/cola/permits/1912366892\_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-jar/io/netty/handler/codec/redis/IntegerRedisMessage.java

\* /opt/cola/permits/1912366892\_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-jar/io/netty/handler/codec/redis/RedisMessageType.java

\* /opt/cola/permits/1912366892\_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-jar/io/netty/handler/codec/redis/RedisMessagePool.java

\* /opt/cola/permits/1912366892\_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-jar/io/netty/handler/codec/redis/RedisEncoder.java

\* /opt/cola/permits/1912366892\_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java

\* /opt/cola/permits/1912366892\_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-

```
jar/io/netty/handler/codec/redis/SimpleStringRedisMessage.java
* /opt/cola/permits/1912366892_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-
jar/io/netty/handler/codec/redis/RedisBulkStringAggregator.java
*
/opt/cola/permits/1912366892_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-
jar/io/netty/handler/codec/redis/BulkStringRedisContent.java
* /opt/cola/permits/1912366892_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-
jar/io/netty/handler/codec/redis/AbstractStringRedisMessage.java
* /opt/cola/permits/1912366892_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-
jar/io/netty/handler/codec/redis/BulkStringHeaderRedisMessage.java
* /opt/cola/permits/1912366892_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-
jar/io/netty/handler/codec/redis/ArrayRedisMessage.java
* /opt/cola/permits/1912366892_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-
jar/io/netty/handler/codec/redis/FullBulkStringRedisMessage.java
* /opt/cola/permits/1912366892_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-
jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java
*
/opt/cola/permits/1912366892_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-
jar/io/netty/handler/codec/redis/RedisCodecUtil.java
* /opt/cola/permits/1912366892_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-
jar/io/netty/handler/codec/redis/package-info.java
* /opt/cola/permits/1912366892_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-
jar/io/netty/handler/codec/redis/DefaultBulkStringRedisContent.java
* /opt/cola/permits/1912366892_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-
jar/io/netty/handler/codec/redis/RedisDecoder.java
* /opt/cola/permits/1912366892_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-
jar/io/netty/handler/codec/redis/RedisMessage.java
* /opt/cola/permits/1912366892_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-
jar/io/netty/handler/codec/redis/RedisArrayAggregator.java
* /opt/cola/permits/1912366892_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-
jar/io/netty/handler/codec/redis/ArrayHeaderRedisMessage.java
*
/opt/cola/permits/1912366892_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-
jar/io/netty/handler/codec/redis/RedisConstants.java
* /opt/cola/permits/1912366892_1708460188.0693328/0/netty-codec-redis-4-1-107-final-sources-
jar/io/netty/handler/codec/redis/FixedRedisMessagePool.java
```

## 1.288 netty-transport-native-unix-common

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\* /opt/cola/permits/1912366841\_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-jar/netty\_unix.h  
\* /opt/cola/permits/1912366841\_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-jar/netty\_unix.c

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\* /opt/cola/permits/1912366841\_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-jar/netty\_unix\_filedescriptor.c  
\*

/opt/cola/permits/1912366841\_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-jar/io/netty/channel/unix/Errors.java

\* /opt/cola/permits/1912366841\_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java

\* /opt/cola/permits/1912366841\_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java

```
* /opt/cola/permits/1912366841_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-
jar/netty_unix_socket.h
* /opt/cola/permits/1912366841_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-
jar/netty_unix_filedescriptor.h
* /opt/cola/permits/1912366841_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-
jar/netty_unix_socket.c
* /opt/cola/permits/1912366841_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-
jar/io/netty/channel/unix/FileDescriptor.java
*
/opt/cola/permits/1912366841_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-
jar/netty_unix_errors.h
* /opt/cola/permits/1912366841_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-
jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1912366841_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-
jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1912366841_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-
jar/netty_unix_errors.c
* /opt/cola/permits/1912366841_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-
jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/cola/permits/1912366841_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-
jar/io/netty/channel/unix/Socket.java
* /opt/cola/permits/1912366841_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-
jar/io/netty/channel/unix/DomainSocketReadMode.java
*
/opt/cola/permits/1912366841_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-
jar/io/netty/channel/unix/DatagramSocketAddress.java
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* /opt/cola/permits/1912366841_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-
jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1912366841_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-
```

jar/netty\_unix\_limits.c

\*

/opt/cola/permits/1912366841\_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-jar/io/netty/channel/unix/Limits.java

\* /opt/cola/permits/1912366841\_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java

\* /opt/cola/permits/1912366841\_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-jar/netty\_unix\_limits.h

\* /opt/cola/permits/1912366841\_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-jar/io/netty/channel/unix/PeerCredentials.java

\* /opt/cola/permits/1912366841\_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-jar/netty\_unix\_util.c

\* /opt/cola/permits/1912366841\_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java

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\* /opt/cola/permits/1912366841\_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-jar/io/netty/channel/unix/Buffer.java

\*

/opt/cola/permits/1912366841\_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-jar/netty\_unix\_buffer.h

\* /opt/cola/permits/1912366841\_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-jar/netty\_unix\_buffer.c

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\*

```
/opt/cola/permits/1912366841_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-
jar/io/netty/channel/unix/DomainDatagramSocketAddress.java
* /opt/cola/permits/1912366841_1708460241.334961/0/netty-transport-native-unix-common-4-1-107-final-sources-
jar/io/netty/channel/unix/SegmentedDatagramPacket.java
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\* /opt/cola/permits/1912367001\_1708460185.8276849/0/netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java

\* /opt/cola/permits/1912367001\_1708460185.8276849/0/netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.java

\* /opt/cola/permits/1912367001\_1708460185.8276849/0/netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java

\* /opt/cola/permits/1912367001\_1708460185.8276849/0/netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserverFactory.java

\*

/opt/cola/permits/1912367001\_1708460185.8276849/0/netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStreamProviders.java

\* /opt/cola/permits/1912367001\_1708460185.8276849/0/netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/SequentialDnsServerAddressStreamProvider.java

\* /opt/cola/permits/1912367001\_1708460185.8276849/0/netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/MultiDnsServerAddressStreamProvider.java

\* /opt/cola/permits/1912367001\_1708460185.8276849/0/netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/LoggingDnsQueryLifecycleObserver.java

\* /opt/cola/permits/1912367001\_1708460185.8276849/0/netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserver.java

\* /opt/cola/permits/1912367001\_1708460185.8276849/0/netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/DnsQueryLifecycleObserver.java

\*

/opt/cola/permits/1912367001\_1708460185.8276849/0/netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java

\* /opt/cola/permits/1912367001\_1708460185.8276849/0/netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStreamProvider.java

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```
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/ChannelHandlerMask.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/ExtendedClosedChannelException.java
*
```

```
/opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/EventLoopTaskQueueFactory.java
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\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/StacklessClosedChannelException.java

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\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-

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jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
*
/opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/MessageSizeEstimator.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/group/ChannelMatchers.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/ChannelId.java
*
/opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/DefaultChannelId.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/group/ChannelGroupException.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/SimpleChannelInboundHandler.java
*
/opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/group/ChannelMatcher.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/bootstrap/ChannelFactory.java

```

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/AddressedEnvelope.java

\*

/opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java

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jar/io/netty/channel/oio/OioByteStreamChannel.java

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\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/nio/package-info.java

\*

/opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/AbstractChannel.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/MultithreadEventLoopGroup.java

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\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelPipelineException.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java

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/opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelFuture.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/SocketChannel.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java  
 \* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/nio/NioSocketChannel.java  
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 \* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java  
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 \* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/group/DefaultChannelGroupFuture.java  
 \* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelPromise.java  
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 \* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/FixedRecvByteBufAllocator.java  
 \* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java  
 \* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelPipeline.java  
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 \* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/ServerSocketChannel.java  
 \* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelInboundHandler.java  
 \* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/local/LocalServerChannel.java  
 \* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java  
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 \* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java  
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 \* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelInitializer.java  
 \* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-

jar/io/netty/channel/local/package-info.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/bootstrap/package-info.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/ServerChannel.java  
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/opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/EventLoopException.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/oio/package-info.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/local/LocalEventLoopGroup.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/DatagramPacket.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/VoidChannelPromise.java  
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/opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/group/CombinedIterator.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/RecvByteBufAllocator.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/DefaultChannelPipeline.java  
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/opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/FailedChannelFuture.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/EventLoop.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/oio/AbstractOioChannel.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/AbstractServerChannel.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java

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\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/local/LocalChannel.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/bootstrap/Bootstrap.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/embedded/package-info.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelConfig.java

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/opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/SingleThreadEventLoop.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/SucceededChannelFuture.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelMetadata.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/EventLoopGroup.java

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\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannel.java

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/opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/package-info.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/DatagramChannel.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/oio/package-info.java

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\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-  
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\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-  
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/opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-  
jar/io/netty/channel/socket/oio/OioSocketChannel.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-  
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\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-  
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jar/io/netty/channel/ChannelOutboundHandler.java  
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 /\*\*  
 \* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in  
 \* its { @link ChannelPipeline }.  
 \*  
 \* <h3>Sub-types</h3>  
 \* <p>  
 \* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its  
 subtypes:  
 \* <ul>  
 \* <li>{ @link  
 ChannelInboundHandler } to handle inbound I/O events, and</li>  
 \* <li>{ @link ChannelOutboundHandler } to handle outbound I/O operations.</li>  
 \* </ul>  
 \* </p>  
 \* <p>  
 \* Alternatively, the following adapter classes are provided for your convenience:  
 \* <ul>  
 \* <li>{ @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>  
 \* <li>{ @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and</li>  
 \* <li>{ @link ChannelDuplexHandler } to handle both inbound and outbound events</li>  
 \* </ul>  
 \* </p>  
 \* <p>  
 \* For more information, please refer to the documentation of each subtype.  
 \* </p>  
 \*  
 \* <h3>The context object</h3>  
 \* <p>  
 \* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }  
 \* object. A { @link ChannelHandler } is supposed to interact with the  
 \* { @link ChannelPipeline } it belongs to via a context object. Using the  
 \* context object, the { @link ChannelHandler } can pass events upstream or  
 \* downstream, modify the pipeline dynamically,  
 \* or store the information  
 \* (using { @link AttributeKey }s) which is specific to the handler.

```

*
* <h3>State management</h3>
*
* A { @link ChannelHandler } often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends { @link SimpleChannelInboundHandler } &lt; Message &gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     { @code @Override }
*     public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where an unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel) }.
* public class DataServerInitializer extends { @link ChannelInitializer } &lt; { @link Channel } &gt; {
*     { @code @Override }
*     public void initChannel({ @link Channel } channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </pre>
*
* <h4>Using { @link AttributeKey }s</h4>

```

```

*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*         {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
* Now that the
* state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>
*
*

```

```

* <h4>The { @code @Sharable } annotation</h4>
* <p>
* In the example above which used an { @link AttributeKey },
* you might have noticed the { @code @Sharable } annotation.
* <p>
* If a { @link ChannelHandler } is annotated with the { @code @Sharable }
* annotation, it means you can create an instance of the handler just once and
* add it to one or more { @link ChannelPipeline }s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create
  a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the { @link ChannelHandler }, and
* { @link ChannelPipeline } to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

```

Found in path(s):

```

* /opt/cola/permits/1912366885_1708460190.7824366/0/netty-transport-4-1-107-final-sources-
jar/io/netty/channel/ChannelHandler.java

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\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/internal/ChannelUtils.java

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/opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java  
\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java  
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\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java  
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\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java  
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\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java  
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\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java  
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\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java  
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\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java

\*

/opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/DefaultSelectStrategyFactory.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/WriteBufferWaterMark.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/DuplexChannel.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/bootstrap/AbstractBootstrapConfig.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/SelectStrategy.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java

\*

/opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/bootstrap/ServerBootstrapConfig.java

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\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/ReflectiveChannelFactory.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/PendingWriteQueue.java

\*

/opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/AbstractEventLoop.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelFactory.java

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\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/nio/NioChannelOption.java

\* /opt/cola/permits/1912366885\_1708460190.7824366/0/netty-transport-4-1-107-final-sources-jar/io/netty/channel/SimpleUserEventChannelHandler.java

## 1.291 netty-transport-sctp 4.1.107.Final

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\* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-jar/io/netty/channel/sctp/SctpChannelOption.java

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\* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-jar/io/netty/channel/sctp/nio/package-info.java

\*

/opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-jar/io/netty/channel/sctp/oio/OioSctpServerChannel.java

\* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-jar/io/netty/handler/codec/sctp/SctpOutboundByteStreamHandler.java

\* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-jar/io/netty/channel/sctp/oio/package-info.java

\* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-jar/io/netty/channel/sctp/oio/OioSctpChannel.java

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jar/io/netty/handler/codec/sctp/SctpMessageToMessageDecoder.java
* /opt/cola/permits/1912366925_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-
jar/io/netty/handler/codec/sctp/package-info.java
```

```
* /opt/cola/permits/1912366925_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-
jar/io/netty/handler/codec/sctp/SctpMessageCompletionHandler.java
* /opt/cola/permits/1912366925_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-
jar/io/netty/handler/codec/sctp/SctpInboundByteStreamHandler.java
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jar/com/sun/nio/sctp/Association.java  
 \* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/com/sun/nio/sctp/PeerAddressChangeNotification.java  
 \*  
 /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/com/sun/nio/sctp/SctpServerChannel.java  
 \* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/com/sun/nio/sctp/package-info.java  
 \* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/com/sun/nio/sctp/AssociationChangeNotification.java  
 \* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/io/netty/channel/sctp/nio/NioSctpServerChannel.java  
 \* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/io/netty/channel/sctp/SctpChannelConfig.java  
 \* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/com/sun/nio/sctp/SctpChannel.java  
 \* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/com/sun/nio/sctp/NotificationHandler.java  
 \*  
 /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/com/sun/nio/sctp/SctpSocketOption.java  
 \* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/com/sun/nio/sctp/Notification.java  
 \* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/io/netty/channel/sctp/SctpNotificationHandler.java  
 \* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/io/netty/channel/sctp/nio/NioSctpChannel.java  
 \* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/com/sun/nio/sctp/ShutdownNotification.java  
 \* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/com/sun/nio/sctp/HandlerResult.java  
 \* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/com/sun/nio/sctp/AbstractNotificationHandler.java  
 \* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/io/netty/channel/sctp/SctpServerChannel.java  
 \*  
 /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/io/netty/channel/sctp/SctpChannel.java  
 \* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/com/sun/nio/sctp/MessageInfo.java  
 \* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/com/sun/nio/sctp/SendFailedNotification.java  
 \* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/io/netty/channel/sctp/SctpServerChannelConfig.java  
 \* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java  
 \* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-  
 jar/com/sun/nio/sctp/SctpStandardSocketOptions.java

\*  
/opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-jar/io/netty/channel/sctp/SctpMessage.java  
\* /opt/cola/permits/1912366925\_1708460707.3798392/0/netty-transport-sctp-4-1-107-final-sources-jar/com/sun/nio/sctp/UnsupportedOperationException.java  
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# 1.292 netty-handler-proxy 4.1.107.Final

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* /opt/cola/permits/1912367008_1708460275.7912738/0/netty-handler-proxy-4-1-107-final-sources-jar/META-INF/maven/io.netty/netty-handler-proxy/pom.xml
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* /opt/cola/permits/1912367008_1708460275.7912738/0/netty-handler-proxy-4-1-107-final-sources-jar/io.netty.handler.proxy.ProxyConnectException.java
```

```
* /opt/cola/permits/1912367008_1708460275.7912738/0/netty-handler-proxy-4-1-107-final-sources-
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```
jar/io/netty/handler/proxy/ProxyHandler.java
*
/opt/cola/permits/1912367008_1708460275.7912738/0/netty-handler-proxy-4-1-107-final-sources-
jar/io/netty/handler/proxy/ProxyConnectionEvent.java
* /opt/cola/permits/1912367008_1708460275.7912738/0/netty-handler-proxy-4-1-107-final-sources-
jar/io/netty/handler/proxy/Socks4ProxyHandler.java
* /opt/cola/permits/1912367008_1708460275.7912738/0/netty-handler-proxy-4-1-107-final-sources-
jar/io/netty/handler/proxy/Socks5ProxyHandler.java
* /opt/cola/permits/1912367008_1708460275.7912738/0/netty-handler-proxy-4-1-107-final-sources-
jar/io/netty/handler/proxy/package-info.java
* /opt/cola/permits/1912367008_1708460275.7912738/0/netty-handler-proxy-4-1-107-final-sources-
jar/io/netty/handler/proxy/HttpProxyHandler.java
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## 1.293 netty-codec-mqtt 4.1.107.Final

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\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnectPayload.java

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/opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttSubscribeMessage.java

\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnAckVariableHeader.java

\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessageFactory.java

\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttCodecUtil.java

\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttSubAckPayload.java

\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttVersion.java

\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttUnsubAckMessage.java

\*

/opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttPublishMessage.java

\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessageIdVariableHeader.java

\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttFixedHeader.java  
\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttIdentifierRejectedException.java  
\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttSubAckMessage.java  
\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessageType.java  
\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessage.java  
\*

/opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttUnacceptableProtocolVersionException.java  
\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttEncoder.java  
\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttPublishVariableHeader.java  
\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnectReturnCode.java  
\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttUnsubscribeMessage.java  
\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttTopicSubscription.java  
\*

/opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttUnsubscribePayload.java  
\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttDecoder.java  
\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttPubAckMessage.java  
\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnectMessage.java  
\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttSubscribePayload.java  
\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnAckMessage.java

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jar/io/netty/handler/codec/mqtt/MqttPubReplyMessageVariableHeader.java  
\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-  
jar/io/netty/handler/codec/mqtt/MqttProperties.java  
\*

/opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-  
jar/io/netty/handler/codec/mqtt/MqttReasonCodeAndPropertiesVariableHeader.java  
\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-  
jar/io/netty/handler/codec/mqtt/MqttSubscriptionOption.java  
\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-  
jar/io/netty/handler/codec/mqtt/MqttMessageIdAndPropertiesVariableHeader.java  
\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-  
jar/io/netty/handler/codec/mqtt/MqttUnsubAckPayload.java

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jar/io/netty/handler/codec/mqtt/package-info.java  
\* /opt/cola/permits/1912367135\_1708460887.0733333/0/netty-codec-mqtt-4-1-107-final-sources-  
jar/io/netty/handler/codec/mqtt/MqttQoS.java

## 1.294 netty-resolver 4.1.107.Final

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\* /opt/cola/permits/1912366932\_1708460195.1031659/0/netty-resolver-4-1-107-final-sources-jar/io/netty/resolver/RoundRobinInetAddressResolver.java

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\* /opt/cola/permits/1912366932\_1708460195.1031659/0/netty-resolver-4-1-107-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java

\* /opt/cola/permits/1912366932\_1708460195.1031659/0/netty-resolver-4-1-107-final-sources-jar/io/netty/resolver/HostsFileEntries.java

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\* /opt/cola/permits/1912366932\_1708460195.1031659/0/netty-resolver-4-1-107-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java  
\*  
/opt/cola/permits/1912366932\_1708460195.1031659/0/netty-resolver-4-1-107-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java  
\* /opt/cola/permits/1912366932\_1708460195.1031659/0/netty-resolver-4-1-107-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java  
\* /opt/cola/permits/1912366932\_1708460195.1031659/0/netty-resolver-4-1-107-final-sources-jar/io/netty/resolver/CompositeNameResolver.java  
\* /opt/cola/permits/1912366932\_1708460195.1031659/0/netty-resolver-4-1-107-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java  
\* /opt/cola/permits/1912366932\_1708460195.1031659/0/netty-resolver-4-1-107-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java  
\* /opt/cola/permits/1912366932\_1708460195.1031659/0/netty-resolver-4-1-107-final-sources-jar/io/netty/resolver/HostsFileParser.java  
\* /opt/cola/permits/1912366932\_1708460195.1031659/0/netty-resolver-4-1-107-final-sources-jar/io/netty/resolver/AddressResolver.java  
\* /opt/cola/permits/1912366932\_1708460195.1031659/0/netty-resolver-4-1-107-final-sources-jar/io/netty/resolver/DefaultNameResolver.java

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jar/io/netty/resolver/HostsFileEntriesProvider.java

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jar/io/netty/resolver/package-info.java

\* /opt/cola/permits/1912366932\_1708460195.1031659/0/netty-resolver-4-1-107-final-sources-  
jar/io/netty/resolver/AddressResolverGroup.java

\* /opt/cola/permits/1912366932\_1708460195.1031659/0/netty-resolver-4-1-107-final-sources-  
jar/io/netty/resolver/NameResolver.java

\*

/opt/cola/permits/1912366932\_1708460195.1031659/0/netty-resolver-4-1-107-final-sources-  
jar/io/netty/resolver/SimpleNameResolver.java

\* /opt/cola/permits/1912366932\_1708460195.1031659/0/netty-resolver-4-1-107-final-sources-  
jar/io/netty/resolver/NoopAddressResolver.java

\* /opt/cola/permits/1912366932\_1708460195.1031659/0/netty-resolver-4-1-107-final-sources-  
jar/io/netty/resolver/NoopAddressResolverGroup.java

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## 1.295 netty-codec-socks 4.1.107.Final

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\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressEncoder.java  
\*

/opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java

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```

```
* /opt/cola/permits/1912366904_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socks/SocksCmdType.java
```

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*
/opt/cola/permits/1912366904_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
```

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* /opt/cola/permits/1912366904_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
```

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* /opt/cola/permits/1912366904_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-
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jar/io/netty/handler/codec/socksx/SocksVersion.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-  
jar/io/netty/handler/codec/socks/SocksRequestType.java  
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jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java  
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jar/io/netty/handler/codec/socks/SocksAuthScheme.java  
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jar/io/netty/handler/codec/socks/SocksAuthStatus.java  
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/opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-  
jar/io/netty/handler/codec/socks/SocksMessageType.java  
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jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthStatus.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-  
jar/io/netty/handler/codec/socks/SocksResponseType.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-  
jar/io/netty/handler/codec/socks/SocksAddressType.java  
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\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-  
jar/io/netty/handler/codec/socksx/v5/Socks5ClientEncoder.java

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\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java  
\*  
/opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequestDecoder.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequestDecoder.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java  
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/opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5Message.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socksx/v4/package-info.java  
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\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java  
\*  
/opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksResponse.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequest.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequest.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponse.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthResponse.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponse.java  
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/opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponse.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socks/SocksCommonUtils.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socks/SocksMessage.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequest.java  
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\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandStatus.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksRequest.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequestDecoder.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socks/SocksResponse.java  
\* /opt/cola/permits/1912366904\_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java

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* /opt/cola/permits/1912366904_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-
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* /opt/cola/permits/1912366904_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-
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jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequest.java
* /opt/cola/permits/1912366904_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandResponse.java
* /opt/cola/permits/1912366904_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4CommandRequest.java
* /opt/cola/permits/1912366904_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponse.java
* /opt/cola/permits/1912366904_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandRequest.java
* /opt/cola/permits/1912366904_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-
jar/io/netty/handler/codec/socksx/v5/package-info.java
* /opt/cola/permits/1912366904_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-
jar/io/netty/handler/codec/socks/SocksRequest.java
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/opt/cola/permits/1912366904_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-
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* /opt/cola/permits/1912366904_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-
jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java
* /opt/cola/permits/1912366904_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-
jar/io/netty/handler/codec/socks/SocksMessageEncoder.java
* /opt/cola/permits/1912366904_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-
jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandRequest.java
* /opt/cola/permits/1912366904_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-
jar/io/netty/handler/codec/socks/SocksAuthRequest.java
* /opt/cola/permits/1912366904_1708460224.4832048/0/netty-codec-socks-4-1-107-final-sources-
jar/io/netty/handler/codec/socks/package-info.java
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jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthRequest.java

```

# 1.296 netty-transport-classes-epoll

## 4.1.107.Final

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jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
```

\* /opt/cola/permits/1912367031\_1708460231.6747782/0/netty-transport-classes-epoll-4-1-107-final-sources-jar/io/netty/channel/epoll/LinuxSocket.java

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```
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*/
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.

*/
```

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jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /opt/cola/permits/1912367031_1708460231.6747782/0/netty-transport-classes-epoll-4-1-107-final-sources-
jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
*
/opt/cola/permits/1912367031_1708460231.6747782/0/netty-transport-classes-epoll-4-1-107-final-sources-
jar/io/netty/channel/epoll/EpollMode.java
* /opt/cola/permits/1912367031_1708460231.6747782/0/netty-transport-classes-epoll-4-1-107-final-sources-
jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /opt/cola/permits/1912367031_1708460231.6747782/0/netty-transport-classes-epoll-4-1-107-final-sources-
jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/cola/permits/1912367031_1708460231.6747782/0/netty-transport-classes-epoll-4-1-107-final-sources-
jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/cola/permits/1912367031_1708460231.6747782/0/netty-transport-classes-epoll-4-1-107-final-sources-
jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/cola/permits/1912367031_1708460231.6747782/0/netty-transport-classes-epoll-4-1-107-final-sources-
jar/io/netty/channel/epoll/EpollEventArray.java
```

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/opt/cola/permits/1912367031\_1708460231.6747782/0/netty-transport-classes-epoll-4-1-107-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java  
\* /opt/cola/permits/1912367031\_1708460231.6747782/0/netty-transport-classes-epoll-4-1-107-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java  
\* /opt/cola/permits/1912367031\_1708460231.6747782/0/netty-transport-classes-epoll-4-1-107-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java  
\* /opt/cola/permits/1912367031\_1708460231.6747782/0/netty-transport-classes-epoll-4-1-107-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java  
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* /opt/cola/permits/1912367031_1708460231.6747782/0/netty-transport-classes-epoll-4-1-107-final-sources-
jar/io/netty/channel/epoll/AbstractEpollChannel.java
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/opt/cola/permits/1912367031_1708460231.6747782/0/netty-transport-classes-epoll-4-1-107-final-sources-
jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1912367031_1708460231.6747782/0/netty-transport-classes-epoll-4-1-107-final-sources-
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* /opt/cola/permits/1912367031_1708460231.6747782/0/netty-transport-classes-epoll-4-1-107-final-sources-
jar/io/netty/channel/epoll/package-info.java
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jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
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jar/io/netty/channel/epoll/EpollTcpInfo.java
*
/opt/cola/permits/1912367031_1708460231.6747782/0/netty-transport-classes-epoll-4-1-107-final-sources-
jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/1912367031_1708460231.6747782/0/netty-transport-classes-epoll-4-1-107-final-sources-
jar/io/netty/channel/epoll/Epoll.java
```

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```

```
*/
```

```
/**
```

```
* Set the { @code TCP_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.
```

```
*/
```

```
/**
```

- \* Set the { @code TCP\_QUICKACK } option on the socket.
- \* See <a href="https://linux.die.net/man/7/tcp">TCP\_QUICKACK</a>
- \* for more details.
- \*/

Found in path(s):

\* /opt/cola/permits/1912367031\_1708460231.6747782/0/netty-transport-classes-epoll-4-1-107-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

## 1.297 netty-codec-xml 4.1.107.Final

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```

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\* /opt/cola/permits/1912366848\_1708460256.4799318/0/netty-codec-xml-4-1-107-final-sources-jar/META-INF/maven/io.netty/netty-codec-xml/pom.xml

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- \* /opt/cola/permits/1912366848\_1708460256.4799318/0/netty-codec-xml-4-1-107-final-sources-jar/io/netty/handler/codec/xml/XmlDecoder.java
- \* /opt/cola/permits/1912366848\_1708460256.4799318/0/netty-codec-xml-4-1-107-final-sources-jar/io/netty/handler/codec/xml/XmlElement.java
- \*
- /opt/cola/permits/1912366848\_1708460256.4799318/0/netty-codec-xml-4-1-107-final-sources-jar/io/netty/handler/codec/xml/package-info.java
- \* /opt/cola/permits/1912366848\_1708460256.4799318/0/netty-codec-xml-4-1-107-final-sources-jar/io/netty/handler/codec/xml/XmlSpace.java
- \* /opt/cola/permits/1912366848\_1708460256.4799318/0/netty-codec-xml-4-1-107-final-sources-jar/io/netty/handler/codec/xml/XmlAttribute.java
- \* /opt/cola/permits/1912366848\_1708460256.4799318/0/netty-codec-xml-4-1-107-final-sources-jar/io/netty/handler/codec/xml/XmlCdata.java
- \* /opt/cola/permits/1912366848\_1708460256.4799318/0/netty-codec-xml-4-1-107-final-sources-jar/io/netty/handler/codec/xml/XmlEntityReference.java
- \* /opt/cola/permits/1912366848\_1708460256.4799318/0/netty-codec-xml-4-1-107-final-sources-jar/io/netty/handler/codec/xml/XmlDocumentEnd.java
- \* /opt/cola/permits/1912366848\_1708460256.4799318/0/netty-codec-xml-4-1-107-final-sources-jar/io/netty/handler/codec/xml/XmlNamespace.java
- \* /opt/cola/permits/1912366848\_1708460256.4799318/0/netty-codec-xml-4-1-107-final-sources-jar/io/netty/handler/codec/xml/XmlComment.java
- \*
- /opt/cola/permits/1912366848\_1708460256.4799318/0/netty-codec-xml-4-1-107-final-sources-jar/io/netty/handler/codec/xml/XmlContent.java
- \* /opt/cola/permits/1912366848\_1708460256.4799318/0/netty-codec-xml-4-1-107-final-sources-jar/io/netty/handler/codec/xml/XmlDocumentStart.java
- \* /opt/cola/permits/1912366848\_1708460256.4799318/0/netty-codec-xml-4-1-107-final-sources-jar/io/netty/handler/codec/xml/XmlCharacters.java
- \* /opt/cola/permits/1912366848\_1708460256.4799318/0/netty-codec-xml-4-1-107-final-sources-jar/io/netty/handler/codec/xml/XmlElementStart.java
- \* /opt/cola/permits/1912366848\_1708460256.4799318/0/netty-codec-xml-4-1-107-final-sources-jar/io/netty/handler/codec/xml/XmlDTD.java
- \* /opt/cola/permits/1912366848\_1708460256.4799318/0/netty-codec-xml-4-1-107-final-sources-jar/io/netty/handler/codec/xml/XmlProcessingInstruction.java
- \* /opt/cola/permits/1912366848\_1708460256.4799318/0/netty-codec-xml-4-1-107-final-sources-jar/io/netty/handler/codec/xml/XmlElementEnd.java

## 1.298 netty-codec-haproxy 4.1.107.Final

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```
* /opt/cola/permits/1912366911_1708460256.4696126/0/netty-codec-haproxy-4-1-107-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyMessageEncoder.java
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* /opt/cola/permits/1912366911_1708460256.4696126/0/netty-codec-haproxy-4-1-107-final-sources-jar/META-INF/maven/io.netty/netty-codec-haproxy/pom.xml
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\* /opt/cola/permits/1912366911\_1708460256.4696126/0/netty-codec-haproxy-4-1-107-final-sources-jar/io/netty/handler/codec/haproxy/HAProxySSLTLV.java  
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\* /opt/cola/permits/1912366911\_1708460256.4696126/0/netty-codec-haproxy-4-1-107-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyMessageDecoder.java  
\*  
\* /opt/cola/permits/1912366911\_1708460256.4696126/0/netty-codec-haproxy-4-1-107-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyCommand.java  
\* /opt/cola/permits/1912366911\_1708460256.4696126/0/netty-codec-haproxy-4-1-107-final-sources-jar/io/netty/handler/codec/haproxy/package-info.java  
\* /opt/cola/permits/1912366911\_1708460256.4696126/0/netty-codec-haproxy-4-1-107-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyConstants.java

```
* /opt/cola/permits/1912366911_1708460256.4696126/0/netty-codec-haproxy-4-1-107-final-sources-
jar/io/netty/handler/codec/haproxy/HAProxyProtocolVersion.java
* /opt/cola/permits/1912366911_1708460256.4696126/0/netty-codec-haproxy-4-1-107-final-sources-
jar/io/netty/handler/codec/haproxy/HAProxyMessage.java
* /opt/cola/permits/1912366911_1708460256.4696126/0/netty-codec-haproxy-4-1-107-final-sources-
jar/io/netty/handler/codec/haproxy/HAProxyProxiedProtocol.java
```

## 1.299 netty-resolver-dns-classes-macos

### 4.1.107.Final

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```
* /opt/cola/permits/1912367059_1708460229.4040077/0/netty-resolver-dns-classes-macos-4-1-107-final-sources-
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\* /opt/cola/permits/1912367059\_1708460229.4040077/0/netty-resolver-dns-classes-macos-4-1-107-final-sources-jar/io/netty/resolver/dns/macos/MacOSDnsServerAddressStreamProvider.java  
\*  
/opt/cola/permits/1912367059\_1708460229.4040077/0/netty-resolver-dns-classes-macos-4-1-107-final-sources-jar/io/netty/resolver/dns/macos/DnsResolver.java

# 1.300 netty-codec-memcache 4.1.107.Final

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\* /opt/cola/permits/1912367038\_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-jar/io/netty/handler/codec/memcache/DefaultLastMemcacheContent.java

\*

/opt/cola/permits/1912367038\_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectDecoder.java

\* /opt/cola/permits/1912367038\_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-jar/io/netty/handler/codec/memcache/binary/FullBinaryMemcacheRequest.java

\* /opt/cola/permits/1912367038\_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectAggregator.java

\* /opt/cola/permits/1912367038\_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-jar/io/netty/handler/codec/memcache/binary/DefaultBinaryMemcacheRequest.java

\* /opt/cola/permits/1912367038\_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequestDecoder.java

\* /opt/cola/permits/1912367038\_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequestEncoder.java

\*

/opt/cola/permits/1912367038\_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-jar/io/netty/handler/codec/memcache/MemcacheContent.java

\* /opt/cola/permits/1912367038\_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-jar/io/netty/handler/codec/memcache/DefaultMemcacheContent.java

\* /opt/cola/permits/1912367038\_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-jar/io/netty/handler/codec/memcache/MemcacheObject.java

\* /opt/cola/permits/1912367038\_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-jar/io/netty/handler/codec/memcache/LastMemcacheContent.java

\* /opt/cola/permits/1912367038\_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-jar/io/netty/handler/codec/memcache/binary/DefaultFullBinaryMemcacheResponse.java

\* /opt/cola/permits/1912367038\_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-jar/io/netty/handler/codec/memcache/FullMemcacheMessage.java

\*

/opt/cola/permits/1912367038\_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseStatus.java

\* /opt/cola/permits/1912367038\_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponse.java

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\* /opt/cola/permits/1912367038\_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-jar/io/netty/handler/codec/memcache/AbstractMemcacheObject.java

```

* /opt/cola/permits/1912367038_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequest.java
* /opt/cola/permits/1912367038_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheServerCodec.java
*
/opt/cola/permits/1912367038_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-
jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheDecoder.java
* /opt/cola/permits/1912367038_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheOpcodes.java
* /opt/cola/permits/1912367038_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheObjectAggregator.java
* /opt/cola/permits/1912367038_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-
jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheMessage.java
* /opt/cola/permits/1912367038_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-
jar/io/netty/handler/codec/memcache/binary/FullBinaryMemcacheResponse.java
* /opt/cola/permits/1912367038_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-
jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheEncoder.java
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jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseEncoder.java
* /opt/cola/permits/1912367038_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-
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* /opt/cola/permits/1912367038_1708460279.6501567/0/netty-codec-memcache-4-1-107-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheClientCodec.java
*
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jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectEncoder.java
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# 1.301 netty-transport-udt 4.1.107.Final

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\* /opt/cola/permits/1912366918\_1708460271.7668064/0/netty-transport-udt-4-1-107-final-sources-jar/io/netty/channel/udt/nio/package-info.java  
\*  
/opt/cola/permits/1912366918\_1708460271.7668064/0/netty-transport-udt-4-1-107-final-sources-jar/io/netty/channel/udt/UdtMessage.java  
\* /opt/cola/permits/1912366918\_1708460271.7668064/0/netty-transport-udt-4-1-107-final-sources-jar/io/netty/channel/udt/UdtChannelConfig.java  
\* /opt/cola/permits/1912366918\_1708460271.7668064/0/netty-transport-udt-4-1-107-final-sources-jar/io/netty/channel/udt/package-info.java  
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\* /opt/cola/permits/1912366918\_1708460271.7668064/0/netty-transport-udt-4-1-107-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageAcceptorChannel.java  
\* /opt/cola/permits/1912366918\_1708460271.7668064/0/netty-transport-udt-4-1-107-final-sources-jar/io/netty/channel/udt/nio/NioUdtProvider.java  
\*  
/opt/cola/permits/1912366918\_1708460271.7668064/0/netty-transport-udt-4-1-107-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java

```
* /opt/cola/permits/1912366918_1708460271.7668064/0/netty-transport-udt-4-1-107-final-sources-
jar/io/netty/channel/udt/nio/NioUdtByteAcceptorChannel.java
* /opt/cola/permits/1912366918_1708460271.7668064/0/netty-transport-udt-4-1-107-final-sources-
jar/io/netty/channel/udt/nio/NioUdtAcceptorChannel.java
* /opt/cola/permits/1912366918_1708460271.7668064/0/netty-transport-udt-4-1-107-final-sources-
jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java
* /opt/cola/permits/1912366918_1708460271.7668064/0/netty-transport-udt-4-1-107-final-sources-
jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
* /opt/cola/permits/1912366918_1708460271.7668064/0/netty-transport-udt-4-1-107-final-sources-
jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java
* /opt/cola/permits/1912366918_1708460271.7668064/0/netty-transport-udt-4-1-107-final-sources-
jar/io/netty/channel/udt/UdtChannel.java
```

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```
* /opt/cola/permits/1912366918_1708460271.7668064/0/netty-transport-udt-4-1-107-final-sources-jar/META-
INF/maven/io.netty/netty-transport-udt/pom.xml
```

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\* /opt/cola/permits/1912366918\_1708460271.7668064/0/netty-transport-udt-4-1-107-final-sources-jar/io/netty/channel/udt/UdtServerChannelConfig.java

\* /opt/cola/permits/1912366918\_1708460271.7668064/0/netty-transport-udt-4-1-107-final-sources-jar/io/netty/channel/udt/UdtChannelOption.java

\*

/opt/cola/permits/1912366918\_1708460271.7668064/0/netty-transport-udt-4-1-107-final-sources-jar/io/netty/channel/udt/DefaultUdtServerChannelConfig.java

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\* /opt/cola/permits/1912366918\_1708460271.7668064/0/netty-transport-udt-4-1-107-final-sources-jar/io/netty/channel/udt/UdtServerChannel.java

## 1.302 netty-transport-rxtx 4.1.107.Final

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\* /opt/cola/permits/1912367128\_1708460703.8758316/0/netty-transport-rxtx-4-1-107-final-sources-jar/META-INF/maven/io.netty/netty-transport-rxtx/pom.xml

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Found in path(s):

\* /opt/cola/permits/1912367128\_1708460703.8758316/0/netty-transport-rxtx-4-1-107-final-sources-jar/io/netty/channel/rxtx/RxtxDeviceAddress.java

\* /opt/cola/permits/1912367128\_1708460703.8758316/0/netty-transport-rxtx-4-1-107-final-sources-jar/io/netty/channel/rxtx/RxtxChannelOption.java

\*

/opt/cola/permits/1912367128\_1708460703.8758316/0/netty-transport-rxtx-4-1-107-final-sources-jar/io/netty/channel/rxtx/RxtxChannel.java

\* /opt/cola/permits/1912367128\_1708460703.8758316/0/netty-transport-rxtx-4-1-107-final-sources-jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java

\* /opt/cola/permits/1912367128\_1708460703.8758316/0/netty-transport-rxtx-4-1-107-final-sources-jar/io/netty/channel/rxtx/package-info.java

\* /opt/cola/permits/1912367128\_1708460703.8758316/0/netty-transport-rxtx-4-1-107-final-sources-jar/io/netty/channel/rxtx/RxtxChannelConfig.java

## 1.303 netty-codec 4.1.107.Final

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```
* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/DatagramPacketDecoder.java
*
 /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/DateFormat.java
* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/DatagramPacketEncoder.java
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\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/compression/EncoderUtil.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/compression/SnappyOptions.java

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\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/UnsupportedValueConverter.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java

\*

/opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java

\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java

\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/ProtocolDetectionResult.java

\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java

\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java

\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/ProtocolDetectionState.java

```
* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/HeadersUtils.java
```

```
*
```

```
/opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
```

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* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/META-INF/native-
image/io.netty.netty-codec/native-image.properties
```

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```

```
*/
```

```
/**
```

```
* A decoder that splits the received { @link ByteBuf}s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
```

```
*
```

```
<p>
```

```
* { @link LengthFieldBasedFrameDecoder } has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
```

```
*
```

```
* <h3>2 bytes length field at offset 0, do not strip header</h3>
```

```
*
```

```
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
```

\* that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.

```
* <pre>
* <b>lengthFieldOffset</b> = <b>0</b>
* <b>lengthFieldLength</b> = <b>2</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content
* |---->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>
```

\* <h3>2 bytes length field at offset 0, strip header</h3>

\* Because we can get the length of the content by calling { @link ByteBuffer#readableBytes() }, you might want to strip the length field by specifying <code>initialBytesToStrip</code>. In this example, we specified <code>2</code>, that is same with the length of the length field, to strip the first two bytes.

```
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (12 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
```

\* <h3>2 bytes length field at offset 0, do not strip header, the length field represents the length of the whole message</h3>

\* In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero <code>lengthAdjustment</code>. Because the length value in this example message is always greater than the body length by <code>2</code>, we specify <code>-2</code> as <code>lengthAdjustment</code> for compensation.

```
* <pre>
```

```

* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
* +-----+-----+-----+-----+
* | Length | Actual Content |-----| Length | Actual
  Content |
* | 0x000E | "HELLO, WORLD" |   | 0x000E | "HELLO, WORLD" |
* +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |-----| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |
  | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |-----| Length | Header 1 | Actual Content |

```

```
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | | 0x00000C | 0xCAFE | "HELLO,
WORLD" |
```

```
* +-----+-----+-----+ +-----+-----+-----+
* </pre>
```

\* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,  
\* strip the first header field and the length field</h3>

\* This is a combination of all the examples above. There are the prepended  
\* header before the length field and the extra header after the length field.  
\* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra  
\* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero  
\* <tt>initialBytesToStrip</tt> to strip the length field and the prepended  
\* header from the frame. If you don't want to strip the prepended header, you  
\* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.

```
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
LEN)
```

```
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
```

\* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,  
\* strip the first header field and the length field, the length field  
\* represents the length of the whole message</h3>

\* Let's give another twist to the previous example. The only difference from  
\* the previous example is that the length field represents the length of the  
\* whole message instead of the message body, just like the third example.  
\* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.  
\* Please note that we don't need to take the length of HDR2 into account  
\* because  
the length field already includes the whole header length.

```
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
```

```
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
```

```

* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+-----+-----+-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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```

Found in path(s):

- \* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Snappy.java
- \* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/package-info.java
- \* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java
- \*
- /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
- \* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
- \* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java
- \* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
- \* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java
- \* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
- \*
- /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
- \* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java
- \* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
- \* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
- \* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java
- \* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/string/package-info.java
- \* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/DecoderException.java
- \* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/xml/package-info.java
- \*
- /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/CodecException.java
- \* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/LineBasedFrameDecoder.java
- \* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java
- \* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
- \* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-

jar/io/netty/handler/codec/serialization/ClassResolver.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/ReplayingDecoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java  
\*  
/opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/ByteToMessageDecoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/base64/package-info.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/UnsupportedMessageTypeException.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/serialization/ClassResolvers.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/protobuf/package-info.java  
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jar/io/netty/handler/codec/string/StringDecoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/serialization/ObjectDecoder.java  
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/opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/serialization/SoftReferenceMap.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/compression/ZlibWrapper.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/compression/package-info.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/ByteToMessageCodec.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/Delimiters.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java  
\*  
/opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/compression/JdkZlibEncoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java

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/opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java  
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/opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/DecoderResult.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/EncoderException.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/MessageAggregator.java  
\*  
/opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java  
\*  
/opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java

\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/bytes/package-info.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java  
\*

/opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/serialization/package-info.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java  
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\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Lz4XXHash32.java

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* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/ValueConverter.java
*
/opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/DefaultHeadersImpl.java
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* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
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jar/io/netty/handler/codec/Headers.java

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\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java

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/opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java

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\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java  
\*  
/opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java  
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\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java  
\*  
/opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/FastLz.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java  
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\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Crc32.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java  
\*

```
/opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
*
/opt/cola/permits/1912366828_1708460250.5215762/0/netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
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/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert
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* Base64 Encoder/Decoder</a>.
*/
```

Found in path(s):

\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/base64/Base64Dialect.java

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/\*\*

\* Utility class for {@link ByteBuf} that encodes and decodes to and from

\* [Base64](https://en.wikipedia.org/wiki/Base64) notation.

\* <p>

\* The encoding and decoding algorithm in this class has been derived from

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\* [Base64 Encoder/Decoder](#).

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jar/io/netty/handler/codec/compression/BrotliOptions.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/compression/BrotliDecoder.java  
\*  
/opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/compression/DeflateOptions.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/compression/Zstd.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/compression/ZstdConstants.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/compression/ZstdEncoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/compression/Brotli.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/compression/CompressionOptions.java  
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jar/io/netty/handler/codec/compression/GzipOptions.java  
\*  
/opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/compression/StandardCompressionOptions.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/compression/BrotliEncoder.java  
\* /opt/cola/permits/1912366828\_1708460250.5215762/0/netty-codec-4-1-107-final-sources-  
jar/io/netty/handler/codec/compression/ZstdOptions.java

## 1.304 netty-codec-smtp 4.1.107.Final

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  - \* /opt/cola/permits/1912366855\_1708460262.8286393/0/netty-codec-smtp-4-1-107-final-sources-jar/io/netty/handler/codec/smtp/SmtRequest.java
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  - \* /opt/cola/permits/1912366855\_1708460262.8286393/0/netty-codec-smtp-4-1-107-final-sources-jar/io/netty/handler/codec/smtp/DefaultLastSmtContent.java
  - \* /opt/cola/permits/1912366855\_1708460262.8286393/0/netty-codec-smtp-4-1-107-final-sources-jar/io/netty/handler/codec/smtp/SmtUtils.java
  - \* /opt/cola/permits/1912366855\_1708460262.8286393/0/netty-codec-smtp-4-1-107-final-sources-jar/io/netty/handler/codec/smtp/package-info.java
  - \* /opt/cola/permits/1912366855\_1708460262.8286393/0/netty-codec-smtp-4-1-107-final-sources-jar/io/netty/handler/codec/smtp/LastSmtContent.java
  - \* /opt/cola/permits/1912366855\_1708460262.8286393/0/netty-codec-smtp-4-1-107-final-sources-jar/io/netty/handler/codec/smtp/DefaultSmtContent.java
  - \* /opt/cola/permits/1912366855\_1708460262.8286393/0/netty-codec-smtp-4-1-107-final-sources-jar/io/netty/handler/codec/smtp/SmtRequestEncoder.java
  - \*
  - /opt/cola/permits/1912366855\_1708460262.8286393/0/netty-codec-smtp-4-1-107-final-sources-jar/io/netty/handler/codec/smtp/SmtRequests.java
  - \* /opt/cola/permits/1912366855\_1708460262.8286393/0/netty-codec-smtp-4-1-107-final-sources-jar/io/netty/handler/codec/smtp/DefaultSmtResponse.java
  - \* /opt/cola/permits/1912366855\_1708460262.8286393/0/netty-codec-smtp-4-1-107-final-sources-jar/io/netty/handler/codec/smtp/SmtResponseDecoder.java
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## 1.305 netty-codec-dns 4.1.107.Final

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- \* /opt/cola/permits/1912366971\_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DnsQuestion.java
- \* /opt/cola/permits/1912366971\_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DnsRecordType.java
- \*
- /opt/cola/permits/1912366971\_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponseDecoder.java
- \* /opt/cola/permits/1912366971\_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DnsSection.java
- \* /opt/cola/permits/1912366971\_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQuery.java
- \* /opt/cola/permits/1912366971\_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DnsMessage.java
- \* /opt/cola/permits/1912366971\_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DnsResponseCode.java
- \* /opt/cola/permits/1912366971\_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DnsRecordDecoder.java
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- \* /opt/cola/permits/1912366971\_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsResponse.java
- \* /opt/cola/permits/1912366971\_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DnsResponse.java
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- \* /opt/cola/permits/1912366971\_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java
- \* /opt/cola/permits/1912366971\_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRawRecord.java
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- /opt/cola/permits/1912366971\_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryDecoder.java
- \* /opt/cola/permits/1912366971\_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuestion.java
- \* /opt/cola/permits/1912366971\_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-

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jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java
* /opt/cola/permits/1912366971_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-
jar/io/netty/handler/codec/dns/DnsMessageUtil.java
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jar/io/netty/handler/codec/dns/DefaultDnsQuery.java
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/opt/cola/permits/1912366971_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-
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jar/io/netty/handler/codec/dns/package-info.java
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* /opt/cola/permits/1912366971_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-
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*
/opt/cola/permits/1912366971_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-
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*
/opt/cola/permits/1912366971_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-
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* /opt/cola/permits/1912366971_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-
jar/io/netty/handler/codec/dns/DnsResponseDecoder.java
* /opt/cola/permits/1912366971_1708460277.658924/0/netty-codec-dns-4-1-107-final-sources-
jar/io/netty/handler/codec/dns/DnsQueryEncoder.java
```

## 1.306 netty-codec-http 4.1.107.Final

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jar/io/netty/handler/codec/http/multipart/FileUploadUtil.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java
*
/opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/HttpServerKeepAliveHandler.java
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jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java
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jar/io/netty/handler/codec/http/multipart/AbstractMixedHttpData.java
```

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/TooLongHttpLineException.java

\*

/opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/HttpHeaderValidationUtil.java

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/TooLongHttpHeaderException.java

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\*

/opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/HttpHeadersFactory.java

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/opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketScheme.java

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- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamStatus.java
- \*
- /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/DefaultFullHttpRequest.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/spdy/SpdyCodecUtil.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/spdy/SpdyVersion.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpCodec.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionHandler.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java
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- /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeadersFrame.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandler.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyDataFrame.java
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- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java

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/opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/cors/package-info.java  
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\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyGoAwayFrame.java  
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\*  
/opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketClientCompressionHandler.java  
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\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketServerCompressionHandler.java

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jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateEncoder.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/package-info.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionUtil.java
*
/opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockDecoder.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateEncoder.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandler.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/HttpMessageUtil.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/HttpStatusClass.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java
*
/opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrameEncoder.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtension.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateEncoder.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/HttpHeaderValues.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/spdy/SpdyProtocolException.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateServerExtensionHandshaker.
java
*
/opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/websocketx/Utf8FrameValidator.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandshaker.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateClientExtensionHandshaker.j
ava
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/HttpHeaderNames.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionDecoder.java
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/opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameServerExtensionHandshaker.java  
\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionEncoder.java  
\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/ClientCookieEncoder.java  
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 jar/io/netty/handler/codec/http/multipart/HttpPostRequestEncoder.java  
 \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-  
 jar/io/netty/handler/codec/http/HttpRequestEncoder.java  
 \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-  
 jar/io/netty/handler/codec/rtsp/package-info.java  
 \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-  
 jar/io/netty/handler/codec/http/multipart/MixedFileUpload.java  
 \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-  
 jar/io/netty/handler/codec/http/websocketx/WebSocketUtil.java

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/DefaultHttpHeaders.java

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostRequestDecoder.java

\*

/opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/CookieDecoder.java

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/rtsp/RtspRequestEncoder.java

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/QueryStringEncoder.java

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrame.java

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/HttpContentEncoder.java

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/DefaultHttpMessage.java

\*

/opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker13.java

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/HttpMethod.java

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/HttpServerCodec.java

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/QueryStringDecoder.java

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker08.java

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/DefaultLastHttpContent.java

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseEncoder.java

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/opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/HttpContentCompressor.java

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\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/multipart/InternalAttribute.java

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakerFactory.java

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/rtsp/RtspVersions.java

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/HttpRequestDecoder.java

\*

/opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/websocketx/PongWebSocketFrame.java

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/DefaultHttpResponse.java  
\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/Cookie.java  
\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/rtsp/RtspMethods.java  
\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/spdy/package-info.java  
\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractHttpData.java  
\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/rtsp/RtspObjectDecoder.java  
\*

/opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/HttpHeaderDateFormat.java  
\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/HttpContent.java  
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\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/HttpConstants.java  
\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/multipart/MemoryAttribute.java  
\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/HttpObjectAggregator.java  
\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/multipart/MemoryFileUpload.java  
\*

/opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaders.java

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\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakeException.java

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/opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/multipart/DeleteFileOnExitHook.java

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\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/HttpServerUpgradeHandler.java

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\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io.netty.handler.codec/http.websocketx/WebSocket07FrameEncoder.java

\* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io.netty.handler.codec/http.websocketx/WebSocket08FrameEncoder.java

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- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/cookie/Cookie.java
- \*
- /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/cookie/CookieEncoder.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/HttpExpectationFailedEvent.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/HttpScheme.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/HttpUtil.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/cookie/CookieUtil.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/CookieUtil.java
- \*
- /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/EmptyHttpHeaders.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/CombinedHttpHeaders.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/cookie/package-info.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/cookie/CookieDecoder.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/rtsp/RtspEncoder.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/rtsp/RtspDecoder.java
- \*
- /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-jar/io/netty/handler/codec/http/cookie/DefaultCookie.java
- \* /opt/cola/permits/1912367052\_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-

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jar/io/netty/handler/codec/http/cookie/ServerCookieEncoder.java
* /opt/cola/permits/1912367052_1708460289.0733008/0/netty-codec-http-4-1-107-final-sources-
jar/io/netty/handler/codec/http/cookie/ClientCookieDecoder.java
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# 1.307 netty-handler-ssl-ocsp 4.1.107.Final

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jar/io/netty/handler/ssl/ocsp/IoTransport.java
* /opt/cola/permits/1912367045_1708460215.600761/0/netty-handler-ssl-ocsp-4-1-107-final-sources-
jar/io/netty/handler/ssl/ocsp/OcspResponse.java
*
/opt/cola/permits/1912367045_1708460215.600761/0/netty-handler-ssl-ocsp-4-1-107-final-sources-
jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/cola/permits/1912367045_1708460215.600761/0/netty-handler-ssl-ocsp-4-1-107-final-sources-
jar/io/netty/handler/ssl/ocsp/OcspHttpHandler.java
* /opt/cola/permits/1912367045_1708460215.600761/0/netty-handler-ssl-ocsp-4-1-107-final-sources-
jar/io/netty/handler/ssl/ocsp/OcspServerCertificateValidator.java
* /opt/cola/permits/1912367045_1708460215.600761/0/netty-handler-ssl-ocsp-4-1-107-final-sources-
jar/io/netty/handler/ssl/ocsp/OcspClient.java
* /opt/cola/permits/1912367045_1708460215.600761/0/netty-handler-ssl-ocsp-4-1-107-final-sources-
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jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java  
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/opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/internal/ObjectPool.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/internal/Hidden.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/internal/svm/package-info.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/internal/svm/CleanerJava6Substitution.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/internal/ReferenceCountUpdater.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/internal/ThreadExecutorMap.java

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jar/io/netty/util/collection/ShortObjectHashMap.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/collection/CharObjectHashMap.java
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/opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/collection/ByteObjectMap.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/collection/CharObjectMap.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/internal/ObjectUtil.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/collection/LongObjectHashMap.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/collection/ShortCollections.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/collection/LongCollections.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/collection/IntObjectHashMap.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
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jar/io/netty/util/collection/IntCollections.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/collection/ByteCollections.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/collection/CharCollections.java
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io.netty.util.internal.Hidden\$NettyBlockHoundIntegration

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\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandler.java

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\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java  
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\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java  
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\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java  
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/opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/TimerTask.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/GlobalEventExecutor.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/HashedWheelTimer.java  
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\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/BlockingOperationException.java  
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\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/SucceededFuture.java  
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\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/EventExecutorGroup.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/AttributeKey.java  
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/opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/FailedFuture.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/internal/logging/InternalLoggerFactory.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/AttributeMap.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/internal/PlatformDependent.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-

jar/io/netty/util/internal/logging/CommonsLoggerFactory.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/internal/logging/Slf4JLogger.java  
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jar/io/netty/util/Constant.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java  
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jar/io/netty/util/internal/logging/JdkLoggerFactory.java  
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jar/io/netty/util/Timer.java  
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jar/io/netty/util/Attribute.java  
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jar/io/netty/util/CharsetUtil.java  
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jar/io/netty/util/internal/logging/AbstractInternalLogger.java  
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jar/io/netty/util/AbstractConstant.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/IllegalReferenceCountException.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/internal/StringUtil.java  
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/opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/HashingStrategy.java

\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/internal/DefaultPriorityQueue.java

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\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/internal/PriorityQueueNode.java

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jar/io/netty/util/internal/logging/Log4JLogger.java

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\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
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\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/internal/PendingWrite.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/concurrent/PromiseTask.java  
\*  
/opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/internal/NoOpTypeParameterMatcher.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/internal/ConcurrentSet.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/concurrent/AbstractFuture.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/ResourceLeak.java

```

* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/concurrent/ScheduledFuture.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/concurrent/ScheduledFutureTask.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/internal/PlatformDependent0.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/Version.java
*
/opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/concurrent/GenericFutureListener.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/Recycler.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/ResourceLeakDetector.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/internal/RecyclableArrayList.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/AbstractReferenceCounted.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/concurrent/Future.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/concurrent/DefaultThreadFactory.java
*
/opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/concurrent/AbstractEventExecutor.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java
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```

```

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
<modelVersion>4.0.0</modelVersion>

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<artifactId>jctools-core</artifactId>
<groupId>org.jctools</groupId>
<version>3.1.0</version>
<name>Java Concurrency Tools Core Library</name>
<description>Java Concurrency Tools Core Library</description>
<packaging>bundle</packaging>

```

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<dependencies>
<dependency>
<groupId>org.hamcrest</groupId>
<artifactId>hamcrest-all</artifactId>
<version>${hamcrest.version}</version>
<scope>test</scope>
</dependency>

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<dependency>
  <groupId>junit</groupId>
  <artifactId>junit</artifactId>
  <version>${junit.version}</version>
  <scope>test</scope>
</dependency>

<dependency>
  <groupId>com.google.guava</groupId>
  <artifactId>guava-testlib</artifactId>
  <version>${guava-testlib.version}</version>
  <scope>test</scope>
</dependency>
</dependencies>
<build>
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    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-surefire-plugin</artifactId>
      <version>3.0.0-M3</version>
      <configuration>
        <includes>
          <include>*</include>
        </includes>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.felix</groupId>
      <artifactId>maven-bundle-plugin</artifactId>
      <version>4.2.1</version>
      <extensions>>true</extensions>
      <configuration>
        <instructions>
          <Import-Package>sun.misc;resolution:=optional</Import-Package>
        </instructions>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-source-plugin</artifactId>
      <version>3.2.0</version>
      <executions>
        <execution>
          <id>attach-sources</id>
          <phase>verify</phase>
          <goals>
            <goal>jar-no-fork</goal>
          </goals>
        </execution>
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  </plugins>
</build>

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    </goals>
  </execution>
</executions>
</plugin>
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  <artifactId>maven-javadoc-plugin</artifactId>
  <version>3.1.1</version>
  <configuration>
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      <additionalOption>-Xdoclint:none</additionalOption>
    </additionalOptions>
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  </configuration>
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</plugins>
</build>

<distributionManagement>
  <repository>
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    <name>jctools-jctools</name>
    <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>
  </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
  <license>
    <name>Apache
    License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
  </license>
</licenses>

<scm>
  <url>https://github.com/JCTools/JCTools</url>

```

```
<connection>scm:git:https://github.com/JCTools/JCTools</connection>
<tag>HEAD</tag>
</scm>

<developers>
<developer>
<url>https://github.com/nitsanw</url>
</developer>
<developer>
<url>https://github.com/mjpt777</url>
</developer>
<developer>
<url>https://github.com/RichardWarburton</url>
</developer>
<developer>
<url>https://github.com/kay</url>
</developer>
<developer>
<url>https://github.com/franz1981</url>
</developer>
</developers>

<prerequisites>
<maven>3.5.0</maven>
</prerequisites>

<properties>
<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
<java.version>1.6</java.version>
<java.test.version>1.8</java.test.version>

<maven.compiler.source>${java.version}</maven.compiler.source>
<maven.compiler.target>${java.version}</maven.compiler.target>
<maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
<maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

<hamcrest.version>1.3</hamcrest.version>
<junit.version>4.12</junit.version>
<guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>
```

Found

in path(s):

\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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 */
```

Found in path(s):

```
*/opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/NetUtilInitializations.java
*/opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/DomainWildcardMappingBuilder.java
*/opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/NetUtilSubstitutions.java
```

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 */
```

Found in path(s):

```
*/opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/internal/SuppressJava6Requirement.java
```

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\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/concurrent/FastThreadLocalRunnable.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/internal/Cleaner.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/internal/CleanerJava9.java

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\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/ByteProcessor.java  
\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-  
jar/io/netty/util/internal/MathUtil.java

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-->

Found in path(s):

\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/META-INF/maven/io.netty/netty-common/pom.xml

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Found in path(s):

\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/META-INF/native-image/io.netty/netty-common/native-image.properties

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\* /opt/cola/permits/1912367082\_1708460323.4877825/0/netty-common-4-1-107-final-sources-jar/io/netty/util/SuppressForbidden.java

```
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/internal/ReflectionUtil.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/internal/PriorityQueue.java
*
/opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/internal/LongAdderCounter.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/internal/ObjectCleaner.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/NettyRuntime.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/UncheckedBooleanSupplier.java
* /opt/cola/permits/1912367082_1708460323.4877825/0/netty-common-4-1-107-final-sources-
jar/io/netty/util/internal/EmptyPriorityQueue.java
```

## 1.309 netty-handler 4.1.107.Final

### 1.309.1 Available under license :

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*/
```

Found in path(s):

```
* /opt/cola/permits/1912367142_1708460254.3605444/0/netty-handler-4-1-107-final-sources-
jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/1912367142_1708460254.3605444/0/netty-handler-4-1-107-final-sources-
jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1912367142_1708460254.3605444/0/netty-handler-4-1-107-final-sources-
jar/io/netty/handler/flush/FlushConsolidationHandler.java
*
```

/opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/PemEncoded.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java  
\*

/opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/flush/package-info.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/PemValue.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/flow/package-info.java

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\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java

\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java  
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/opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslEngine.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java  
\*  
/opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslContext.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/SslProvider.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java  
\*  
/opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java  
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\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java  
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\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/SslUtils.java  
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\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java  
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\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java  
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\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java  
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jar/io/netty/handler/ssl/EnhancingX509ExtendedTrustManager.java

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jar/io/netty/handler/ssl/OptionalSslHandler.java

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jar/io/netty/handler/ssl/JdkAlpnSslEngine.java

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jar/io/netty/handler/ssl/AbstractSniHandler.java

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jar/io/netty/handler/ssl/JdkAlpnSslUtils.java

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jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java

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jar/io/netty/handler/ssl/ocsp/package-info.java

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jar/io/netty/handler/ssl/SslClientHelloHandler.java

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jar/io/netty/handler/ssl/SslCloseCompletionEvent.java

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\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java  
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\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/logging/LogLevel.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java  
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jar/io/netty/handler/ssl/Ciphers.java
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jar/io/netty/handler/ssl/AsyncRunnable.java
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jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
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/opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-  
jar/io/netty/handler/ssl/OpenSslPrivateKey.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-  
jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-  
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-  
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-  
jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-  
jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-

jar/io/netty/handler/ssl/ExtendedOpenSslSession.java

\*

/opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-

jar/io/netty/handler/ssl/OpenSslSession.java

\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-

jar/io/netty/handler/ssl/OpenSslKeyMaterial.java

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\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-

jar/io/netty/handler/pcap/PcapWriter.java

\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-

jar/io/netty/handler/pcap/package-info.java

\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-

jar/io/netty/handler/pcap/IPPacket.java

\*

/opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-

jar/io/netty/handler/pcap/PcapWriteHandler.java

\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-

jar/io/netty/handler/pcap/TCPpacket.java

\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-

jar/io/netty/handler/pcap/EthernetPacket.java

\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-

jar/io/netty/handler/pcap/UDPPacket.java

\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-

jar/io/netty/handler/pcap/PcapHeaders.java

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\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java  
\*  
/opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/traffic/package-info.java  
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```
* /opt/cola/permits/1912367142_1708460254.3605444/0/netty-handler-4-1-107-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java  
* /opt/cola/permits/1912367142_1708460254.3605444/0/netty-handler-4-1-107-final-sources-  
jar/io/netty/handler/ssl/ClientAuth.java  
*  
/opt/cola/permits/1912367142_1708460254.3605444/0/netty-handler-4-1-107-final-sources-  
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java  
* /opt/cola/permits/1912367142_1708460254.3605444/0/netty-handler-4-1-107-final-sources-  
jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java  
* /opt/cola/permits/1912367142_1708460254.3605444/0/netty-handler-4-1-107-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolNames.java  
* /opt/cola/permits/1912367142_1708460254.3605444/0/netty-handler-4-1-107-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java  
* /opt/cola/permits/1912367142_1708460254.3605444/0/netty-handler-4-1-107-final-sources-  
jar/io/netty/handler/ssl/SslContextBuilder.java  
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\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/util/SelfSignedCertificate.java

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\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java

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\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java

\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java

\*

/opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilter.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java  
\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java  
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\* /opt/cola/permits/1912367142\_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateCompressionConfig.java  
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```
* /opt/cola/permits/1912367142_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java
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* /opt/cola/permits/1912367142_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/META-INF/native-image/io.netty/netty-handler/native-image.properties
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* /opt/cola/permits/1912367142_1708460254.3605444/0/netty-handler-4-1-107-final-sources-jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java
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## 1.310 netty-codec-stomp 4.1.107.Final

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\* /opt/cola/permits/1912367099\_1708460233.4534025/0/netty-codec-stomp-4-1-107-final-sources-jar/io/netty/handler/codec/stomp/StompHeadersSubframe.java  
\* /opt/cola/permits/1912367099\_1708460233.4534025/0/netty-codec-stomp-4-1-107-final-sources-jar/io/netty/handler/codec/stomp/StompSubframeEncoder.java  
\*  
/opt/cola/permits/1912367099\_1708460233.4534025/0/netty-codec-stomp-4-1-107-final-sources-jar/io/netty/handler/codec/stomp/DefaultStompContentSubframe.java  
\* /opt/cola/permits/1912367099\_1708460233.4534025/0/netty-codec-stomp-4-1-107-final-sources-jar/io/netty/handler/codec/stomp/DefaultStompFrame.java  
\* /opt/cola/permits/1912367099\_1708460233.4534025/0/netty-codec-stomp-4-1-107-final-sources-jar/io/netty/handler/codec/stomp/package-info.java  
\* /opt/cola/permits/1912367099\_1708460233.4534025/0/netty-codec-stomp-4-1-107-final-sources-jar/io/netty/handler/codec/stomp/StompFrame.java  
\* /opt/cola/permits/1912367099\_1708460233.4534025/0/netty-codec-stomp-4-1-107-final-sources-jar/io/netty/handler/codec/stomp/StompHeaders.java  
\* /opt/cola/permits/1912367099\_1708460233.4534025/0/netty-codec-stomp-4-1-107-final-sources-jar/io/netty/handler/codec/stomp/DefaultLastStompContentSubframe.java  
\* /opt/cola/permits/1912367099\_1708460233.4534025/0/netty-codec-stomp-4-1-107-final-sources-jar/io/netty/handler/codec/stomp/StompContentSubframe.java  
\*  
/opt/cola/permits/1912367099\_1708460233.4534025/0/netty-codec-stomp-4-1-107-final-sources-jar/io/netty/handler/codec/stomp/StompSubframeAggregator.java  
\* /opt/cola/permits/1912367099\_1708460233.4534025/0/netty-codec-stomp-4-1-107-final-sources-jar/io/netty/handler/codec/stomp/StompSubframeDecoder.java  
\* /opt/cola/permits/1912367099\_1708460233.4534025/0/netty-codec-stomp-4-1-107-final-sources-jar/io/netty/handler/codec/stomp/LastStompContentSubframe.java  
\* /opt/cola/permits/1912367099\_1708460233.4534025/0/netty-codec-stomp-4-1-107-final-sources-jar/io/netty/handler/codec/stomp/StompCommand.java  
\* /opt/cola/permits/1912367099\_1708460233.4534025/0/netty-codec-stomp-4-1-107-final-sources-jar/io/netty/handler/codec/stomp/DefaultStompHeaders.java  
\* /opt/cola/permits/1912367099\_1708460233.4534025/0/netty-codec-stomp-4-1-107-final-sources-jar/io/netty/handler/codec/stomp/StompSubframe.java  
\* /opt/cola/permits/1912367099\_1708460233.4534025/0/netty-codec-stomp-4-1-107-final-sources-jar/io/netty/handler/codec/stomp/DefaultStompHeadersSubframe.java  
\*  
/opt/cola/permits/1912367099\_1708460233.4534025/0/netty-codec-stomp-4-1-107-final-sources-jar/io/netty/handler/codec/stomp/StompConstants.java

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## 1.311 netty-transport-classes-kqueue

### 4.1.107.Final

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\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/KQueueChannelConfig.java

\*

/opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/KQueueSocketChannelConfig.java

\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/KQueueServerChannelConfig.java

\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/KQueueServerSocketChannelConfig.java

\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java

\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/KQueueDatagramChannel.java

\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/KQueueEventLoop.java

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\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/AcceptFilter.java

\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueChannel.java

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\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/NativeLongArray.java  
\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/KQueue.java  
\*  
/opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java  
\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/package-info.java  
\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/KQueueEventLoopGroup.java  
\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/KQueueChannelOption.java  
\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/Native.java  
\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/KQueueRecvByteAllocatorHandle.java  
\*  
/opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/BsdSocket.java  
\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/KQueueDomainSocketChannelConfig.java  
\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/KQueueStaticallyReferencedJniMethods.java  
\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java  
\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueServerChannel.java  
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Found in path(s):

\* /opt/cola/permits/1912366994\_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-

```
jar/io/netty/channel/kqueue/KQueueDomainDatagramChannelConfig.java
* /opt/cola/permits/1912366994_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-
jar/io/netty/channel/kqueue/KQueueDomainDatagramChannel.java
*
/opt/cola/permits/1912366994_1708460178.1056507/0/netty-transport-classes-kqueue-4-1-107-final-sources-
jar/io/netty/channel/kqueue/AbstractKQueueDatagramChannel.java
```

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```

## 1.313 protocol-buffers---google's-data-interchange-format 3.19.4

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```
Manifest-Version: 1.0
Automatic-Module-Name: com.google.protobuf
Bnd-LastModified: 1643389670477
Build-Jdk: 1.8.0_181-google-v7
Built-By: acozzette
Bundle-Description: Core Protocol Buffers library. Protocol Buffers are
a way of encoding structured data in an efficient yet extensible format.
Bundle-DocURL: https://developers.google.com/protocol-buffers/
Bundle-License: https://opensource.org/licenses/BSD-3-Clause
Bundle-ManifestVersion: 2
```

Bundle-Name: Protocol Buffers [Core]  
Bundle-SymbolicName: com.google.protobuf  
Bundle-Version: 3.19.4  
Created-By: Apache Maven Bundle Plugin  
Export-Package: com.google.protobuf;version="3.19.4"  
Import-Package: sun.misc;resolution:=optional,com.google.protobuf;version="[3.19,4)"  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"  
Tool: Bnd-3.0.0.201509101326

Found in path(s):

\* /opt/cola/permits/1920894483\_1709284980.8622758/0/jar-files-156-zip/protobuf-java-3-19-4-jar/META-INF/MANIFEST.MF

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\* /opt/cola/permits/1920894483\_1709284980.8622758/0/jar-files-156-zip/protobuf-java-3-19-4-jar/google/protobuf/any.proto  
\* /opt/cola/permits/1920894483\_1709284980.8622758/0/jar-files-156-zip/protobuf-java-3-19-4-jar/google/protobuf/timestamp.proto  
\* /opt/cola/permits/1920894483\_1709284980.8622758/0/jar-files-156-zip/protobuf-java-3-19-4-jar/google/protobuf/empty.proto  
\*  
/opt/cola/permits/1920894483\_1709284980.8622758/0/jar-files-156-zip/protobuf-java-3-19-4-jar/google/protobuf/wrappers.proto  
\* /opt/cola/permits/1920894483\_1709284980.8622758/0/jar-files-156-zip/protobuf-java-3-19-4-jar/google/protobuf/struct.proto  
\* /opt/cola/permits/1920894483\_1709284980.8622758/0/jar-files-156-zip/protobuf-java-3-19-4-jar/google/protobuf/duration.proto  
\* /opt/cola/permits/1920894483\_1709284980.8622758/0/jar-files-156-zip/protobuf-java-3-19-4-jar/google/protobuf/api.proto  
\* /opt/cola/permits/1920894483\_1709284980.8622758/0/jar-files-156-zip/protobuf-java-3-19-4-jar/google/protobuf/field\_mask.proto  
\* /opt/cola/permits/1920894483\_1709284980.8622758/0/jar-files-156-zip/protobuf-java-3-19-4-jar/google/protobuf/compiler/plugin.proto  
\* /opt/cola/permits/1920894483\_1709284980.8622758/0/jar-files-156-zip/protobuf-java-3-19-4-jar/google/protobuf/descriptor.proto

\*

/opt/cola/permits/1920894483\_1709284980.8622758/0/jar-files-156-zip/protobuf-java-3-19-4-jar/google/protobuf/type.proto

\* /opt/cola/permits/1920894483\_1709284980.8622758/0/jar-files-156-zip/protobuf-java-3-19-4-jar/google/protobuf/source\_context.proto

## 1.314 ccapiserver.exe 4.1-prerelease

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## 1.316 elasticsearch-lz4 8.8.1

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# 1.318 elasticsearch-logging 8.8.1

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# 1.320 elasticsearch-preallocate 8.8.1

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# 1.321 elasticsearch-grok 8.8.1

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# 1.323 elasticsearch-core 8.8.1

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# 1.324 elasticsearch-geo 8.8.1

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# 1.325 elasticsearch-secure-sm 8.8.1

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e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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# 1.326 elasticsearch-cli 8.8.1

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# 1.327 elasticsearch-plugin-classloader 8.8.1

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# 1.328 elasticsearch-plugin-analysis-api 8.8.1

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## 1.329 elasticsearch-logging 8.8.1

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## 1.333 jetty-util-ajax 9.4.54.v20240208

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

## MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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## Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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## Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

# 1.334 jetty-security 9.4.54.v20240208

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The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

## Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----

## OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

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org.apache.taglibs:taglibs-standard-impl

-----

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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- \* java.sun.security.ssl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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Eclipse

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

## MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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## Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

# 1.337 jetty-client 9.4.54.v20240208

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The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

## Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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- \* javax.websocket:javax.websocket-api

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- \* java.sun.security.ssl

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The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.339 jetty-webapp 9.4.54.v20240208

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The following artifacts are EPL and ASL2.  
\* org.eclipse.jetty.orbit:javax.security.auth.message

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\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

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org.ow2.asm:asm-commons

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org.apache.taglibs:taglibs-standard-spec

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org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
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Eclipse

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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## Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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## MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.341 jetty 9.4.54.v20240208

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Eclipse

The following artifacts are EPL.

- \* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

- \* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javax.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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## 1.342 jetty-util 9.4.54.v20240208

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\* javax.servlet:javax.servlet-api

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\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

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org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Eclipse

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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## Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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## MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.344 jetty-xml 9.4.54.v20240208

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The following artifacts are EPL and ASL2.

- \* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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Eclipse

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

## Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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## MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.347 visual-studio-runtime 8

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7/LICENSE-ZLIB.md"
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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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{
  "type": "array",
  "items": {
    "oneOf": [
      {
        "type": "object",
        "required": [
          "name",
          "prependLicenseText"
        ],
        "properties": {
          "name": {
            "type": "string",
            "description": "The name of the dependency"
          },
          "fullLicenseText": {
            "type": "array",
            "description": "The complete license text of the dependency",
            "items": {
              "type": "string"
            }
          }
        }
      },
    ]
  },
}
```

```

"prependLicenseText": {
  "type": "array",
  "description": "A piece of text to prepend to the auto-detected license text of the dependency",
  "items": {
    "type": "string"
  }
}
},
{
  "type": "object",
  "required": [
    "name",
    "fullLicenseText"
  ],
  "properties": {
    "name": {
      "type": "string",
      "description": "The name of the dependency"
    },
    "fullLicenseText": {
      "type": "array",
      "description": "The complete license text of the dependency",
      "items": {
        "type":
"string"
      }
    },
    "prependLicenseText": {
      "type": "array",
      "description": "A piece of text to prepend to the auto-detected license text of the dependency",
      "items": {
        "type": "string"
      }
    }
  },
  "required": [
    "name",
    "fullLicenseTextUri"
  ],
  "properties": {
    "name": {
      "type": "string",
      "description": "The name of the dependency"
    },

```

```
"fullLicenseTextUri": {
  "type": "string",
  "description": "The URI to the license text of this repository",
  "format": "uri"
},
"prependLicenseText": {
  "type": "array",
  "description": "A piece of text to prepend to the auto-detected license text of the dependency",
  "items": {
    "type": "string"
  }
}
]
}
```

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atom/language-coffee-script  
0.49.3 - MIT  
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atom/language-java 0.32.1 - MIT  
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atom/language-xml 0.35.2 - MIT  
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seti-ui 0.1.0

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vscode-logfile-highlighter 2.15.0 - MIT  
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vscode-swift 0.0.1 - MIT  
<https://github.com/owensd/vscode-swift>

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vscode-win32-app-container-tokens

<https://github.com/microsoft/vscode-win32-app-container-tokens>

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Web Background Synchronization - Apache2  
<https://github.com/WICG/background-sync>

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# 1.348 logback-access 1.2.13

## 1.348.1 Available under license :

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```

```
# This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender
#
# It is intended for HSQL databases.
```

```
DROP TABLE access_event_header IF EXISTS;
DROP TABLE access_event IF EXISTS;
```

```
CREATE TABLE access_event (
  timestmp BIGINT NOT NULL,
  requestURI VARCHAR(254),
  requestURL VARCHAR(254),
  remoteHost VARCHAR(254),
  remoteUser VARCHAR(254),
  remoteAddr VARCHAR(254),
  protocol VARCHAR(254),
  method VARCHAR(254),
  serverName VARCHAR(254),
  postContent VARCHAR(254),
  event_id BIGINT NOT NULL IDENTITY);
```

```
CREATE TABLE access_event_header (
  event_id BIGINT NOT NULL,
  header_key VARCHAR(254) NOT NULL,
  header_value LONGVARCHAR,
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY
(event_id) REFERENCES access_event(event_id));
```

Found in path(s):

```
* /opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/db/script/hsqldb.sql
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```

```
# This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender
#
# It is intended for IBM DB2 databases.
#
# WARNING WARNING WARNING WARNING
# =====
# This SQL script has not been tested on an actual DB2
```

# instance. It may contain errors or even invalid SQL  
# statements.

```
DROP TABLE access_event_header;  
DROP TABLE access_event;
```

```
CREATE TABLE access_event  
(  
    timestmp      BIGINT NOT NULL,  
    requestURI    VARCHAR(254),  
    requestURL    VARCHAR(254),  
    remoteHost    VARCHAR(254),  
    remoteUser    VARCHAR(254),  
    remoteAddr    VARCHAR(254),  
    protocol      VARCHAR(254),  
    method        VARCHAR(254),  
    serverName    VARCHAR(254),  
    postContent   VARCHAR(254),  
    event_id      INTEGER GENERATED ALWAYS AS IDENTITY (START WITH 1)  
);
```

```
CREATE TABLE access_event_header  
(  
    event_id      INTEGER NOT NULL,  
    header_key    VARCHAR(254) NOT NULL,  
    header_value  VARCHAR(1024),  
    PRIMARY KEY(event_id, header_key),  
    FOREIGN KEY (event_id) REFERENCES access_event(event_id)  
);
```

Found in path(s):

```
* /opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/db/script/db2.sql
```

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-- This SQL script creates the required tables by `ch.qos.logback.access.db.DBAppender`

--

-- It is intended for Oracle databases.

```
CREATE SEQUENCE access_event_id_seq MINVALUE 1 START WITH 1;
```

```

CREATE TABLE access_event
(
  timestmp      NUMBER(20) NOT NULL,
  requestURI    VARCHAR(254),
  requestURL    VARCHAR(254),
  remoteHost    VARCHAR(254),
  remoteUser    VARCHAR(254),
  remoteAddr    VARCHAR(254),
  protocol      VARCHAR(254),
  method        VARCHAR(254),
  serverName    VARCHAR(254),
  postContent   VARCHAR(254),
  event_id      NUMBER(20) PRIMARY KEY
);

-- the / suffix may or may not be needed depending on your SQL Client
--
Some SQL Clients, e.g. Squirrel SQL has trouble with the following
-- trigger creation command, while SQLPlus (the basic SQL Client which
-- ships with Oracle) has no trouble at all.

```

```

CREATE TRIGGER access_event_id_seq_trig
BEFORE INSERT ON access_event
FOR EACH ROW
BEGIN
  SELECT access_event_id_seq.NEXTVAL
  INTO   :NEW.event_id
  FROM   DUAL;
END access_event_id_seq_trig;
/

```

```

CREATE TABLE access_event_header
(
  event_id      NUMBER(20) NOT NULL,
  header_key    VARCHAR2(254) NOT NULL,
  header_value  VARCHAR2(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);

```

Found in path(s):

```

* /opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/db/script/oracle.sql

```

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```

/**

```

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Found in path(s):

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/pattern/ServerNameConverter.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/ViewStatusMessagesServlet.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/jetty/JettyModernServerAdapter.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/PatternLayoutEncoder.java  
\*  
/opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/net/server/SSLServerSocketAppender.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/net/AccessEventPreSerializationTransformer.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/html/DefaultCssBuilder.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/pattern/RequestMethodConverter.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/sift/SiftingAppender.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/pattern/ResponseContentConverter.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/filter/PeriodicStats.java  
\*  
/opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/pattern/AccessConverter.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/html/UrlCssBuilder.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/net/server/ServerSocketAppender.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/servlet/TeeFilter.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/pattern/DateConverter.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/servlet/TeeHttpServletRequest.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/filter/StatsByDay.java

\*

/opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/filter/StatsByMonth.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/servlet/Util.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/pattern/RemoteUserConverter.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/filter/StatisticalView.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/pattern/ResponseHeaderConverter.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/filter/StatisticalViewImpl.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/pattern/RemoteIPAddressConverter.java

\*

/opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/boolex/JaninoEventEvaluator.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/net/SimpleSocketServer.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/joran/action/EvaluatorAction.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/PatternLayout.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/pattern/EnsureLineSeparation.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/jetty/RequestLogImpl.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/net/SSLSocketAppender.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/spi/AccessContext.java

\*

/opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/filter/StatsByHour.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/net/SocketAppender.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/net/SMTPAppender.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/pattern/RequestParameterConverter.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/jetty/JettyServerAdapter.java

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-

jar/ch/qos/logback/access/pattern/LocalPortConverter.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/filter/StatsByWeek.java  
\*  
/opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/filter/CountingFilter.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/filter/StatsByMinute.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/pattern/RequestContentConverter.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/sift/AppenderFactoryUsingJoran.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/pattern/FullRequestConverter.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/pattern/RequestURICConverter.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/pattern/LineSeparatorConverter.java  
\*  
/opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/pattern/RemoteHostConverter.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/pattern/ContentLengthConverter.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/joran/action/ConfigurationAction.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/pattern/StatusCodeConverter.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/tomcat/TomcatServerAdapter.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/sift/SiftAction.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/pattern/RequestAttributeConverter.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/servlet/TeeHttpServletResponse.java  
\*  
/opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/net/URLEvaluator.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/pattern/NAConverter.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/jetty/RequestLogRegistry.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/spi/IAccessEvent.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/sift/SiftingJoranConfigurator.java  
\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-  
jar/ch/qos/logback/access/spi/Util.java

```

* /opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/pattern/RequestHeaderConverter.java
*
/opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/html/HTMLLayout.java
* /opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/net/SocketNode.java
* /opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/servlet/TeeServletInputStream.java
* /opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/sift/AccessEventDiscriminator.java
* /opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/pattern/LocalIPAddressConverter.java
* /opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/joran/JoranConfigurator.java
* /opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/servlet/TeeServletOutputStream.java
*
/opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/pattern/RequestProtocolConverter.java
* /opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/pattern/FullResponseConverter.java
* /opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/pattern/RequestURLConverter.java
* /opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/spi/AccessEvent.java
* /opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/tomcat/LogbackValve.java
* /opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/AccessConstants.java
* /opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/pattern/ElapsedTimeConverter.java
* /opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/spi/ServerAdapter.java
*
/opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/pattern/RequestCookieConverter.java
No license file was found, but licenses were detected in source scan.

```

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# This SQL script creates the required tables by `ch.qos.logback.classic.db.DBAppender`

#

# It is intended for PostgreSQL databases.

```
DROP TABLE access_event_exception;
DROP SEQUENCE access_event_id_seq;
DROP TABLE access_event;
```

```
CREATE SEQUENCE access_event_id_seq MINVALUE 1 START 1;
```

```
CREATE TABLE access_event
(
  timestmp      BIGINT NOT NULL,
  requestURI    VARCHAR(254),
  requestURL    VARCHAR(254),
  remoteHost    VARCHAR(254),
  remoteUser    VARCHAR(254),
  remoteAddr    VARCHAR(254),
  protocol      VARCHAR(254),
  method        VARCHAR(254),
  serverName    VARCHAR(254),
  postContent   VARCHAR(254),
  event_id      BIGINT DEFAULT
nextval('access_event_id_seq') PRIMARY KEY
);
```

```
CREATE TABLE access_event_header
(
  event_id      BIGINT NOT NULL,
  header_key    VARCHAR(254) NOT NULL,
  header_value  VARCHAR(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);
```

Found in path(s):

```
* /opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/db/script/postgresql.sql
```

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-- conditions.

-- This SQL script creates the required tables by `ch.qos.logback.access.db.DBAppender`

--

```
DROP TABLE access_event_header
```

```
DROP TABLE access_event
```

```

CREATE TABLE access_event
(
  timestmp      BIGINT NOT NULL,
  requestURI    VARCHAR(254),
  requestURL    VARCHAR(254),
  remoteHost    VARCHAR(254),
  remoteUser    VARCHAR(254),
  remoteAddr    VARCHAR(254),
  protocol      VARCHAR(254),
  method        VARCHAR(254),
  serverName    VARCHAR(254),
  postContent   VARCHAR(254),
  event_id      INT NOT NULL identity,
  PRIMARY KEY(event_id)
)

```

```

CREATE TABLE access_event_header
(
  event_id      INT NOT NULL,
  header_key    VARCHAR(254) NOT NULL,
  header_value  VARCHAR(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
)

```

Found in path(s):

```

* /opt/cola/permits/1938908059_1710770714.649112/0/logback-access-1-2-13-sources-
jar/ch/qos/logback/access/db/script/msSQLServer.sql

```

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#

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# conditions.

# This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender.

#

# It is intended for MySQL databases. It has been tested on MySQL 5.5.31 with

# INNODB tables.

BEGIN;

DROP TABLE IF EXISTS access\_event\_header;

DROP TABLE IF EXISTS access\_event;

COMMIT;

```

BEGIN;
CREATE TABLE access_event
(
  timestmp      BIGINT NOT NULL,
  requestURI    VARCHAR(254),
  requestURL    VARCHAR(254),
  remoteHost    VARCHAR(254),
  remoteUser    VARCHAR(254),
  remoteAddr    VARCHAR(254),
  protocol      VARCHAR(254),
  method        VARCHAR(254),
  serverName    VARCHAR(254),
  postContent   VARCHAR(254),
  event_id      BIGINT NOT NULL
  AUTO_INCREMENT PRIMARY KEY
);
COMMIT;

```

```

BEGIN;
CREATE TABLE access_event_header
(
  event_id      BIGINT NOT NULL,
  header_key    VARCHAR(254) NOT NULL,
  header_value  VARCHAR(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);
COMMIT;

```

Found in path(s):

\* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/db/script/mysql.sql

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Found in path(s):

- \* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/pattern/ThreadNameConverter.java
- \* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/pattern/SessionIDConverter.java
- \* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/pattern/QueryStringConverter.java
- \* /opt/cola/permits/1938908059\_1710770714.649112/0/logback-access-1-2-13-sources-jar/ch/qos/logback/access/pattern/ElapsedSecondsConverter.java

# 1.349 jaxb-api 2.3.1

## 1.349.1 Available under license :

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# 1.350 activation-api 1.2.2

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```

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<description>JSR305 Annotations for Findbugs</description>
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```

```

    <distribution>repo</distribution>
  </license>
</licenses>

<prerequisites>
  <maven>3.0</maven>
</prerequisites>

<scm>
  <connection>scm:git:https://code.google.com/p/jsr-305/</connection>
  <developerConnection>scm:git:https://code.google.com/p/jsr-305/</developerConnection>
  <url>https://code.google.com/p/jsr-305/</url>
</scm>

<build>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-javadoc-plugin</artifactId>
      <version>2.9.1</version>
      <executions>
        <execution>
          <phase>package</phase>
          <goals>
            <goal>jar</goal>
          </goals>
          <configuration>
            <quiet>>true</quiet>
          </configuration>
        </execution>
      </executions>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.0</version>
      <configuration>
        <source>1.5</source>
        <target>1.5</target>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-source-plugin</artifactId>
      <version>2.4</version>
      <executions>
        <execution>
          <id>attach-sources</id>

```

```

    <goals>
      <goal>jar-no-fork</goal>
    </goals>
  </execution>
</executions>
</plugin>
<plugin>
  <groupId>org.apache.felix</groupId>
  <artifactId>maven-bundle-plugin</artifactId>
  <version>2.4.0</version>
  <extensions>>true</extensions>
  <executions>
    <execution>
      <id>bundle-manifest</id>
      <phase>process-classes</phase>
      <goals>
        <goal>manifest</goal>
      </goals>
    </execution>
  </executions>
  <configuration>
    <instructions>
      <Bundle-SymbolicName>org.jsr-305</Bundle-SymbolicName>
      <Bundle-Name>${project.name}</Bundle-Name>
      <Export-Package>javax.annotation;javax.annotation.concurrent;javax.annotation.meta</Export-Package>
    </instructions>
  </configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-jar-plugin</artifactId>
  <version>2.4</version>
  <configuration>
    <archive>
      <manifestFile>${project.build.outputDirectory}/META-INF/MANIFEST.MF</manifestFile>
    </archive>
  </configuration>
</plugin>
<plugin>
  <groupId>org.sonatype.plugins</groupId>
  <artifactId>nexus-staging-maven-plugin</artifactId>
  <version>1.6.3</version>
  <extensions>>true</extensions>
  <configuration>
    <serverId>ossrh</serverId>
    <nexusUrl>https://oss.sonatype.org</nexusUrl>
    <autoReleaseAfterClose>>true</autoReleaseAfterClose>
  </configuration>

```

```
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-gpg-plugin</artifactId>
  <version>1.5</version>
  <executions>
    <execution>
      <id>sign-artifacts</id>
      <phase>verify</phase>
      <goals>
        <goal>sign</goal>
      </goals>
    </execution>
  </executions>
</plugin>
</plugins>
</build>
</project>
```

Found in path(s):

```
* /opt/cola/permits/1982448225_1713767424.6824625/0/jsr305-3-0-2-14-jar/META-
INF/maven/com.google.code.findbugs/jsr305/pom.xml
```

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Bundle-Description: JSR305 Annotations for Findbugs

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-SymbolicName: org.jsr-305

Archiver-Version: Plexus Archiver

Built-By: lan

Bnd-LastModified: 1490936130302

Bundle-ManifestVersion: 2

Tool: Bnd-2.1.0.20130426-122213

Export-Package: javax.annotation;uses:="javax.annotation.meta";version="3.0.2",javax.annotation.concurrent;version="3.0.2",javax.annotation.meta;uses:="javax.annotation";version="3.0.2"

Bundle-Name: FindBugs-jsr305

Bundle-Version: 3.0.2

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_101

Found in path(s):

```
* /opt/cola/permits/1982448225_1713767424.6824625/0/jsr305-3-0-2-14-jar/META-INF/MANIFEST.MF
```

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