

Date of submission

Group A: 29/1/19

Group B: 30/1/19

Compare three sorting algorithms one of which is an $O(n^2)$ comparison sort, an $O(n \log n)$ comparison sort and a non comparison sort. Generate random arrays of size 1000 to 10000 in steps of 1000. For each size find out the number of comparisons each sorting algorithms make by repeating the experiment 100 times for each size and then finding the average. Plot a graph where the y-axis is the number of comparisons and x-axis is the array size for the 3 sorting algorithms on the same graph.