

```
1 C:\java11\jdk-11.0.2\bin\java.exe "-javaagent:C:\
Program Files\JetBrains\IntelliJ IDEA Community
Edition 2021.3.2\lib\idea_rt.jar=50470:C:\Program
Files\JetBrains\IntelliJ IDEA Community Edition 2021.
3.2\bin" -Dfile.encoding=UTF-8 -classpath C:\Users\
alex\IdeaProjects\JavaHomework\out\production\
JavaHomework;C:\java11\opencsv-5.6.jar com.netcracker
.homework4.TestJavaCollections
2 ArrayList vs. LinkedList
3 Add: ArrayList's time = 6; LinkedList's time = 5      (
in millisecond)
4 IndexOf: ArrayList's time = 7; LinkedList's time = 16
(in millisecond)
5 Remove: ArrayList's time = 12; LinkedList's time = 11
(in millisecond)
6 #####
7 HashSet vs. LinkedHashSet vs. TreeSet
8 Add: HashSet's time = 4200; LinkedHashSet's time =
700; TreeSet's time = 111800      (in nanosecond)
9 Contains: HashSet's time = 15400; LinkedHashSet's
time = 4099; TreeSet's time = 38700      (in nanosecond
)
10 Remove: HashSet's time = 42400; LinkedHashSet's time
= 9899; TreeSet's time = 19800      (in nanosecond)
11 #####
12 Put: HashMap's time = 77999; LinkedHashMap's time =
30800; TreeMap's time = 81999      (in nanosecond)
13 Contains Value: HashMap's time = 228600;
LinkedHashMap's time = 111201; TreeMap's time =
379500      (in nanosecond)
14 Remove: HashMap's time = 21000; LinkedHashMap's time
= 12200; TreeMap's time = 97499      (in nanosecond)
15
16 Process finished with exit code 0
17
```