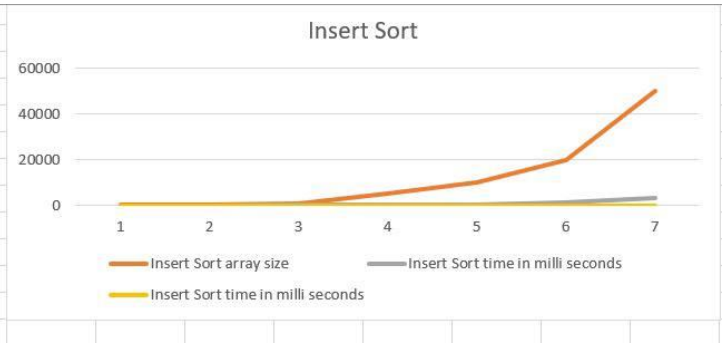
Report

Plots for the algorithms

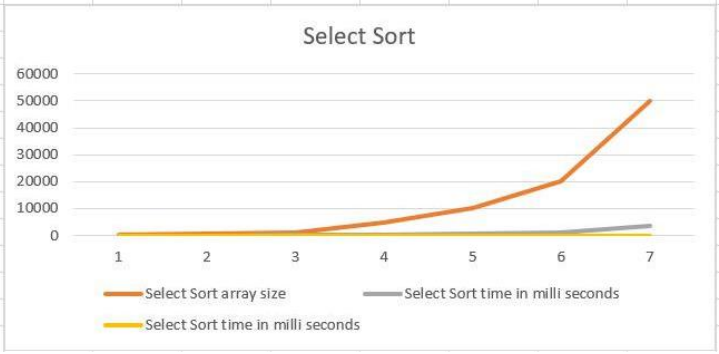
- Insertion sort

Insert Sort	
array size	time in milli seconds
200	11 ms
500	26 ms
1000	50 ms
5000	236 ms
10000	491 ms
20000	1055 ms
50000	3146 ms



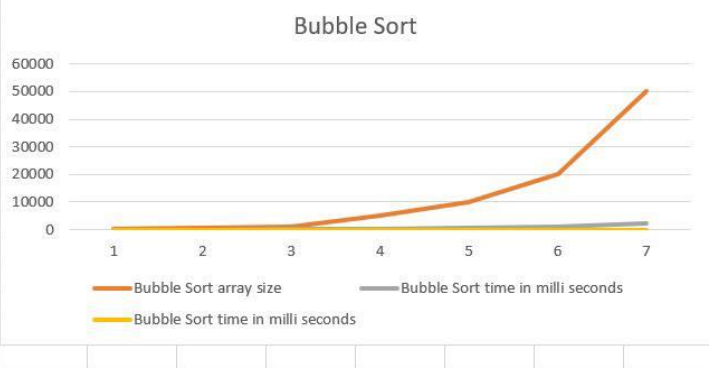
- **Selection sort**

Select Sort	
array size	time in milli seconds
200	11 ms
500	23 ms
1000	49 ms
5000	241 ms
10000	538 ms
20000	1144 ms
50000	3676 ms



- **Bubble sort**

Bubble Sort	
array size	time in milli seconds
200	9 ms
500	23 ms
1000	51 ms
5000	240 ms
10000	474 ms
20000	952 ms
50000	2365 ms

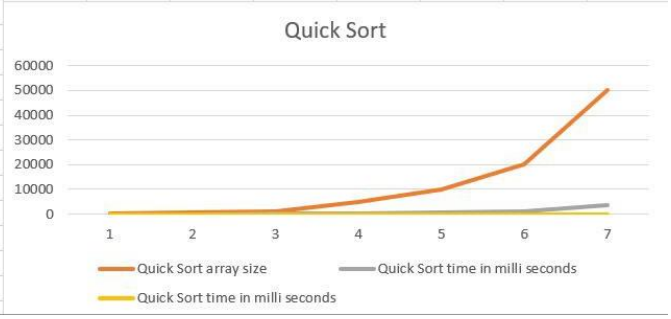


- **Shell sort**

Shell Sort		
array size	time in milli seconds	
200	11	ms
500	27	ms
1000	49	ms
5000	265	ms
10000	303	ms
20000	1446	ms
50000	5032	ms

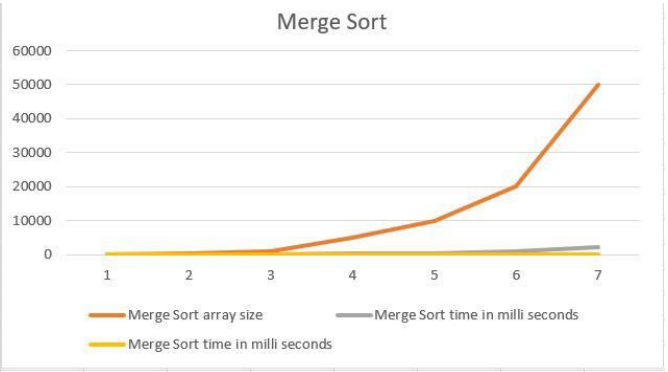
- **Quick sort**

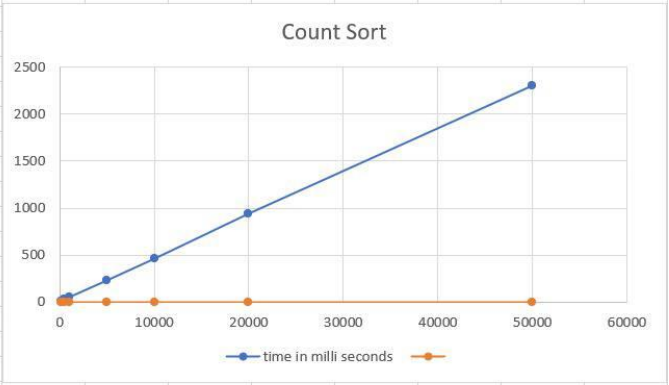
Quick Sort		
array size	time in milli seconds	
200	9	ms
500	21	ms
1000	44	ms
5000	243	ms
10000	510	ms
20000	1144	ms
50000	3570	ms



- **Merge sort**

Merge Sort		
array size	time in milli seconds	
200	11	ms
500	22	ms
1000	46	ms
5000	229	ms
10000	469	ms
20000	932	ms
50000	2334	ms



- **Count sort**

Count Sort		
array size	time in milli seconds	
200	11	ms
500	27	ms
1000	51	ms
5000	234	ms
10000	468	ms
20000	940	ms
50000	2305	ms