https://course.acciojob.com/idle?question=320e3d1b-7900-4e66-b6b 9-46667cbdf2c4

- EASY
- Max Score: 30 Points
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Insertion Sort

Implement insertion sort.

Input Format

The first line contains one space separated integer n denoting the number of elements.

The Second line contains ${\tt N}$ space separated integers denoting the elements of the array.

You need to complete insertionSort function which contains a array of size n and print the final sorted array in this function only.

Output Format

Print the array in sorted fashion in sorted fashion.

Example 1

Input

```
6
7 6 8 5 4 9
```

Output

4 5 6 7 8 9

Explanation

Printed sorted array.

Example 2

Input

```
5
11 5 12 6 13
```

Output

5 6 11 12 13

Explanation

Printed sorted array.

Constraints

```
0 <= nums.length <= 10^4
-10^9 <= nums[i] <= 10^9</pre>
```

Topic Tags

- Sorting
- Arrays

My code

```
// in java
import java.util.*;
public class Main {
   public static void main(String[] args) {
      Scanner sc = new Scanner(System.in);
      int n= sc.nextInt();
      int array[] = new int[n];
      for(int i=0; i< n; i++){
         array[i]= sc.nextInt();
      }
      insertionSort(array,n);
  }
       static void insertionSort(int arr[], int n)
   {
      //Write your code here
            for(int i=0;i< n-1;i++)
                  {
                        if(arr[i+1]<arr[i])</pre>
                               int j=i+1;
                               while( j>0 && arr[j]<arr[j-1] )
                                           int t=arr[j];
                                           arr[j]=arr[j-1];
                                           arr[j-1]=t;
                                           j--;
```