

Aim:

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

Source Code:

q36415/BubbleSort.java

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

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 |