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Test Name:	**Mock Test**
Taken On:	25 May 2024 23:36:14 IST
Time Taken:	1 min 10 sec/ 10 min
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Invited by:	Ankush
Invited on:	25 May 2024 23:36:06 IST
Skills Score:	
Tags Score:	

100%

105/105

scored in **Mock Test** in 1 min 10 sec on 25 May 2024 23:36:14 IST

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**	1 min 1 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

- $1 \le n \le 1000001$
- n is odd
- $-10000 \le arr[i] \le 10000$

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
class Result {

    /*
     * Complete the 'findMedian' function below.
     *
     * The function is expected to return an INTEGER.
     * The function accepts INTEGER_ARRAY arr as parameter.
     */

    public static int findMedian(List<Integer> arr) {
    // Write your code here
    Collections.sort(arr);
    int n = arr.size();
    return arr.get(n/2);
    }

}
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✓ Success	0	0.1003 sec	30.9 KB
Testcase 2	Easy	Hidden case	✓ Success	35	0.15 sec	32.6 KB

| Testcase 3 | Easy | Hidden case | ✓ Success | 35 | 0.1384 sec | 33.2 KB |
| Testcase 4 | Easy | Hidden case | ✓ Success | 35 | 0.2583 sec | 46.5 KB |

No Comments