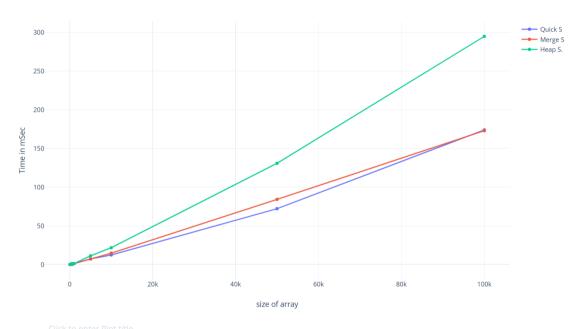
IDs: 9091

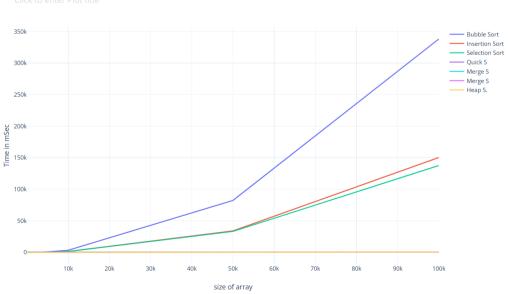
Time Comparison Report

Report on Time complexity between **Bubble**, **Insertion**, **Selection**, **Quick**, **merge and Heap** Sorting Algorithm

Awron						
Array size	Bubble Sort	Insertion Sort	Selection Sort	Quick S	Merge S	Heap S.
50	0	0	0	0	0	0
100	1	0	0	0	0	0
500	6.3	3.2	3	1	0	1
1000	32.13	13.52	13	1.01	1.02	1.01
5000	778.71	348.76	323.16	7.1	7	11.14
10000	3249.78	1319.78	1252.38	12.27	14.61	21.61
50000	82193.01	33936.97	33050.45	72.11	84.18	130.78
100000	338244.59	150274.49	137543.03	173.95	172.97	294.93

Time Comparison Graph





```
Running Time for Bubble Sort of array size 50: 0.00ms
Running Time for Insertion Sort of array size 50: 0.00ms
Running Time for Selection Sort of array size 50: 0.00ms
Running Time for Quick Sort of array size 50: 0.00ms
Running Time for Merge Sort of array size 50: 0.00ms
Running Time for Heap Sort of array size 50: 0.00ms
Running Time for Bubble Sort of array size 100: 1.00ms
Running Time for Insertion Sort of array size 100: 0.00ms
Running Time for Selection Sort of array size 100: 0.00ms
Running Time for Quick Sort of array size 100: 0.00ms
Running Time for Merge Sort of array size 100: 0.00ms
Running Time for Heap Sort of array size 100: 0.00ms
Running Time for Bubble Sort of array size 500: 6.30ms
Running Time for Insertion Sort of array size 500: 3.00ms
Running Time for Selection Sort of array size 500: 3.25ms
Running Time for Quick Sort of array size 500: 1.00ms
Running Time for Merge Sort of array size 500: 0.00ms
Running Time for Heap Sort of array size 500: 1.00ms
Running Time for Bubble Sort of array size 1000: 32.13ms
Running Time for Insertion Sort of array size 1000: 13.52ms
Running Time for Selection Sort of array size 1000: 13.65ms
Running Time for Quick Sort of array size 1000: 1.01ms
Running Time for Merge Sort of array size 1000: 1.02ms
Running Time for Heap Sort of array size 1000: 1.01ms
Running Time for Bubble Sort of array size 5000: 778.71ms
Running Time for Insertion Sort of array size 5000: 348.76ms
Running Time for Selection Sort of array size 5000: 323.16ms
Running Time for Quick Sort of array size 5000: 7.10ms
Running Time for Merge Sort of array size 5000: 7.00ms
Running Time for Heap Sort of array size 5000: 11.14ms
```