

Algorithm Name: Selection Sort Type of list (sorted or unsorted): Unsorted		
List Size	Comparisons	Time (seconds)
1,000	499500	0.100726843
2,000	1999000	0.177525759
4,000	7998000	0.695287943
8,000	31996000	2.842987537
16,000	127992000	13.24894118
32,000	511984000	52.55555224
100,000	4999950000	551.8558838
500,000	1.25E+11	13783.23895

Algorithm Name: Insertion Sort Type of list (sorted or unsorted): Unsorted		
List Size	Comparisons	Time (seconds)
1,000	254537	0.106714725
2,000	1001444	0.365089893
4,000	3924671	1.202913761
8,000	15805755	7.329817772
16,000	64168190	25.53038287
32,000	255484302	127.7474024
100,000	2503767894	1104.433815
500,000	62604042310	26861.54812
Algorithm Name: Heap Sort Type of list (sorted or unsorted): Unsorted		

List Size	Comparisons	Time (seconds)
1,000	9133	0.018948793
2,000	18378	0.028922081
4,000	36754	0.065820456
8,000	73320	0.127655029
16,000	147049	0.319850445
32,000	293736	0.627655029
100,000	918058	2.368775129
500,000	4589859	12.45573926

Algorithm Name: Quick Sort **Type of list (sorted or unsorted):** Unsorted

List Size	Comparisons	Time (seconds)
1,000	1955	0.00498676
2,000	3921	0.006979942
4,000	7994	0.01600551
8,000	15410	0.0628314
16,000	30946	0.13364219
32,000	61431	0.151594161
100,000	196318	0.5575098
500,000	998307	3.179448307

Algorithm Name: Bubble Sort **Type of list (sorted or unsorted):** Unsorted

List Size	Comparisons	Time (seconds)
1,000	499500	0.130650759

2,000	1999000	0.602388859
4,000	7998000	1.55147934
8,000	31996000	8.487509727
16,000	127992000	28.08123088
32,000	511984000	145.7774777
100,000	4999950000	1360.640545
500,000	1.25E+11	34023.29184

Algorithm Name: Bubble Sort 2 **Type of list (sorted or unsorted):** Unsorted

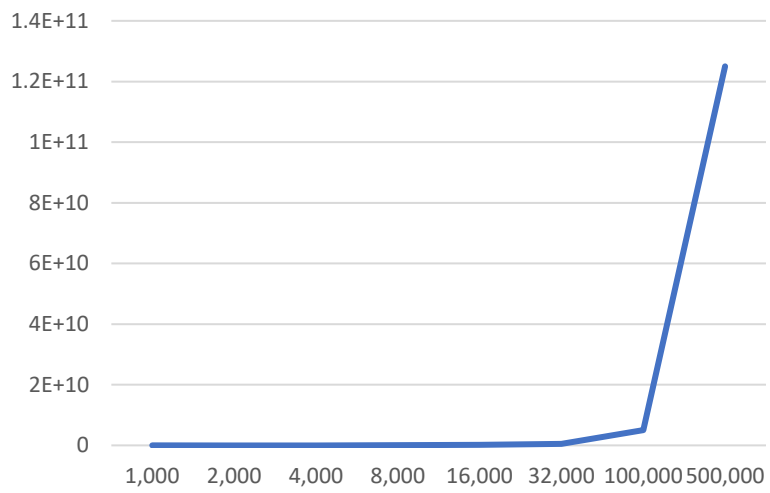
List Size	Comparisons	Time (seconds)
1,000	499500	0.13463974
2,000	1999000	0.41385293
4,000	7998000	1.650394678
8,000	31996000	11.02213001
16,000	127992000	31.46189952
32,000	511984000	153.6349974
100,000	4999950000	1547.440754
500,000	1.25E+11	38567.18947

Algorithm Name: Merge Sort **Type of list (sorted or unsorted):** Unsorted

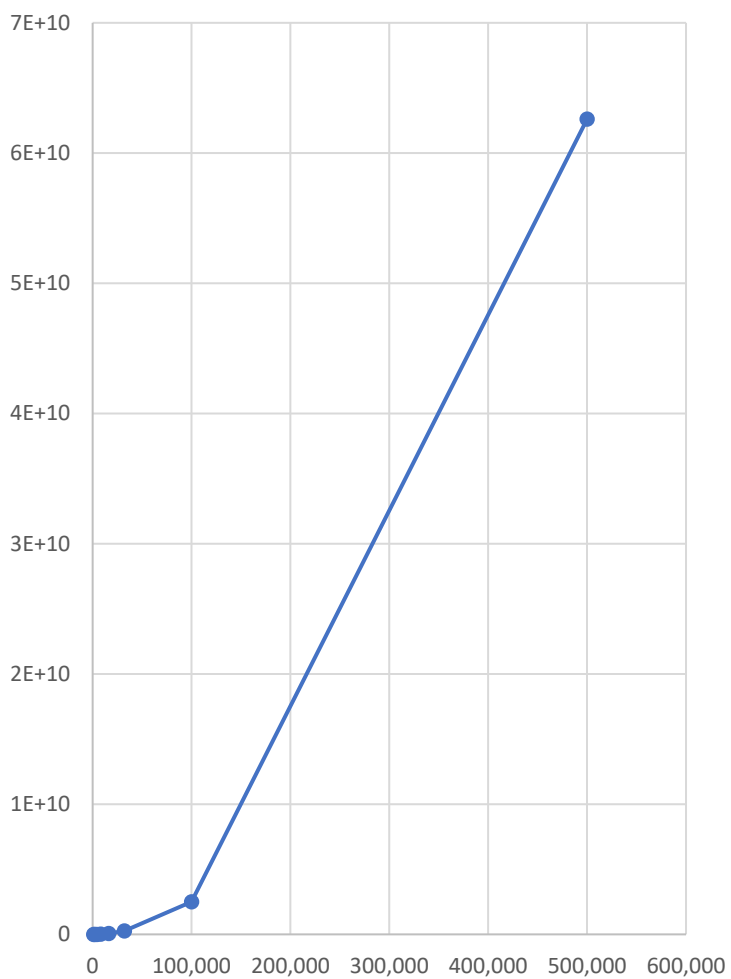
List Size	Comparisons	Time (seconds)
1,000	9976	0.0039807
2,000	21952	0.007977724
4,000	47904	0.018950224
8,000	103808	0.035952091

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Selection Unsorted

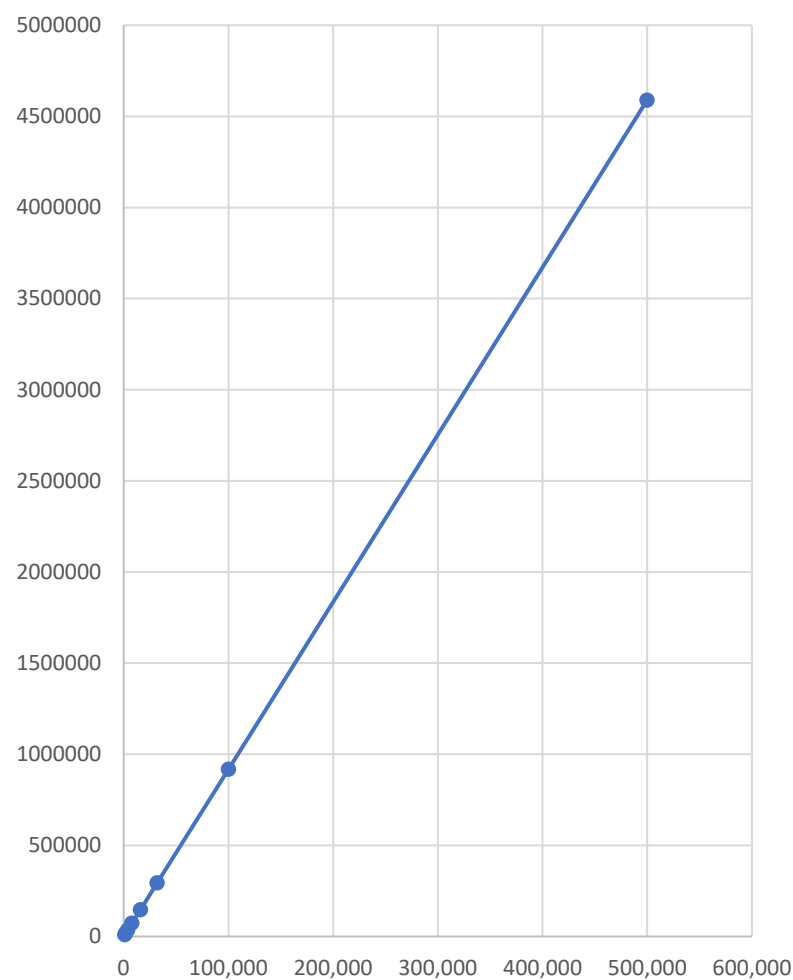


Insertion Unsorted

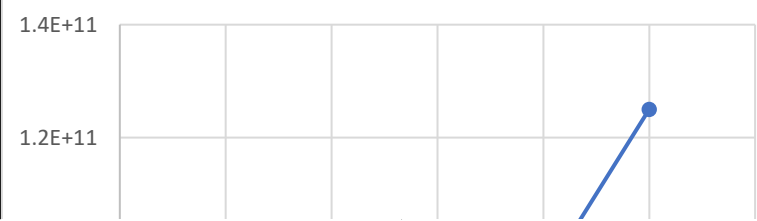


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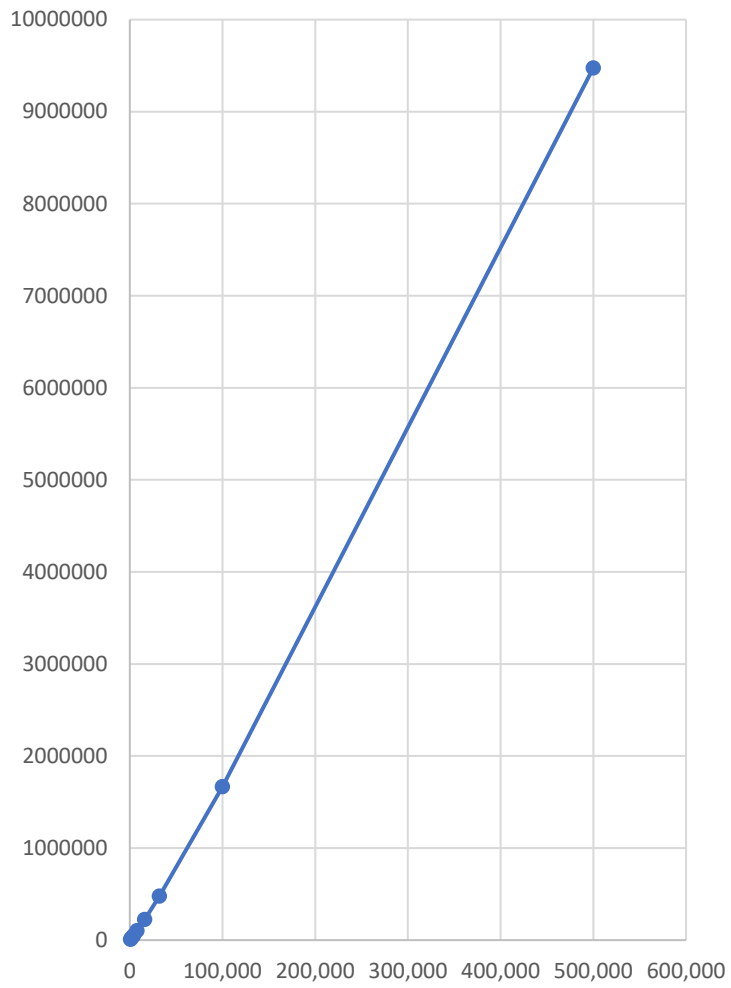
Heap Sort Unsorted



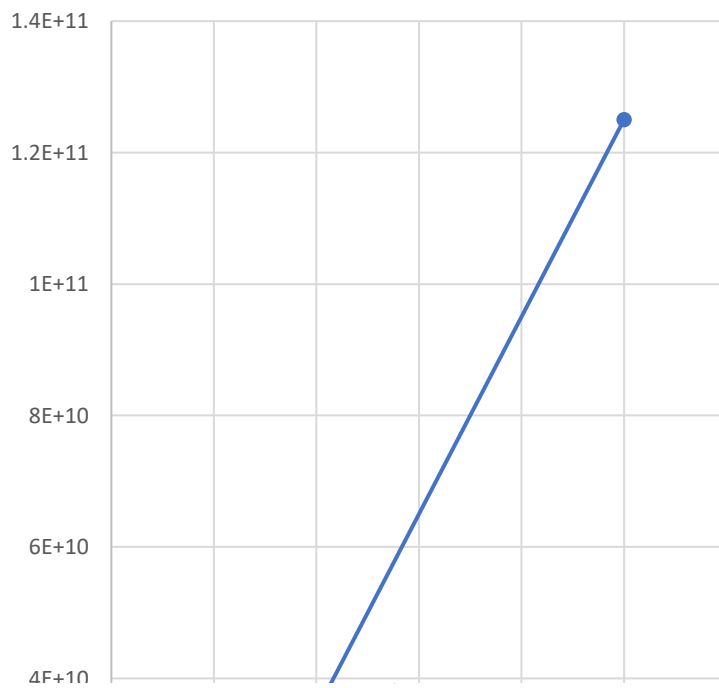
Bubble Sort Unsorted



merge sort sorted



Bubble Sort 2 Unsorted

[illegible]

