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Test Name: Mock Test

Taken On: 15 May 2022 00:57:03 IST

Time Taken: 3 min 26 sec/ 10 min

Invited by: Ankush

Invited on: 15 May 2022 00:56:20 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 3 min 26 sec on 15 May 2022 00:57:03 IST

Recruiter/Team Comments:

No Comments.

| | Question Description | Time Taken | Score | Status |
|----|--------------------------|------------|----------|--------|
| Q1 | Find the Median > Coding | 3 min | 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: Python 3

```
1 #
2 # Complete the 'findMedian' function below.
3 #
4 # The function is expected to return an INTEGER.
5 # The function accepts INTEGER_ARRAY arr as parameter.
6 #
7
8 def findMedian(arr):
9     arr = sorted(arr)
10
11     length = len(arr)
12
13     middle = length // 2
14
15     return arr[middle]
16
17
```

| TESTCASE | DIFFICULTY | TYPE | STATUS | SCORE | TIME TAKEN | MEMORY USED |
|------------|------------|-------------|-----------|-------|------------|-------------|
| Testcase 1 | Easy | Sample case | ✔ Success | 0 | 0.0502 sec | 9.37 KB |
| Testcase 2 | Easy | Hidden case | ✔ Success | 35 | 0.07 sec | 9.99 KB |
| Testcase 3 | Easy | Hidden case | ✔ Success | 35 | 0.056 sec | 10.4 KB |
| Testcase 4 | Easy | Hidden case | ✔ Success | 35 | 0.1071 sec | 21.1 KB |

