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CS23331-DAA-2024-CSE / 2-Majority Element

2-Majority Element

Started on	Tuesday, 30 September 2025, 10:09 PM
State	Finished
Completed on	Tuesday, 30 September 2025, 10:15 PM
Time taken	6 mins 30 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

Question 1 | Correct Mark 1.00 out of 1.00

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

The majority element is the element that appears more than $\lceil \frac{n}{2} \rceil$ 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:

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

For example:

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

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2
3 int majorityElement(int arr[], int size) {
4     int count = 0, candidate = 0;
5     for (int i = 0; i < size; i++) {
6         if (count == 0) {
7             candidate = arr[i];
8             count = 1;
9         } else if (arr[i] == candidate) {
10            count++;
11        } else {
12            count--;
13        }
14    }
15    return candidate;
16 }
17
18 int main() {
19     int n;
20     scanf("%d", &n);
21     int arr[n];
22     for(int i = 0; i < n; i++) {
23         scanf("%d", &arr[i]);
24     }
25     printf("%d\n", majorityElement(arr, n));
26     return 0;
27 }
```

Input

Expected

Got

✓	3	3	3	3	✓
	3	2	3		

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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