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Test Name:	Mock Test
Taken On:	13 Sep 2023 23:19:36 IST
Time Taken:	2 min 8 sec/ 10 min
Invited by:	Ankush
Invited on:	13 Sep 2023 23:19:06 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 2 min 8 sec on 13 Sep 2023 23:19:36 IST

Recruiter/Team Comments:

No Comments.

Plagiarism flagged

We have marked questions with suspected plagiarism below. Please review it in detail here -

	Question Description	Time Taken	Score	Status
Q1	Find the Median > Coding	2 min 1 sec	105/ 105	!

QUESTION 1

!

Needs Review

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: **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     sorted_numbers = sorted(arr)
11
12     # Calculate the length of the sorted list
13     n = len(sorted_numbers)
14
15     # Check if the list has an odd or even number of elements
16     if n % 2 == 1: # Odd number of elements
17         median = sorted_numbers[n // 2]
18     else: # Even number of elements
19         middle1 = sorted_numbers[n // 2 - 1]
20         middle2 = sorted_numbers[n // 2]
21         median = (middle1 + middle2) / 2.0
22
23     return median
24
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✔ Success	0	0.0446 sec	10.5 KB
Testcase 2	Easy	Hidden case	✔ Success	35	0.1275 sec	11.3 KB
Testcase 3	Easy	Hidden case	✔ Success	35	0.052 sec	11.9 KB
Testcase 4	Easy	Hidden case	✔ Success	35	0.1083 sec	22.3 KB

No Comments

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