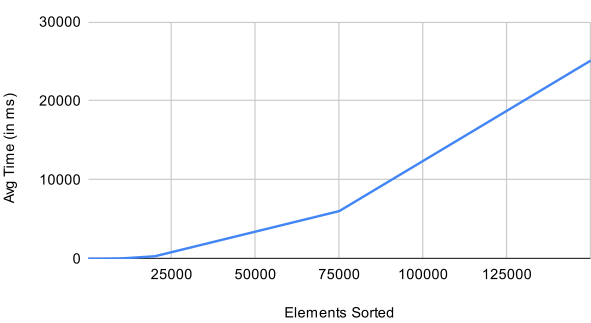


Bubble Sort

Elements Sorted	Avg Time (in ms)
100	0.0704
500	0.1943
1000	0.5948
2000	2.0198
5000	10.5936
10000	41.1048
20000	315.0465
75000	6036.971
150000	25094.8004

Bubble Sort - Avg Time (in ms) vs. Elements Sorted

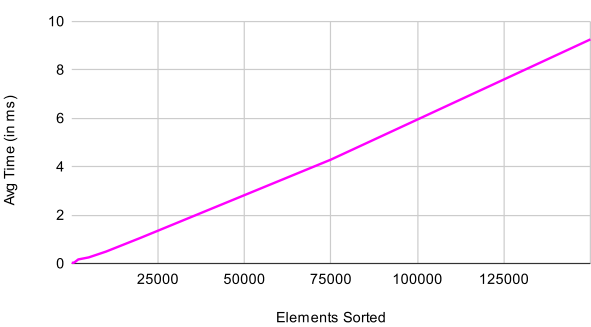


Overall Avg: 31501.3956

Quick Sort

Elements Sorted	Avg Time (in ms)
100	0.0374
500	0.0265
1000	0.0605
2000	0.1706
5000	0.2537
10000	0.4937
20000	1.0624
75000	4.2937
150000	9.2601

Quick Sort - Avg Time (in ms) vs. Elements Sorted

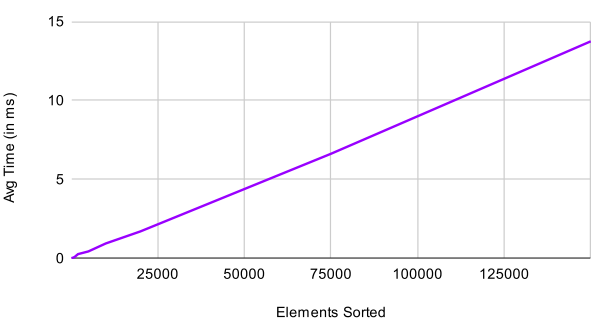


Overall Avg: 15.6586

Merge Sort

Elements Sorted	Avg Time (in ms)
100	0.0164
500	0.0408
1000	0.0875
2000	0.2713
5000	0.4426
10000	0.945
20000	1.7082
75000	6.6239
150000	13.7444

Merge Sort - Avg Time (in ms) vs. Elements Sorted

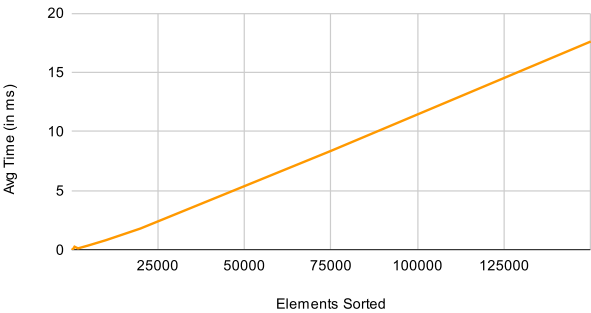


Overall Avg: 23.8801

Shell Sort

Elements Sorted	Avg Time (in ms)
100	0.0439
500	0.0393
1000	0.2768
2000	0.1359
5000	0.3823
10000	0.8224
20000	1.8096
75000	8.3656
150000	17.6011

Shell Sort - Avg Time (in ms) vs. Elements Sorted

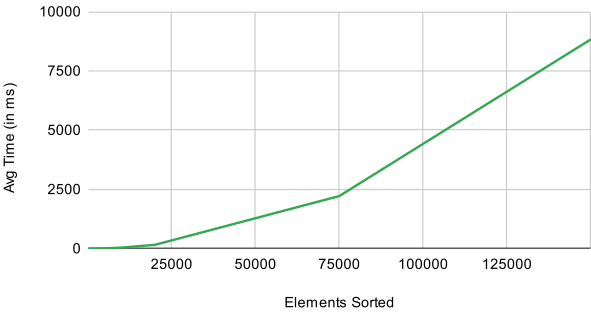


Overall Avg: 29.4769

Selection Sort

Elements Sorted	Avg Time (in ms)
100	0.0188
500	0.154
1000	0.4237
2000	1.6706
5000	9.9049
10000	39.82
20000	156.5538
75000	2216.3393
150000	8827.8852

Selection Sort - Avg Time (in ms) vs. Elements Sorted

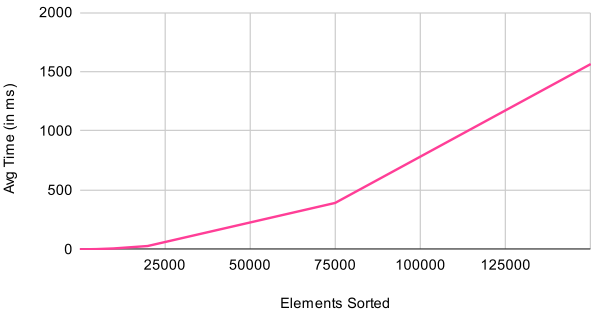


Overall Avg: 11252.7703

Insertion Sort

Elements Sorted	Avg Time (in ms)
100	0.0742
500	0.1595
1000	0.1145
2000	0.304
5000	1.7539
10000	7.1366
20000	27.686
75000	391.406
150000	1563.9304

Insertion Sort - Avg Time (in ms) vs. Elements Sorted



Overall Avg: 1992.5651

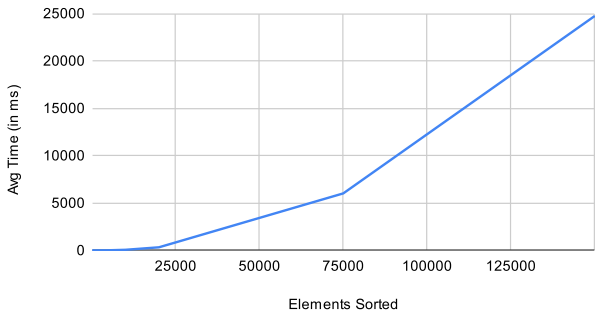
Overall Avg Ranking	Name	Time (in ms)
1	Quick Sort	15.6586
2	Merge Sort	23.8801
3	Shell Sort	29.4769
4	Insertion Sort	1992.5651
5	Selection Sort	11252.7703
6	Bubble Sort	31501.3956

QUESTION 12 KSortedArray

Bubble Sort

Elements Sorted	Avg Time (in ms)
100	0.0645
500	0.2903
1000	0.822
2000	2.115
5000	11.3628
10000	61.0274
20000	324.4074
75000	6014.5415
150000	24734.4471

Bubble Sort- Avg Time (in ms) vs. Elements Sorted

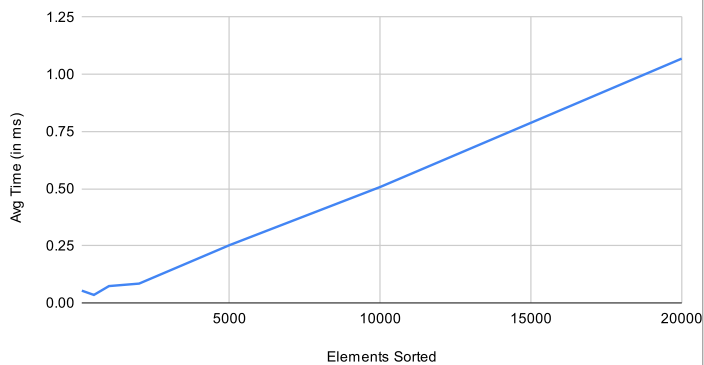


Overall Avg: 31149.078

Quick Sort

Elements Sorted	Avg Time (in ms)
100	0.0534
500	0.0347
1000	0.0734
2000	0.0843
5000	0.2526
10000	0.5072
20000	1.0688

Avg Time (in ms) vs. Elements Sorted



For some reason, I kept on getting a stack overflow for quick sort even when I tried using different quick sort methods

10-Sorted

Elements Sorted	Avg Time (in ms)
100	0.0069

Avg Time (in ms) vs. Elements Sorted

