MA251 Data Structures Lab

Jul - Nov 2021

Assignment 1

1. Fill an array of size $n = 10$ with 16 bit integers randomly. Use this array as an input and calculate the running time of (1) Insertion sort, (2) Bubble sort, (3) Selection sort. Repeat this for $n = 10^2, n = 10^3, n = 10^4, n = 10^5, n = 10^6$ and plot the output as a graph;

2. Repeat the above experiment with an array whose entries are *sorted*;

3. Repeat the above experiment with an array whose entries are *reversely sorted*.