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Test Name:	**Mock Test**
Taken On:	13 Dec 2023 21:46:43 IST
Time Taken:	8 min 59 sec/ 15 min
Invited by:	Ankush
Invited on:	13 Dec 2023 21:40:23 IST
Skills Score:	
Tags Score:	

100%

105/105

scored in **Mock Test** in 8 min 59 sec on 13 Dec 2023 21:46:43 IST

Tag	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

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	**Find the Median** › **Coding**	8 min 46 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  #
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
11      arr = sorted(arr)
12      return arr[(len(arr) // 2)]
13
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✓ Success	0	0.0202 sec	10.4 KB
Testcase 2	Easy	Hidden case	✓ Success	35	0.025 sec	11.5 KB
Testcase 3	Easy	Hidden case	✓ Success	35	0.024 sec	11.9 KB
Testcase 4	Easy	Hidden case	✓ Success	35	0.0513 sec	22 KB

No Comments