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Test Name:	**Mock Test**
Taken On:	6 Aug 2021 02:07:56 IST
Time Taken:	8 min 17 sec/ 10 min
Invited by:	Ankush
Invited on:	6 Aug 2021 02:07:46 IST
Skills Score:	
Tags Score:	

100%

105/105

scored in **Mock Test** in 8 min 17 sec on 6 Aug 2021 02:07:56 IST

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

Recruiter/Team Comments:

No Comments.

Question Description	Time Taken	Score	Status
Q1 **Find the Median** > **Coding**	8 min 6 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**

```python
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  #
7
8  def findMedian(arr: list) -> int:
9      # Write your code here
10     sorted_arr = sorted(arr)
11     median_index = len(arr) // 2
12
13     median = sorted_arr[median_index]
14
15     return median
16
17
18
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✓ Success	0	0.042 sec	9.36 KB
Testcase 2	Easy	Hidden case	✓ Success	35	0.0496 sec	10 KB
Testcase 3	Easy	Hidden case	✓ Success	35	0.0413 sec	10.4 KB
Testcase 4	Easy	Hidden case	✓ Success	35	0.0931 sec	21.1 KB

No Comments

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