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Leetcode May Challenge DAY: 06

1. Python

class Solution:

def majorityElement(self, nums: List[int]) -> int:

d=dict()

for num in nums:

if(num in d):

d[num]+=1

else:

d[num]=1

n=len(nums)

for key,value in d.items():

if(value> n//2):

return (key)

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2. C++

class Solution {

public:

int majorityElement(vector<int>& nums) {

int majorityNum = -1;

int candidate = nums[0];

int count = 1;

for (int i = 1; i < (int)nums.size(); i++) {

int num = nums[i];

if (num == candidate) ++count;

else --count;

if (count == 0) {

candidate = num;

count = 1;

}

}

majorityNum = candidate;

return majorityNum;

}

};

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3. JAVA

```
public int majorityElement(int[] nums) {  
    Arrays.sort(nums);  
    int majors=(nums.length%2==1)?nums.length/2+1:nums.length/2;  
  
    if(nums.length>1){  
        return nums[majors-1];  
    }  
    else{  
        return nums[0];  
    }  
}
```