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Test Name:	Mock Test
Taken On:	13 Jan 2024 15:26:25 IST
Time Taken:	8 min 27 sec/ 10 min
Invited by:	Ankush
Invited on:	13 Jan 2024 15:16:59 IST
Skills Score:	
Tags Score:	<div>Algorithms105/105</div> <div>Core CS105/105</div> <div>Easy105/105</div> <div>Problem Solving105/105</div> <div>Search105/105</div> <div>Sorting105/105</div> <div>problem-solving105/105</div>

100%

105/105

scored in **Mock Test** in 8 min 27 sec on 13 Jan 2024 15:26:25 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Find the Median > Coding	5 min 47 sec	105/ 105	✓

QUESTION 1

✓

Correct Answer

Score 105

Find the Median > Coding

SortingSearchAlgorithmsEasyproblem-solvingCore 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: **PyPy3**

```
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
12     arr.sort()
13     n= len(arr)
14
15     med=int(n/2)
16
17     return arr[med]
18
19
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✔ Success	0	0.1412 sec	64.9 KB
Testcase 2	Easy	Hidden case	✔ Success	35	0.1098 sec	66.1 KB
Testcase 3	Easy	Hidden case	✔ Success	35	0.0815 sec	66.2 KB
Testcase 4	Easy	Hidden case	✔ Success	35	0.349 sec	76.6 KB

No Comments

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