

Aim:

Write a java program to sort the given array of elements using Bubble Sort.

Input Format:

- The first line contains an integer n representing the no of elements of the array
- The second line contains n integers separated with space, representing the elements of the array

Output Format:

- The elements of the array after sorting

Source Code:

q32083/BubbleSort.java

```
package q32083;
import java.util.Scanner;

public class BubbleSort {
    public static void main(String arg[])
    {
        int n,i=0;
        Scanner o=new Scanner(System.in);
        n=o.nextInt();
        int a[]=new int[n];
        for(i=0;i<n;i++)
            a[i]=o.nextInt();
        int j;
        for(i=0;i<n;i++)
        {
            for(j=i+1;j<n;j++)
            {
                if(a[i]>a[j])
                {
                    int M=a[i];
                    a[i]=a[j];
                    a[j]=M;
                }
            }
        }
        for(i=0;i<n;i++)
            System.out.print(a[i]+" ");
    }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
5
12 35 69 48 51

12 35 48 51 69

Test Case - 2
User Output
3
5 -1 25
-1 5 25