

169. Majority Element

APPROACH => MOORE VOTING ALGORITHM

2 VARIABLE LELO 1 FOR COUNT AND 1 FOR ELE

AGAR COUNT==0 TO ELEM ME ARR[I] DAAL DO

AGAR ARR[I] == ELE KE TO COUNT++ ELSE COUNT KO -- KARDO

ISSE STEP SE ELEMT MIL JAYEGA

NEXT STEP ME IS ELEMT KA COUNT CALCULATE KARLO BY RUNNI A FOR LOOP

NOW CHECK IF COUNT $N/2$ SE BADA HAI TO ELE RETURN NHI TO -1

```

1  class Solution {
2  public:
3      int majorityElement(vector<int>& nums) {
4
5          int count=0;
6          int ele=nums[0];
7          for(int i=0;i<nums.size();i++){
8              if(count==0){
9                  ele=nums[i];
10             }
11
12             if(nums[i]==ele){
13                 count++;
14             }else{
15                 count--;
16             }
17         }
18         count=0;
19         for(int i=0;i<nums.size();i++){
20             if(nums[i]==ele){
21                 count++;
22             }
23         }
24         if(count>nums.size()/2){
25             return ele;
26         }else{
27             return -1;
28         }
29     }

```

ed to local

NOW CHECK
KARDO NHI TO -1

TURN