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Test Name:	Mock Test
Taken On:	30 Jul 2025 22:08:13 IST
Time Taken:	1 min 31 sec/ 10 min
Invited by:	Ankush
Invited on:	30 Jul 2025 22:08:06 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 1 min 31 sec on 30 Jul 2025 22:08:13 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Find the Median > Coding	1 min 15 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
2  /*
3   * Complete the 'findMedian' function below.
4   *
5   * The function is expected to return an INTEGER.
6   * The function accepts INTEGER_ARRAY arr as parameter.
7   */
8
9 int findMedian(int n, int* m) {
10     int i, less, greater, equal;
11     int min, max, guess, maxltguess, mingtguess;
12
13     min = max = m[0] ;
14     for (i=1 ; i<n ; i++) {
15         if (m[i]<min) min=m[i];
16         if (m[i]>max) max=m[i];
17     }
18
19     while (1) {
20         guess = (min+max)/2;
21         less = 0; greater = 0; equal = 0;
22         maxltguess = min ;
23         mingtguess = max ;
24         for (i=0; i<n; i++) {
25             if (m[i]<guess) {
26                 less++;
27                 if (m[i]>maxltguess) maxltguess = m[i] ;
28             } else if (m[i]>guess) {
29                 greater++;
30                 if (m[i]<mingtguess) mingtguess = m[i] ;
```

```

31         } else equal++;
32     }
33     if (less <= (n+1)/2 && greater <= (n+1)/2) break ;
34     else if (less>greater) max = maxltguess ;
35     else min = mingtguess;
36 }
37 if (less >= (n+1)/2) return maxltguess;
38 else if (less+equal >= (n+1)/2) return guess;
39 else return mingtguess;
40 }
41

```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✔ Success	0	0.0083 sec	7.13 KB
Testcase 2	Easy	Hidden case	✔ Success	35	0.008 sec	7.38 KB
Testcase 3	Easy	Hidden case	✔ Success	35	0.0099 sec	7.38 KB
Testcase 4	Easy	Hidden case	✔ Success	35	0.0237 sec	8.63 KB

No Comments