

## 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

## Solution 1

```
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](#)

## Solution 2

```
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
```

written by [yuxiangmusic](#) original link [here](#)

## Solution 3

```
int findMaxConsecutiveOnes(int* nums, int numsSize) {
    int i, count, max;

    max = count = 0;
    for (i = 0 ; i < numsSize ; ++i)
        if (nums[i])
            if (++count > max) max = count;
        else count = 0;

    return max;
}
```

written by [cifer-lee](#) original link [here](#)

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