

Hw9

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The result goes:

Elapsed time of insertion sort of length 10000 random array is:28

Elapsed time of merge sort of length 10000 random array is:6

Elapsed time of quick sort of length 10000 random array is:3

Elapsed time of heap sort of length 10000 random array is:33

Elapsed time of insertion sort of length 20000 random array is:82

Elapsed time of merge sort of length 20000 random array is:2

Elapsed time of quick sort of length 20000 random array is:0

Elapsed time of heap sort of length 20000 random array is:3

Elapsed time of insertion sort of length 30000 random array is:120

Elapsed time of merge sort of length 30000 random array is:2

Elapsed time of quick sort of length 30000 random array is:1

Elapsed time of heap sort of length 30000 random array is:3

Elapsed time of insertion sort of length 40000 random array is:209

Elapsed time of merge sort of length 40000 random array is:5

Elapsed time of quick sort of length 40000 random array is:1

Elapsed time of heap sort of length 40000 random array is:6

Elapsed time of insertion sort of length 50000 random array is:335

Elapsed time of merge sort of length 50000 random array is:4

Elapsed time of quick sort of length 50000 random array is:1

Elapsed time of heap sort of length 50000 random array is:3

Elapsed time of insertion sort of length 60000 random array is:394

Elapsed time of merge sort of length 60000 random array is:7

Elapsed time of quick sort of length 60000 random array is:1

Elapsed time of heap sort of length 60000 random array is:4

Elapsed time of insertion sort of length 70000 random array is:524

Elapsed time of merge sort of length 70000 random array is:3

Elapsed time of quick sort of length 70000 random array is:2

Elapsed time of heap sort of length 70000 random array is:4

Elapsed time of insertion sort of length 80000 random array is:682

Elapsed time of merge sort of length 80000 random array is:4

Elapsed time of quick sort of length 80000 random array is:2

Elapsed time of heap sort of length 80000 random array is:5

Elapsed time of insertion sort of length 90000 random array is:865

Elapsed time of merge sort of length 90000 random array is:5

Elapsed time of quick sort of length 90000 random array is:1

Elapsed time of heap sort of length 90000 random array is:6

Elapsed time of insertion sort of length 100000 random array is:1114

Elapsed time of merge sort of length 100000 random array is:9

Elapsed time of quick sort of length 100000 random array is:2

Elapsed time of heap sort of length 100000 random array is:7

