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Test Name:	**Mock Test**
Taken On:	23 Jan 2024 04:47:23 IST
Time Taken:	10 min 37 sec/ 15 min
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Invited by:	Ankush
Invited on:	23 Jan 2024 04:37:58 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 10 min 37 sec on 23 Jan 2024 04:47:23 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Find the Median > **Coding**	10 min 25 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: **JavaScript (Node.js)**

```
'use strict';

const fs = require('fs');

process.stdin.resume();
process.stdin.setEncoding('utf-8');

let inputString = '';
let currentLine = 0;

process.stdin.on('data', function (inputStdin) {
    inputString += inputStdin;
});

process.stdin.on('end', function () {
    inputString = inputString.split('\n');

    main();
});

function readLine() {
    return inputString[currentLine++];
}



/*
 * Complete the 'findMedian' function below.
 *
```

```
 * The function is expected to return an INTEGER.
 * The function accepts INTEGER_ARRAY arr as parameter.
 */

function findMedian(arr) {
    // Write your code here
    arr.sort((a, b)  =>(a-b))
    console.log(arr)

    return arr[(arr.length - 1 )/ 2]

}

function main() {
    const ws = fs.createWriteStream(process.env.OUTPUT_PATH);

    const n = parseInt(readLine().trim(), 10);

    const arr = readLine().replace(/\s+$/g, '').split(' ').map(arrTemp =>
parseInt(arrTemp, 10));

    const result = findMedian(arr);

    ws.write(result + '\n');

    ws.end();
}
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	Success	0	0.0378 sec	42 KB
Testcase 2	Easy	Hidden case	Success	35	0.0411 sec	43.7 KB
Testcase 3	Easy	Hidden case	Success	35	0.048 sec	44.9 KB
Testcase 4	Easy	Hidden case	Success	35	0.0853 sec	55.5 KB

No Comments