```
1 /Users/Aashay/Library/Java/JavaVirtualMachines/
  openjdk-19.0.2/Contents/Home/bin/java -javaagent:/
  Applications/IntelliJ IDEA CE.app/Contents/lib/
  idea_rt.jar=53223:/Applications/IntelliJ IDEA CE.
  app/Contents/bin -Dfile.encoding=UTF-8 -Dsun.stdout
  .encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -
  classpath /Users/Aashay/Desktop/Spring2023/PSA/
  INFO6205/target/classes:/Users/Aashay/.m2/
  repository/com/phasmidsoftware/args_2.13/1.0.3/
  args_2.13-1.0.3.jar:/Users/Aashay/.m2/repository/
  org/scala-lang/scala-library/2.13.7/scala-library-2
  .13.7.jar:/Users/Aashay/.m2/repository/org/scala-
  lang/modules/scala-parser-combinators_2.13/1.1.2/
  scala-parser-combinators_2.13-1.1.2.jar:/Users/
  Aashay/.m2/repository/org/apache/logging/log4j/
  log4j-api/2.19.0/log4j-api-2.19.0.jar:/Users/Aashay
  /.m2/repository/log4j/log4j/1.2.17/log4j-1.2.17.jar
  :/Users/Aashay/.m2/repository/com/google/guava/
  guava/31.1-jre/guava-31.1-jre.jar:/Users/Aashay/.m2
  /repository/com/google/guava/failureaccess/1.0.1/
  failureaccess-1.0.1.jar:/Users/Aashay/.m2/
  repository/com/google/guava/listenablefuture/9999.0
  -empty-to-avoid-conflict-with-guava/
  listenablefuture-9999.0-empty-to-avoid-conflict-
  with-guava.jar:/Users/Aashay/.m2/repository/com/
  google/code/findbugs/jsr305/3.0.2/jsr305-3.0.2.jar
  :/Users/Aashay/.m2/repository/org/checkerframework/
  checker-qual/3.12.0/checker-qual-3.12.0.jar:/Users/
  Aashay/.m2/repository/com/google/errorprone/
  error_prone_annotations/2.11.0/
  error_prone_annotations-2.11.0.jar:/Users/Aashay/.
  m2/repository/com/google/j2objc/j2objc-annotations/
  1.3/j2objc-annotations-1.3.jar:/Users/Aashay/.m2/
  repository/org/ini4j/ini4j/0.5.4/ini4j-0.5.4.jar
  edu.neu.coe.info6205.sort.par.Main
2 Degree of parallelism: 7
3 Number of threads2
4 cutoff: 20000        10times Time:938ms
5 cutoff: 30000        10times Time:737ms
6 cutoff: 40000        10times Time:685ms
7 cutoff: 50000        10times Time:699ms
```

```
 8 cutoff: 60000        10times Time:696ms
 9 cutoff: 70000        10times Time:793ms
10 cutoff: 80000        10times Time:726ms
11 cutoff: 90000        10times Time:729ms
12 cutoff: 100000       10times Time:702ms
13 cutoff: 110000       10times Time:700ms
14 cutoff: 120000       10times Time:700ms
15 cutoff: 130000       10times Time:748ms
16 cutoff: 140000       10times Time:763ms
17 cutoff: 150000       10times Time:770ms
18 cutoff: 160000       10times Time:765ms
19 cutoff: 170000       10times Time:751ms
20 cutoff: 180000       10times Time:758ms
21 cutoff: 190000       10times Time:802ms
22 cutoff: 200000       10times Time:752ms
23 cutoff: 210000       10times Time:763ms
24 cutoff: 220000       10times Time:779ms
25 cutoff: 230000       10times Time:752ms
26 cutoff: 240000       10times Time:765ms
27 cutoff: 250000       10times Time:763ms
28 cutoff: 260000       10times Time:803ms
29 cutoff: 270000       10times Time:796ms
30 cutoff: 280000       10times Time:817ms
31 cutoff: 290000       10times Time:830ms
32 cutoff: 300000       10times Time:787ms
33 cutoff: 310000       10times Time:800ms
34 cutoff: 320000       10times Time:805ms
35 cutoff: 330000       10times Time:790ms
36 cutoff: 340000       10times Time:832ms
37 cutoff: 350000       10times Time:814ms
38 cutoff: 360000       10times Time:824ms
39
40 Process finished with exit code 0
41
```