Array #1

Leetcode #485

Max Consecutive Ones

https://leetcode.com/problems/max-consecutive-ones/description/

Given a binary array nums, return the maximum number of consecutive 1's in the array

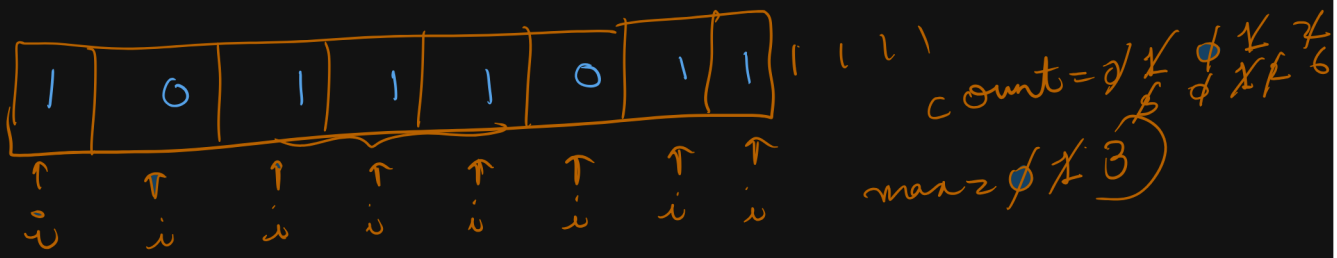
Example 1:
Input: nums = [1, 1, 0, 1, 1, 1]
Output: 3

Example 2:
Input: nums = [1, 0, 1, 1, 0, 1]
Output: 2

Constraints:
1 <= nums.length <= 10^5
nums[i] is either 0 or 1

Companies:
Amazon, Google, Adobe, Apple, etc

Approach:
Easy question
In a loop, Keep count of 1, then reset it when you anything other than 1
When you see something other than 1, calculate maximum count
After the loop, just calculate the maximum again




```
class Solution {
    public int findMaxConsecutiveOnes(int[] nums) {
        int count = 0,
            max = 0;

        for (int i = 0; i < nums.length; i++) {
            if (nums[i] == 1) {
                count += 1;
            } else {
                max = Math.max(max, count);
                count = 0;
            }
        }
        return Math.max(max, count);
    }
```

Time complexity:
O(N)
Space complexity:
O(1)