Testing Document

* All times posted are measured in nanoseconds (ns)

Sorted Data	100	1000	10000	100000	1000000
Insertion Sort	39384	421572	5132755	10401020	49492752
Merge Sort	188848	6467051	36066703	108948066	368726569
Heap Sort	473160	12006263	24073234	54973177	403578431
Quick Sort	160504	623307	12453893	107818586	216619192

Unsorted Data	100	1000	10000	100000	1000000
Insertion Sort	794822	31706320	169983345	46798922835	7172778630209
Merge Sort	251768	1923134	49297867	147131703	862696028
Heap Sort	474310	2850247	29926792	115542865	1497580391
Quick Sort	236752	813093	18271927	71913872	647567827

Insertion sort:

Best case: n Worst case: n^2 Expected case: n^2

Merge sort:

Best case: n lg n Worst case: n lg n Expected case: n lg n

Heap sort:

Best case: n lg n Worst case: n lg n Expected case: n lg n

Quick sort:

Best case: n lg n Worst case: n^2 Expected case: n lg n