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Test Name: Mock Test

Taken On: 10 Mar 2023 01:35:15 IST

Time Taken: 8 min 49 sec/ 15 min

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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

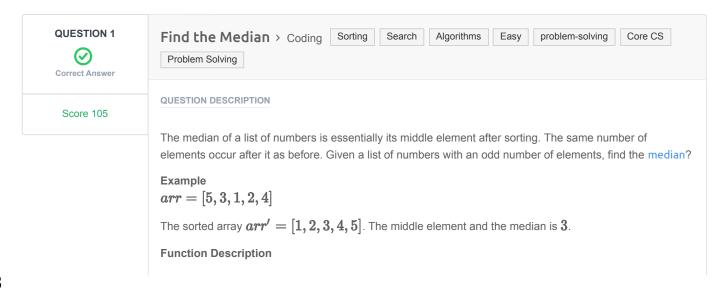


scored in **Mock Test** in 8 min 49 sec on 10 Mar 2023 01:35:15 IST

Recruiter/Team Comments:

No Comments.





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 $m{n}$ space-separated integers $m{arr}[i]$

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: TypeScript

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

function findMedian(arr: number[]): number {
    let median: number = 0;

    arr.sort((a, b) => a - b);

    console.log(arr);

    if(arr.length % 2 == 0) { // If array is pair
        median = (arr[arr.length / 2 - 1] + arr[arr.length / 2]) / 2
    } else { //If array is unpair
        median = arr[Math.floor(arr.length / 2)];
    }

    return median;
}
```

| Testcase 2 | Easy | Hidden case | Success | 35 | 0.0596 sec | 32.1 KB | |
|-------------|------|-------------|---------|----|------------|---------|--|
| Testcase 3 | Easy | Hidden case | Success | 35 | 0.0717 sec | 32.3 KB | |
| Testcase 4 | Easy | Hidden case | Success | 35 | 0.1068 sec | 41.7 KB | |
| No Comments | | | | | | | |
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