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Test Name:	Mock Test
Taken On:	17 Apr 2023 22:10:17 IST
Time Taken:	4 min 10 sec/ 10 min
Invited by:	Ankush
Invited on:	17 Apr 2023 22:03:53 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 4 min 10 sec on 17 Apr 2023 22:10:17 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Find the Median > Coding	3 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: **C++14**

```
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  int findMedian(vector<int> arr) {
10     sort(arr.begin(),arr.end());
11     int size=arr.size();
12     return arr[size/2];
13 }
14
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✔ Success	0	0.0334 sec	8.96 KB
Testcase 2	Easy	Hidden case	✔ Success	35	0.0281 sec	9.08 KB
Testcase 3	Easy	Hidden case	✔ Success	35	0.0509 sec	9.12 KB
Testcase 4	Easy	Hidden case	✔ Success	35	0.0493 sec	13.2 KB

No Comments