Assignment-2

- Q1. Given an array of **N integers**, write a java program to implement the Selection sort algorithm.
- Q2. Given an array of **N integers**, write a java program to implement the Quick sort algorithm.
- Q3. Write a program on **modified Bubble Sort algorithm** to sort a given array and thenlocate a user input number in the sorted array by using **Binary Search algorithm**.

Input Specification

- First line of the input is an integer N, representing the number of elements in the array.
- Second line of the input will comprise of N integers separated by space, representing the elements of the array.
- Third line of the input will an integer S, which is to be located in the sorted arrayusing Binary Search.

Output Specification

- First line of the output should be the index value representing the location of integer S in the sorted array.
- Second line of the output should be the number of integer comparisons done for determining the location of the integer S.

Sample Input	Sample Input		
5	6		
40 20 30 50 10	517493		
40	1		
Sample output	Sample output		
3	0		
2	2		