



Started on	Monday, 22 September 2025, 3:43 PM
State	Finished
Completed on	Monday, 22 September 2025, 3:52 PM
Time taken	9 mins 5 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 $\lfloor n / 2 \rfloor$ 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 <= n <= 5 * 104`
- `-231 <= nums[i] <= 231 - 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  int maj(int a[],int l,int h){
3      if(l==h)
4          return a[l];
5      int m=(l+h)/2;
6      int lm=maj(a,l,m);
7      int rm=maj(a,m+1,h);
8      if(lm==rm)
9          return lm;
10     return (lm>rm)? lm:rm;
11 }
12 int main()
13 {
14     int n;
15     scanf("%d",&n);
16     int a[n];
17     for(int i=0;i<n;i++){
18         scanf("%d",&a[i]);
19     }
20     printf("%d",maj(a,0,n-1));
21 }
```

	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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