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Test Name: Mock Test

Taken On: 26 Aug 2023 04:36:27 IST

Time Taken: 2 min 40 sec/ 10 min

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Invited by: Ankush

Invited on: 26 Aug 2023 04:36:21 IST

Skills Score:

Tags Score:

- Algorithms 105/105
- Core CS 105/105
- Easy 105/105
- Problem Solving 105/105
- Search 105/105
- Sorting 105/105
- problem-solving 105/105

100%

105/105

scored in **Mock Test** in 2 min 40 sec on 26 Aug 2023 04:36:27 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Find the Median > Coding	2 min 32 sec	105/ 105	✓

QUESTION 1

✓

Correct Answer

Score 105

Find the Median > Coding

Sorting Search Algorithms Easy problem-solving Core CS

Problem Solving

QUESTION DESCRIPTION

The median of a list of numbers is essentially its middle element after sorting. The same number of elements occur after it as before. Given a list of numbers with an odd number of elements, find the **median**?

**Example**

**arr** = [5, 3, 1, 2, 4]

The sorted array **arr'** = [1, 2, 3, 4, 5]. The middle element and the median is **3**.

**Function Description**

Complete the *findMedian* function in the editor below.

findMedian has the following parameter(s):

- `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  $n$  space-separated integers `arr[i]`

#### Constraints

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

#### 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 #
3 # Complete the 'findMedian' function below.
4 #
5 # The function is expected to return an INTEGER.
6 # The function accepts INTEGER_ARRAY arr as parameter.
7 #
8
9 def findMedian(arr):
10     # Write your code here
11     result = sorted(arr)
12     n = int(len(arr)/2)
13     return(result[n])
14
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✔ Success	0	0.0734 sec	10.5 KB
Testcase 2	Easy	Hidden case	✔ Success	35	0.0851 sec	11.3 KB
Testcase 3	Easy	Hidden case	✔ Success	35	0.082 sec	11.6 KB
Testcase 4	Easy	Hidden case	✔ Success	35	0.0765 sec	22.1 KB

No Comments

