Dashboard / My courses / CS23331-DAA-2023-CSE / Divide and Conquer / 2-Majority Element

Started on	Friday, 13 September 2024, 1:40 PM
State	Finished
Completed on	Friday, 20 September 2024, 1:45 PM
Time taken	7 days
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`
- $1 <= n <= 5 * 10^4$
- $-2^{31} <= nums[i] <= 2^{31} - 1$

For example:

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

Answer: (penalty regime: 0 %)

```c
1   #include<stdio.h>
2
3   int main(){
4       int m;
5       scanf("%d",&m);
6       int arr[m],c1=0,c2=0;
7       for(int i=0;i<m;i++)
8       {
9           scanf("%d",&arr[i]);
10      }
11      int mid=(m-1)/2;
12      int x=arr[0],y=arr[m-1];
13      for(int i=0;i<mid;i++)
14      {
15          if(arr[i]==x || arr[mid+i]==x)
16          c1++;
17          else
18          c2++;
19      }
20      if(c1>c2)
21      printf("%d",x);
22      else
23       printf("%d",y);
24
25
26  }
27
```

	Input	Expected	Got	
✔	3 3 2 3	3	3	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

◄ 1-Number of Zeros in a Given Array

Jump to...

3-Finding Floor Value ►