Full Name:	Geraldo Jorge	
Email:	geraldo.gja@gmail.com	
Test Name:	**Mock Test**	
Taken On:	23 Aug 2022 20:36:29 IST	
Time Taken:	13 min 25 sec/ 15 min	
Invited by:	Ankush	
Invited on:	23 Aug 2022 19:59:57 IST	
Skills Score:		

100%

105/105

scored in **Mock Test** in 13 min 25 sec on 23 Aug 2022 20:36:29 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**	13 min 7 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):

1/3

- *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: **Java 8**

```java
1  class Result {
2
3      /*
4       * Complete the 'findMedian' function below.
5       *
6       * The function is expected to return an INTEGER.
7       * The function accepts INTEGER_ARRAY arr as parameter.
8       */
9
10     public static int findMedian(List<Integer> arr) {
11     // Write your code here
12         int middle = arr.size() / 2;
13         Collections.sort( arr );
14
15         return arr.get(middle);
16     }
17
18 }
19
20
```
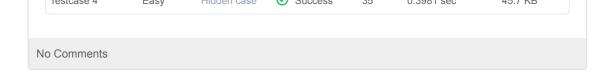
TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✓ Success	0	0.1502 sec	29.9 KB
Testcase 2	Easy	Hidden case	✓ Success	35	0.1827 sec	31.7 KB
Testcase 3	Easy	Hidden case	✓ Success	35	0.241 sec	32.5 KB
Testcase 4	Easy	Hidden case	✓ Success	35	0.3081 sec	45.7 KB

| Testcase 4 | Easy | Hidden case | ⊘ Success | 35 | 0.3981 sec | 45.7 KB |

No Comments