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Test Name: Mock Test  
Taken On: 27 Mar 2024 13:51:44 IST  
Time Taken: 5 min 16 sec/ 10 min  
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Invited by: Ankush  
Invited on: 27 Mar 2024 13:45:31 IST

Skills Score:

Tags Score:

- Algorithms105/105
- Core CS105/105
- Easy105/105
- Problem Solving105/105
- Search105/105
- Sorting105/105
- problem-solving105/105

100%

105/105

scored in Mock Test in 5 min 16 sec on 27 Mar 2024 13:51:44 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Find the Median > Coding	4 min 56 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: **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     arr.sort()
12     n = len(arr)
13     mid = n//2
14     return arr[mid]
15
16
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	 Success	0	0.2925 sec	71.8 KB
Testcase 2	Easy	Hidden case	 Success	35	0.3186 sec	72.4 KB
Testcase 3	Easy	Hidden case	 Success	35	0.2585 sec	72 KB
Testcase 4	Easy	Hidden case	 Success	35	0.3371 sec	82 KB

No Comments

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