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

☑ 2-Majority Element

Started on	Wednesday, 17 September 2025, 8:28 AM
State	Finished
Completed on	Wednesday, 17 September 2025, 8:43 AM
Time taken	14 mins 37 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:

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 majorityElement(int* nums, int numsSize) {
    int count = 0;
    int candidate = 0;

    for (int i = 0; i < numsSize; i++) {
        if (count == 0) {
            candidate = nums[i];
        }
        count += (nums[i] == candidate) ? 1 : -1;
    }

    return candidate;
}

int main() {
    int n;
    scanf("%d", &n);
```

```
21        int nums[n];
22 ▾      for (int i = 0; i < n; i++) {
23            scanf("%d", &nums[i]);
24        }
25
26        int result = majorityElement(nums, n);
27        printf("%d\n", result);
28
29        return 0;
30  }
```

	Input	Expected	Got	
✔	3 3 2 3	3	3	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Finish review

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