

<https://course.acciojob.com/idle?question=e7b9742d-3e85-4e49-b7b3-f1b22355c6ff>

● EASY

● Max Score: 30 Points

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Sorting Problem 2

Given is an unsorted array of size n . Use the Bubble Sort algorithm to sort the given unsorted array.

Input Format

First line contains n , size of the array.

Second line contains n space separated unsorted array elements.

Output Format

Line containing n space separated sorted elements.

Example 1

Input

```
3
1 7 5
```

Output

```
1 5 7
```

Explanation

Bubble sort would move 7 at the end to give 1 5 7 as the sorted array.

Example 2

Input

```
5
4 1 3 9 7
```

Output

```
1 3 4 7 9
```

Explanation

The elements 4 and 9 are appropriately swapped to their position.

Constraints

$1 \leq n \leq 10^3$

$1 \leq \text{arr}[i] \leq 10^3$

Topic Tags

My code

```
// n java
```

```
import java.io.*;
```

```
import java.util.*;
```

```

class Accio {

    static void bubbleSort(int n, int arr[]){
        // write your code here

        for(int i=0; i<n-1; i++)
        {
            for(int j=0;j<(n-i-1);j++)
            {
                if(arr[j]>arr[j+1])
                {
                    int t=arr[j];
                    arr[j]=arr[j+1];
                    arr[j+1]=t;
                }

            }

        }

        for(int i=0; i<n; i++)
        {
            System.out.print(arr[i]+ " ");
        }
    }
}

```

```

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
    }
}

```

```
int n;  
n = sc.nextInt();  
int arr1[] = new int[n];  
for(int i=0;i<n;i++)  
    arr1[i] = sc.nextInt();  
Accio Obj = new Accio();  
Obj.bubbleSort(n, arr1);  
}  
}
```