DATE

LEETCODE 169 | ARRAYS

Majority Element

Input : nums = [2,2,1,1,1,2,2]; Output : 2

majority → occurrence > nums.length/2

Approach 1:- 1) Create a HashMap of <Integer, Integer>
↑ nums[i], ↑ count

by iterating nums

2) Loop Hashmap & check which no's count > nums.length/2

TC → O(N+N) = O(2N)

SC → O(N)

Approach 2:- Moore's Voting Algorithm

1) Loop nums & maintain count
2) Let nums[0] be majority element (major) m = 2
3) When major == nun[i] → count++
else count--;
4) If count == 0; m = nums[i]
5) Return m which could be answer

TC - O(N)

SC - O(1)