

2-Majority Element

Started on	Friday, 19 September 2025, 2:22 PM
State	Finished
Completed on	Saturday, 20 September 2025, 8:50 PM
Time taken	1 day 6 hours
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 $\lfloor n / 2 \rfloor$ 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`
- $1 \leq n \leq 5 \cdot 10^4$
- $-2^{31} \leq \text{nums}[i] \leq 2^{31} - 1$

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 n) {
4 //     int count = 0, candidate = 0;
5
6 //     for (int i = 0; i < n; i++) {
7 //         if (count == 0) {
8 //             candidate = arr[i];
9 //         }
10 //         if (arr[i] == candidate)
11 //             count++;
12 //         else
13 //             count--;
14 //     }
15
16 //     return candidate;
17 // }
18
19 // int main() {
20 //     int n;
21 //     scanf("%d", &n);
22
23 //     int arr[n];
24 //     for (int i = 0; i < n; i++) {
25 //         scanf("%d", &arr[i]);
26 //     }
27
28 //     printf("%d\n", majorityElement(arr, n));
29 // }
30
31 #include <stdio.h>
32 #include <stdlib.h>
33
34 int cmpfunc(const void* a, const void* b) {
35     return (*(int*)a - *(int*)b);
36 }
37
38 int majorityElement(int* nums, int n) {
39     qsort(nums, n, sizeof(int), cmpfunc);
40     return nums[n / 2];
41 }
```

```
42
43 int main() {
44     int n;
45     scanf("%d", &n);
46
47     int nums[n];
48     for (int i = 0; i < n; i++) {
49         scanf("%d", &nums[i]);
50     }
51
52     printf("%d\n", majorityElement(nums, n));
```

	Input	Expected	Got	
✓	3	3	3	✓
	3 2 3			

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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