

### Mock Test > viniciusvramirez0108@gmail.com

**Full Name:** Vinicius Valente Email: viniciusvramirez0108@gmail.com Test Name: **Mock Test** Taken On: 7 Jul 2024 08:06:05 IST Time Taken: 4 min 2 sec/ 10 min Invited by: Ankush 7 Jul 2024 08:05:48 IST Invited on: Skills Score: Tags Score: Algorithms 105/105 Core CS 105/105 Easy 105/105 Problem Solving 105/105

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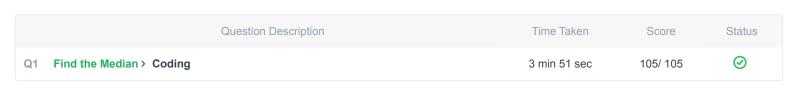
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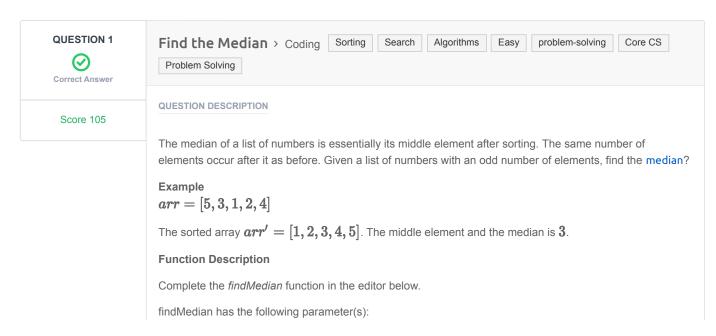
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# **Recruiter/Team Comments:**

No Comments.





• int arr[n]: an unsorted array of integers

#### Returns

int: the median of the array

### **Input Format**

The first line contains the integer n, the size of arr.

The second line contains  $m{n}$  space-separated integers  $m{arr}[m{i}]$ 

### Constraints

- $1 \le n \le 1000001$
- **n** is odd
- $-10000 \le arr[i] \le 10000$

### Sample Input 0

```
7
0 1 2 4 6 5 3
```

### Sample Output 0

3

### **Explanation 0**

The sorted arr = [0, 1, 2, 3, 4, 5, 6]. It's middle element is at arr[3] = 3.

#### **CANDIDATE ANSWER**

# Language used: Python 3

```
1 #
2 # Complete the 'findMedian' function below.
3 #
4 # The function is expected to return an INTEGER.
5 # The function accepts INTEGER ARRAY arr as parameter.
6 #
8 def quicksort(arr):
     if len(arr) <= 1:
         return arr
     else:
         pivot = arr[len(arr)//2]
         low = [x for x in arr if x < pivot]
14
         same = [x for x in arr if x == pivot]
          high = [x for x in arr if x > pivot]
          return quicksort(low) + same + quicksort(high)
20 def findMedian(arr):
      ordered arr = quicksort(arr)
      median = int(len(ordered arr) / 2)
24
      return ordered arr[median]
      # Write your code here
```

| TESTCASE   | DIFFICULTY | TYPE        | STATUS  | SCORE | TIME TAKEN | MEMORY USED |
|------------|------------|-------------|---------|-------|------------|-------------|
| Testcase 1 | Easy       | Sample case | Success | 0     | 0.0401 sec | 10.3 KB     |
| Testcase 2 | Easy       | Hidden case | Success | 35    | 0.0382 sec | 11.2 KB     |

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