CS23331-Design and Analysis of Algorithms-2023 Batch-CS

Quiz navigation

1

Finish review

Status	Finished
Started	Wednesday, 19 March 2025, 11:02 PM
Completed	Wednesday, 19 March 2025, 11:02 PM
Duration	36 secs
Marks	1.00/1.00
Grade	**10.00** out of 10.00 (**100**%)

Question **1**

Correct

Mark 1.00 out of 1.00

Flag question

Given an array `nums` of size `n`, return *the majority element.*

The majority element is the element that appears more than `n / 2` times. You may assume that the majority element always exists in the array.

Example 1:

```
Input: nums = [3,2,3]
Output: 3
```

Example 2:

```
Input: nums = [2,2,1,1,1,2,2]
Output: 2
```

Constraints:

- `n == nums.length`
- $1 <= n <= 5 * 10^4$
- $-2^{31} <= nums[i] <= 2^{31} - 1$

For example:

Input	Result
3 3 2 3	3
7 2 2 1 1 1 2 2	2

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int n;
    scanf("%d",&n);
    int num[n];
    for(int i=0;i<n;i++){
        scanf("%d",&num[i]);
    }
    int count=0,majority;
    for(int i=0;i<n;i++){
        if(count == 0)
            majority = num[i];
        count+=(num[i] == majority)? 1 : -1;
    }
    printf("%d\n",majority);
    return 0;
}
```

	Input	Expected	Got	
	3 3 2 3	3	3	

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review

◄ 1-Number of Zeros in a Given Array

Jump to...

3-Finding Floor Value ►