

# Assignment on Searching and Sorting

1. Write a program to illustrate the sorting mechanism of various sorting algorithms, such as selection sort, insertion sort, and bubble sort. Write programs that accepts input from users and then sort the elements. Check your solution with the following input  $A = \{5, 13, 2, 25, 7, 17, 20, 8, 4\}$ .
2. Write program for searching an element in a given array of elements. Supply at least 20 to 30 elements and then search an element using linear search and recursive binary search.

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