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169. Majority Element
                                       Solved @
                                                1) Easy Solution
Companies
                                                   - Create a hashmap
Given an array nums of size n, return the majority element.
                                                      for the counts
The majority element is the element that appears more than In / 21
                                                   -> Iterate over nums
times. You may assume that the majority element always exists in the
                                                        -> If num is
                                                        in hashmap, increase its count by 1.
Example 1:
                                                       - If num is not
 Input: nums = [3,2,3]
 Output: 3
                                                         in hashmap, add
                                                         it (with acount of 1)
Example 2:
 Input: nums = [2,2,1,1,1,2,2]
                                                  Here's the hashmapafter
 Output: 2
                                                  sterating over nums.
                                                 nums = [2, 2, 1, 1, 1, 2, 2]
Constraints:
• n == nums.length
                                                counts = { } // empty.
• 1 <= n <= 5 * 10<sup>4</sup>
• -10^9 <= nums[i] <= 10^9
                                7=5
                                counts = { 2:3, 1:3}
 counts = { 2:1 }
                                 うこ ら
 12 1
                                 counts = { 2:4, 1:3 }
counts = { 2:2 }
                                       after for-loop, hushmap
 counts = { 2:2, 1:1}
                                         counts contains all nums and
                                         its counts
                                  Final step is iterating over hashmap
  counts = { 2:2, 1:2 }
                                   Keys (1,2) and getting the max
 counts = { 2:2, 1:3 }
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2) Ingemous Solution - Moore's Algorithm. -> Count = 0 -> majority Element = 0 Iterate X over nums if count == 0 majority Element = 1

if X == majority Element Coun+++; else Coun+--;

return ingjority Element.

Example: