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Test Name:	Mock Test
Taken On:	25 Feb 2025 23:16:44 IST
Time Taken:	5 min 31 sec/ 10 min
Invited by:	Ankush
Invited on:	25 Feb 2025 23:13:04 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 5 min 31 sec on 25 Feb 2025 23:16:44 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Find the Median > Coding	5 min 18 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: JavaScript (Node.js)

```
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  function findMedian(arr) {
10     // Write your code here
11     arr.sort((a,b) => a - b);
12     let middleIndex = Math.floor(arr.length / 2);
13
14     if(arr.length % 2 == 0){
15         return (arr[middleIndex - 1] + arr[middleIndex]) / 2
16     }else{
17         return arr[middleIndex]
18     }
19 }
20
21
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✔ Success	0	0.0404 sec	38.9 KB
Testcase 2	Easy	Hidden case	✔ Success	35	0.0413 sec	40.5 KB
Testcase 3	Easy	Hidden case	✔ Success	35	0.0439 sec	41.7 KB
Testcase 4	Easy	Hidden case	✔ Success	35	0.096 sec	50.5 KB

No Comments

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PDF generated at: 25 Feb 2025 17:54:02 UTC