

Aim:

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

Source Code:

q36415/BubbleSort.java

```
package q36415;
import java.io.*;
import java.util.*;
class BubbleSort{
    public static void main(String args[]){
        int n,i;
        Scanner sc= new Scanner(System.in);
        System.out.print("Enter no of elements: ");
        n=sc.nextInt();
        int a[]=new int[n];
        System.out.print("Enter the elements: \n");
        for(i=0;i<n;i++)
            a[i]=sc.nextInt();
        BubbleSortDemo Bs= new BubbleSortDemo();
        Bs.BubbleSorting(a,n);
        System.out.print("Sorted elements:\n");
        for(i=0;i<n;i++)
        {
            System.out.print(a[i]+" ");
        }
    }
}
class BubbleSortDemo{
    public static void BubbleSorting(int a[],int n){
        int i=0,j=0,t;
        for(i=0;i<n;i++)
        {
            for(j=i+1;j<n;j++)
            {
                if(a[i]>a[j])
                {
                    t=a[i];
                    a[i]=a[j];
                    a[j]=t;
                }
            }
        }
    }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1

User Output

| |
|-----------------------------|
| Enter no of elements: 3 |
| Enter the elements: 5 -1 25 |
| Sorted elements: |
| -1 5 25 |

| |
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| Test Case - 2 |
| User Output |
| Enter no of elements: 6 |
| Enter the elements: 15 54 87 69 32 151 |
| Sorted elements: |
| 15 32 54 69 87 151 |