

## Remove Duplicates from Sorted Array - LeetCode

笔记本: 来自小程序「印象笔记」

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## 26. Remove Duplicates from Sorted Array

Given an integer array `nums` sorted in **non-decreasing order**, remove the duplicates **in-place** such that each unique element appears only **once**. The **relative order** of the elements should be kept the **same**. Then return *the number of unique elements in* `nums`.

Consider the number of unique elements of `nums` to be `k`, to get accepted, you need to do the following things:

- Change the array `nums` such that the first `k` elements of `nums` contain the unique elements in the order they were present in `nums` initially. The remaining elements of `nums` are not important as well as the size of `nums`.
- Return `k`.

### Custom Judge:

The judge will test your solution with the following code:

```
int[] nums = [...]; // Input array
int[] expectedNums = [...]; // The expected answer with correct length

int k = removeDuplicates(nums); // Calls your implementation

assert k == expectedNums.length;
for (int i = 0; i < k; i++) {
    assert nums[i] == expectedNums[i];
}
```

If all assertions pass, then your solution will be **accepted**.

### Example 1:

**Input:** `nums = [1,1,2]`

**Output:** `2, nums = [1,2,_]`

**Explanation:** Your function should return `k = 2`, with the first two elements of `nums` being 1 and 2 respectively. It does not matter what you leave beyond the returned `k` (hence they are underscores).

### Example 2:

**Input:** `nums = [0,0,1,1,1,2,2,3,4]`

**Output:** `5, nums = [0,1,2,3,4,_,_,_,_]`

**Explanation:** Your function should return `k = 5`, with the first five elements of `nums` being 0, 1, 2, 3, and 4 respectively. It does not matter what you leave beyond the returned `k` (hence they are underscores).

### Constraints:

- $1 \leq \text{nums.length} \leq 3 \times 10^4$
- $-100 \leq \text{nums}[i] \leq 100$
- `nums` is sorted in **non-decreasing order**.