



Full Name: Doli

Email: pastak100@gmail.com

Test Name: Mock Test

Taken On: 16 Jan 2024 22:55:17 IST

Time Taken: 3 min 44 sec/ 15 min

Linkedin: <https://www.linkedin.com/in/musab-oguz-68990a200/>

Invited by: Ankush

Invited on: 16 Jan 2024 21:16:16 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 44 sec on 16 Jan 2024 22:55:17 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Find the Median > Coding	3 min 25 sec	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: **C++14**

```
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  int findMedian(vector<int> arr) {
9      int med = arr.size()/2;
10
11      sort(arr.begin(), arr.end());
12
13      return arr.at(med);
14 }
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	 Success	0	0.1041 sec	8.56 KB
Testcase 2	Easy	Hidden case	 Success	35	0.0079 sec	9.02 KB
Testcase 3	Easy	Hidden case	 Success	35	0.0082 sec	9.04 KB
Testcase 4	Easy	Hidden case	 Success	35	0.1011 sec	13.3 KB

No Comments

