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Test Name: Mock Test

Taken On: 8 Nov 2024 23:47:25 IST

Time Taken: 7 min 34 sec/ 10 min

Invited by: Ankush

Invited on: 8 Nov 2024 23:47:10 IST

Skills Score:

Tags Score:

- Algorithms 105/105
- Core CS 105/105
- Easy 105/105
- Problem Solving 105/105
- Search 105/105
- Sorting 105/105
- problem-solving 105/105

100%

105/105

scored in **Mock Test** in 7 min 34 sec on 8 Nov 2024 23:47:25 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Find the Median > Coding	7 min 24 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: 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     const sortedArray = arr.sort((a,b) => a-b)
12     const n = arr.length
13     const index = (n+1)/2 - 1
14     const median = sortedArray[index]
15     return median
16
17 }
18
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✔ Success	0	0.0455 sec	39.1 KB
Testcase 2	Easy	Hidden case	✔ Success	35	0.0423 sec	43.1 KB
Testcase 3	Easy	Hidden case	✔ Success	35	0.0451 sec	41.8 KB
Testcase 4	Easy	Hidden case	✔ Success	35	0.0891 sec	50.4 KB

