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Test Name:

Mock Test

Taken On:

18 Aug 2022 07:01:18 IST

Time Taken:

5 min 24 sec/ 10 min

Resume:

https://hackerrank-resumes.s3.amazonaws.com/6748002/VqleUUT8sJA8XSCX4CDqswKEOuk7T0t6WKpMrxVLf68g8XOPFQyV6kNv9jq8EGeS-w/Artem_Ponomarev_ex_Microsoft__3_pages.pdf

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Invited by:

Ankush

Invited on:

18 Aug 2022 07:00:10 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 5 min 24 sec on 18 Aug 2022 07:01:18 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Find the Median > Coding	5 min 10 sec	105/ 105	✓

QUESTION 1

✓

Correct Answer

Find the Median > Coding

Sorting

Search

Algorithms

Easy

problem-solving

Core CS

Problem Solving

QUESTION DESCRIPTION

Score 105

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     # Write your code here
10    arr.sort()
11    return arr[len(arr)//2]
12
13
14
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
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Testcase 1	Easy	Sample case	 Success	0	0.0466 sec	9.28 KB
Testcase 2	Easy	Hidden case	 Success	35	0.0563 sec	9.73 KB
Testcase 3	Easy	Hidden case	 Success	35	0.0704 sec	10 KB
Testcase 4	Easy	Hidden case	 Success	35	0.1151 sec	20.8 KB

No Comments

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