

Description

Solution

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Submissions

i C++

Autocomplete

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26. Remove Duplicates from Sorted Array

Easy

2903

5704

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Given a sorted array *nums*, remove the duplicates **in-place** such that each element appear only *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** 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 respectively.

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.

Clarification:

Confused why the returned value is an integer but your answer is an array?

Note that the input array is passed in by **reference**, which means modification to the input array will be known to the caller as well.

Internally you can think of this:

```
// nums is passed in by reference. (i.e., without making a copy)
int len = removeDuplicates(nums);

// any modification to nums in your function would be known by the caller.
```

```
1 class Solution {
2 public:
3     int removeDuplicates(vector<int>& a) {
4         if(a.size()==0)
5             return 0;
6         int sp=0;
7         for(int i=1;i<a.size();i++){
8             if(a[i]!=a[sp]){
9                 sp++;
10                a[sp]=a[i];
11            }
12        }
13        return sp+1;
14    }
15 }
16 
```

Testcase

Run Code Result

Debuggger

Accepted Runtime: 0 ms

Your input [1,1,2]

Output [1,2]

Expected [1,2]

Diff