[每日 LeetCode] 26. Remove Duplicates from Sorted Array

Description：

Given a sorted array nums , remove the duplicates **in-place** such that each element appear on
y_once_and return the new length.

Do not allocate extra space for another array, you must do this by **modifying the input array
[in-place] (https://en.wikipedia.org/wiki/In-place_algorithm)** with O(1) extra memory.

Example 1:

Given nums = [1,1,2],

Your function should return length = 2, with the first two elements of nums being 1 and 2 re
pectively.

It doesn't matter what you leave beyond the returned length.

Example 2:

Given nums = [0,0,1,1,1,2,2,3,3,4],

Your function should return length = 5, with the first five elements of nums being modified to
0, 1, 2, 3 and 4 respectively.

It doesn't matter what values are set beyond the returned length.

思路：本题要求去除已排序数组中重复的元素，并返回数组大小。考虑从前往后找，找到一个和前一
数字不同的就放到前面，相同的话不予处理。

C++代码

```cpp
class Solution {
public:
    int removeDuplicates(vector<int>& nums) {
        if(nums.size()==0) return 0;
        int len = 1;
        for(int i=1;i<nums.size();i++){

            if(nums[i]!=nums[i-1]){
                nums[len++] = nums[i];
            }
        }
        return len;
    }
};
```

运行时间：32ms

运行内存：10.7M