

Day 51 coding Statement : Given an integer array of size N, write a program to sort the array;

Sample input 1:

4

2 4 1 3

Sample output 1:

1 2 3 4

Sample input 2:

5

1 5 7 5 3

Sample output 2:

1 3 5 5 7

```
import java.util.Scanner;

public class RatanPrajapati_day51 {
    static void swap(int arr[], int start, int end) {
        arr[start] = arr[start] ^ arr[end];
        arr[end] = arr[start] ^ arr[end];
        arr[start] = arr[start] ^ arr[end];
    }

    static void bubbleSort(int[] arr, int size) {
        boolean is = true;
        for (int i = 0; i < size - 1; i++) {
            for (int j = 0; j < size - i - 1; j++) {
                if (arr[j] > arr[j + 1]) {
                    swap(arr, j, j + 1);
                    is = false;
                }
            }
            if (is) {
                break;
            }
        }
    }

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int size = sc.nextInt();
```

```
int[] arr = new int[size];
for (int i = 0; i < size; i++) {
    arr[i] = sc.nextInt();
}
bubbleSort(arr, size);
for (int i = 0; i < size; i++) {
    System.out.print(arr[i] + " ");
}
}
```