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Test Name:

Mock Test

Taken On:

8 Nov 2022 01:21:50 IST

Time Taken:

6 min 20 sec/ 15 min

Invited by:

Ankush

Invited on:

7 Nov 2022 20:09:42 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 6 min 20 sec on 8 Nov 2022 01:21:50 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Find the Median > Coding	6 min 4 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 import math
9
10 def findMedian(arr):
11     # Write your code here
12     median = 0
13     arr.sort()
14     n = len(arr)
15     median = arr[math.floor(n/2)]
16     return median
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✔ Success	0	0.0603 sec	9.17 KB
Testcase 2	Easy	Hidden case	✔ Success	35	0.0587 sec	9.79 KB
Testcase 3	Easy	Hidden case	✔ Success	35	0.0985 sec	10.2 KB
Testcase 4	Easy	Hidden case	✔ Success	35	0.1225 sec	21 KB

No Comments

