### Max Consecutive Ones

Given a binary array, find the maximum number of consecutive 1s in this array.

## Example 1:

Input: [1,1,0,1,1,1]

Output: 3

Explanation: The first two digits or the last three digits are consecutive 1s.

The maximum number of consecutive 1s is 3.

#### **Note:**

- The input array will only contain 0 and 1.
- The length of input array is a positive integer and will not exceed 10,000

```
public int findMaxConsecutiveOnes(int[] nums) {
   int maxHere = 0, max = 0;
   for (int n : nums)
      max = Math.max(max, maxHere = n == 0 ? 0 : maxHere + 1);
   return max;
}
```

The idea is to reset maxHere to 0 if we see 0, otherwise increase maxHere by 1
The max of all maxHere is the solution

```
110111
^ maxHere = 1

110111
.^ maxHere = 2

110111
..^ maxHere = 0

110111
...^ maxHere = 1

110111
...^ maxHere = 2

110111
....^ maxHere = 3
```

We can also solve this problem by setting k = 0 of Max Consecutive Ones II written by yuxiangmusic original link here

## Solution 2

This is a really easy problem. No explanation:)

written by shawngao original link here

# Solution 3

```
class Solution(object):
    def findMaxConsecutiveOnes(self, nums):
        cnt = 0
        ans = 0
        for num in nums:
            if num == 1:
                cnt += 1
                ans = max(ans, cnt)
        else:
                cnt = 0
        return ans
```

written by Ipeq1 original link here

From Leetcoder.