- 1 C:\Users\hiral\Downloads\openjdk-14+36_windowsx64_bin\jdk-14\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021. 2.2\lib\idea_rt.jar=54861:C:\Program Files\JetBrains\ IntelliJ IDEA Community Edition 2021.2.2\bin" -Dfile. encoding=UTF-8 -classpath C:\Users\hiral\IdeaProjects \INFO6205-PSA-Assignments\target\classes;C:\Users\ hiral\.m2\repository\org\apache\logging\log4j\log4japi\2.14.1\log4j-api-2.14.1.jar;C:\Users\hiral\.m2\ repository\log4j\log4j\1.2.17\log4j-1.2.17.jar;C:\ Users\hiral\.m2\repository\com\google\guava\guava\30. 1.1-jre\quava-30.1.1-jre.jar;C:\Users\hiral\.m2\ repository\com\qooqle\quava\failureaccess\1.0.1\ failureaccess-1.0.1.jar;C:\Users\hiral\.m2\repository \com\qoogle\quava\listenablefuture\9999.0-empty-toavoid-conflict-with-quava\listenablefuture-9999.0empty-to-avoid-conflict-with-quava.jar;C:\Users\hiral \.m2\repository\com\google\code\findbugs\jsr305\3.0.2 \jsr305-3.0.2.jar;C:\Users\hiral\.m2\repository\org\ checkerframework\checker-qual\3.8.0\checker-qual-3.8. 0.jar;C:\Users\hiral\.m2\repository\com\qoogle\ errorprone\error_prone_annotations\2.5.1\ error_prone_annotations-2.5.1.jar;C:\Users\hiral\.m2\ repository\com\google\j2objc\j2objc-annotations\1.3\ j2objc-annotations-1.3.jar;C:\Users\hiral\.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 Available processor on the system: 8
- 4 For Array length of :1000000,2 threads, meanTime: 443 minTime: 826 optimal cutoff 910000
- 5 For Array length of :2000000,2 threads, meanTime: 1298 minTime: 826 optimal cutoff 910000
- 6 For Array length of :3000000,2 threads, meanTime: 1783 minTime: 826 optimal cutoff 910000
- 7 For Array length of :4000000,2 threads, meanTime: 2108 minTime: 826 optimal cutoff 910000
- 8 For Array length of :1000000,4 threads, meanTime: 428 minTime: 837 optimal cutoff 710000
- 9 For Array length of :2000000,4 threads, meanTime: 1036 minTime: 837 optimal cutoff 710000

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10 For Array length of :3000000,4 threads, meanTime:
   1431 minTime: 837 optimal cutoff 710000
11 For Array length of :4000000,4 threads, meanTime:
   2360 minTime: 837 optimal cutoff 710000
12 For Array length of :1000000,8 threads, meanTime: 462
    minTime: 916 optimal cutoff 710000
13 For Array length of :2000000,8 threads, meanTime: 967
    minTime: 916 optimal cutoff 710000
14 For Array length of :3000000,8 threads, meanTime:
   2282 minTime: 916 optimal cutoff 710000
15 For Array length of :4000000,8 threads, meanTime:
   2426 minTime: 916 optimal cutoff 710000
16 For Array length of :1000000,16 threads, meanTime:
   754 minTime: 962 optimal cutoff 610000
17 For Array length of :2000000,16 threads, meanTime:
   1336 minTime: 962 optimal cutoff 610000
18 For Array length of :3000000,16 threads, meanTime:
   1670 minTime: 962 optimal cutoff 610000
19 For Array length of :4000000,16 threads, meanTime:
   2045 minTime: 962 optimal cutoff 610000
20 For Array length of :1000000,32 threads, meanTime:
   714 minTime: 1345 optimal cutoff 510000
21 For Array length of :2000000,32 threads, meanTime:
   1256 minTime: 1345 optimal cutoff 510000
22 For Array length of :3000000,32 threads, meanTime:
   1890 minTime: 1345 optimal cutoff 510000
23 For Array length of :4000000,32 threads, meanTime:
   2266 minTime: 1345 optimal cutoff 510000
24 For Array length of :1000000,64 threads, meanTime:
   808 minTime: 1460 optimal cutoff 710000
25 For Array length of :2000000,64 threads, meanTime:
   1257 minTime: 1460 optimal cutoff 710000
26 For Array length of :3000000,64 threads, meanTime:
   1890 minTime: 1460 optimal cutoff 710000
27 For Array length of :4000000,64 threads, meanTime:
   2308 minTime: 1460 optimal cutoff 710000
28
29 Process finished with exit code 0
30
```