

ASSIGNMENT 2 SORTING WITH HEAP

Data Structures and Algorithm



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PURPOSE: This code sorting an array with 3 different sort and compares every sort with their milliseconds.

I see that heap sort is the best way to sort in a short time.

Output:

```
Heap java  dílay_sapmaz java  X
    1● Pacther: <u>Bilan</u> Septet
1 * 35= 040703611
3 * Dete: 30.12.2008
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Array Size: 48000
Heap Sort
1: 1.223967 ms
2: 9.013679 ms
   9.882857 ms
9.882571 ms
   8.081542 ms
8.081542 ms
7: 8.001542 ms
8: 8.001625 ms
10: 8.001542 ms
10: 8.001542 ms
Jana Arnay Sort Time for Heap Sort= 8.1256333999999998
Jana Arnay Sort
1: 34.333322 ms
3.4353322 ms
   8.379887 RS
8.378634 RS
   8.898899 MS
8.418955 MS
 5: 0.099727 ms
3: 0.099985 ms
 10: 0.477621 ms
Average Sort Time for lave Sort- 1.75623888888888
Selection Sort
   707.992543 ms
699.534368 ms
   766.761995 mi
693.936814 mi
   718.921733 m
698.121743 m
 3: 715.918194 ms
10: 713.325000 ms
Average Sort Time for Selection Sort= 711.8301874935939
```