Лабораторна робота За

"Автоматичний режим "benchmark" з вимірами ефективності роботи різних механізмів зберігання"

Нижник Марія ІПС-11

```
Input mode of work
 Input mode of work
                                                   d - demonstration
 d - demonstration
                                                   b - benchmark
b - benchmark
                                                   Enter request:b
Enter request:b
                                                   Enter count of element: 20
 Enter count of element: 10
 Time taken by INSERTION SORT: 1 microseconds
                                                   Time taken by INSERTION SORT: 3 microseconds
 Time taken by QUICK SORT: 4 microseconds
                                                   Time taken by QUICK SORT: 7 microseconds
 Time taken by MERGE SORT: 2 microseconds
                                                   Time taken by MERGE SORT: 13 microseconds
                                                   Time taken by COMBINE SORT: 2 microseconds
 Time taken by COMBINE SORT: 1 microseconds
                                                   Time taken by STANDART SORT: 5 microseconds
 Time taken by STANDART SORT: 2 microseconds
  Input mode of work
                                                  Input mode of work
                                                  d - demonstration
  d - demonstration
  b - benchmark
                                                  b - benchmark
  Enter request:b
                                                  Enter request:b
  Enter count of element: 40
                                                  Enter count of element: 80
  Time taken by INSERTION SORT: 8 microseconds
                                                  Time taken by INSERTION SORT: 24 microseconds
  Time taken by QUICK SORT: 7 microseconds
                                                  Time taken by QUICK SORT: 15 microseconds
  Time taken by MERGE SORT: 10 microseconds
                                                  Time taken by MERGE SORT: 22 microseconds
                                                  Time taken by COMBINE SORT: 24 microseconds
  Time taken by COMBINE SORT: 7 microseconds
  Time taken by STANDART SORT: 10 microseconds
                                                  Time taken by STANDART SORT: 22 microseconds
Input mode of work
                                                Input mode of work
d - demonstration
                                                d - demonstration
b - benchmark
                                                b - benchmark
Enter request:b
                                                Enter request:b
Enter count of element: 160
                                                Enter count of element: 320
Time taken by INSERTION SORT: 84 microseconds
                                                Time taken by INSERTION SORT: 270 microseconds
Time taken by QUICK SORT: 29 microseconds
                                                Time taken by QUICK SORT: 57 microseconds
Time taken by MERGE SORT: 98 microseconds
Time taken by MERGE SORT: 47 microseconds
Time taken by COMBINE SORT: 36 microseconds
                                                Time taken by COMBINE SORT: 55 microseconds
Time taken by STANDART SORT: 99 microseconds
Time taken by STANDART SORT: 47 microseconds
                                                  Input mode of work
Input mode of work
d - demonstration
                                                 d - demonstration
                                                 b - benchmark
b - benchmark
                                                 Enter request:b
Enter request:b
                                                 Enter count of element: 1000
Enter count of element: 640
                                                 Time taken by INSERTION SORT: 2659 microseconds
Time taken by INSERTION SORT: 1050 microseconds
                                                  Time taken by QUICK SORT: 211 microseconds
Time taken by QUICK SORT: 126 microseconds
Time taken by MERGE SORT: 207 microseconds
                                                  Time taken by MERGE SORT: 319 microseconds
Time taken by COMBINE SORT: 125 microseconds
                                                  Time taken by COMBINE SORT: 206 microseconds
Time taken by STANDART SORT: 214 microseconds
                                                 Time taken by STANDART SORT: 378 microseconds
```

Бачимо, що комбіноване сортування дуже добре виконує свою задачу, є найоптимальнішим на будь-якому наборі