



Full Name:	Nicola Fiori
Email:	nicola@jd342.net
Test Name:	Mock Test
Taken On:	5 Feb 2024 23:54:21 IST
Time Taken:	6 min 30 sec/ 15 min
Invited by:	Ankush
Invited on:	5 Feb 2024 23:53:52 IST
Skills Score:	
Tags Score:	<div>Algorithms105/105</div> <div>Core CS105/105</div> <div>Easy105/105</div> <div>Problem Solving105/105</div> <div>Search105/105</div> <div>Sorting105/105</div> <div>problem-solving105/105</div>

100%

105/105

scored in **Mock Test** in 6 min 30 sec on 5 Feb 2024 23:54:21 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Find the Median > Coding	6 min 18 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: **C#**

```
1 class Result
2 {
3
4     /*
5      * Complete the 'findMedian' function below.
6      *
7      * The function is expected to return an INTEGER.
8      * The function accepts INTEGER_ARRAY arr as parameter.
9      */
10
11     public static int findMedian(List<int> arr)
12     {
13         arr.Sort();
14         var n = arr.Count;
15         return arr[(n - 1) / 2];
16     }
17
18 }
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✔ Success	0	0.0456 sec	20.8 KB
Testcase 2	Easy	Hidden case	✔ Success	35	0.0394 sec	21.5 KB
Testcase 3	Easy	Hidden case	✔ Success	35	0.0518 sec	21.8 KB
Testcase 4	Easy	Hidden case	✔ Success	35	0.0566 sec	29 KB

