Mock Test > krzysaaa7@gmail.com

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Test Name:	**Mock Test**
Taken On:	22 Dec 2021 05:40:35 IST
Time Taken:	5 min 3 sec/ 10 min
Invited by:	Ankush
Invited on:	22 Dec 2021 05:40:12 IST
Skills Score:	

100%

105/105

scored in **Mock Test** in 5 min 3 sec on 22 Dec 2021 05:40:35 IST

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

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Find the Median > **Coding**	4 min 43 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**

```python
#
# Complete the 'findMedian' function below.
#
# The function is expected to return an INTEGER.
# The function accepts INTEGER_ARRAY arr as parameter.
#

def findMedian(arr):
    # Write your code here

    arr.sort()
    arr_length = len(arr)
    middle_index = int(arr_length/2)
    median = 0
    if arr_length%2 != 0:
        median = arr[middle_index]
    else:
        median = (arr[middle_index] + arr[middle_index-1])/2

    return median


```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✓ Success	0	0.0471 sec	9.37 KB
Testcase 2	Easy	Hidden case	✓ Success	35	0.0841 sec	9.88 KB
Testcase 3	Easy	Hidden case	✓ Success	35	0.0827 sec	10.3 KB

Testcase 4	Easy	Hidden case	✓ Success	35	0.1228 sec	21.1 KB

No Comments

PDF generated at: 22 Dec 2021 00:16:56 UTC