




Java Programming

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```
3  int[] array = {3,1,4,1,5,9};
4
5  for (int i = 1; i < array.length; i++) {
6      int key = array[i];
7      int j=i-1;
8      while (j >= 0 && array[j] > key) {
9          array[j + 1] = array[j];
10         j--;
11     }
12     array[j + 1] = key;
13 }
14 for (int num : array){
15     System.out.print(num + " ");
16 }
17 }
18 }
```

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```
6 }
7 static void bubbleSort(int[] arr){
8     for(int i=0; i<arr.length-1; i++)
9         for(int j=0; j<arr.length-1-i; j++)
10             if(arr[j]>arr[j+1]){
11                 int temp=arr[j];
12                 arr[j]=arr[j+1];
13                 arr[j+1]=temp;
14             }
15 }
16 }
```



11 12 22 25 34 64 90



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```
6   if(num<first){
7       second=first;
8       first=num;
9   }else if(num<second && num!=first){
10      second=num;
11  }
12  }
13  System.out.println("The second smallest element is:"+second);
14  }
15  }
```



The second smallest element is:5



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```
6     if (array[i] < smallest)
7     {
8         smallest = array[i];
9     }
10 }
11 System.out.println("The smallest element in the array is:" + smallest);
12 }
13 }
```



The smallest element in the array is:1



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```
6 System.out.println("volume of the sphere:"+volume);  
7 }  
8 }
```

volume of the sphere:463433.14285756415

```
6     if (numbers[i] > max) {
7         max = numbers[i];
8     }
9 }
10 System.out.println("The largest element in the array is:" + max);
11 }
12 }
```



The largest element in the array is:89



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```
6     }  
7     System.out.println();  
8 }  
9 }  
10 }
```

```
1  
22  
333  
4444  
55555
```