

# 026. Remove Duplicates from Sorted Array

## 026 Remove Duplicates from Sorted Array

- Two pointers+array

### Description

Given a sorted array, 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:**

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 new length.

### 1. Thought line

### 2. Two pointers+array

```
class Solution {
public:
    int removeDuplicates(vector<int>& nums) {
        if (nums.size() <= 1) return nums.size();

        for (auto st = nums.begin()+1; st != nums.end();){
            if (*st != *(st-1)) ++st;
            else nums.erase(st);
        }
        return nums.size();
    }
};
```