

## Course #4 Advanced Data Structure & Algorithms

### Assignment #4 Sorting Techniques

It's required to implement a program that compares between different sorting techniques studied in the class:

1. .Selection Sort( Jump down sort)
2. .Bubble Sort
3. .Insertion Sort
4. .Merge Sort
5. .Heap Sort
6. .Quick Sort

The input to the program will start with a number N on the first line, where N is the length of data to be sorted. on the next N lines. there will be a single number on each line. It's required to print the sorted numbers, each on a single line.

Note: you have to implement each technique in a separately

**Sample Run** (inputs in green)

10

23

653

4

123

636

246

981

153

12

51

Output:

4

12

23

51

123

153

246

636

653

981