Full Name:	Иван Иванов
Email:	ivan.iv.cv@gmail.com
Test Name:	**Mock Test**
Taken On:	2 Feb 2023 17:34:30 IST
Time Taken:	2 min 25 sec/ 15 min
Invited by:	Ankush
Invited on:	15 Jan 2023 21:35:23 IST
Skills Score:	
Tags Score:	

100%

105/105

scored in **Mock Test** in 2 min 25 sec on 2 Feb 2023 17:34:30 IST

Algorithms   105/105

Core CS   105/105

Easy   105/105

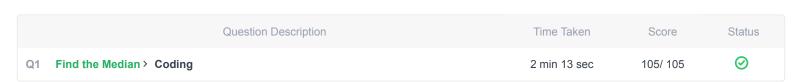Problem Solving   105/105

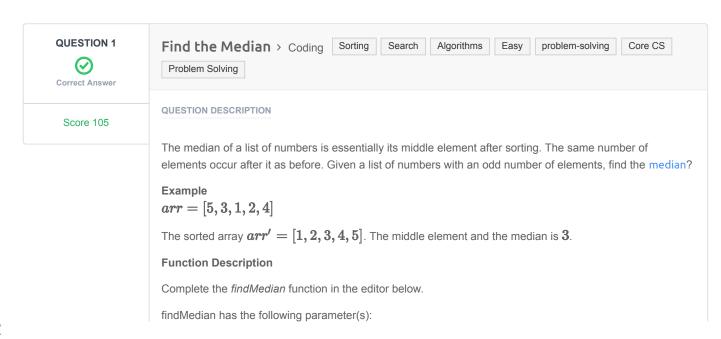Search   105/105

Sorting   105/105

problem-solving   105/105

Recruiter/Team Comments:

No Comments.

Question Description	Time Taken	Score	Status
Q1 Find the Median > Coding	2 min 13 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: **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       sorted_arr = sorted(arr)
10      return sorted_arr[len(sorted_arr) // 2]
11
12
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✓ Success	0	0.0634 sec	9.19 KB
Testcase 2	Easy	Hidden case	✓ Success	35	0.046 sec	9.89 KB
Testcase 3	Easy	Hidden case	✓ Success	35	0.0609 sec	10.2 KB
Testcase 4	Easy	Hidden case	✓ Success	35	0.1297 sec	20.8 KB

No Comments