

26. Remove Duplicates from Sorted Array

// code

```
class Solution {  
public:  
    int removeDuplicates(vector<int>& nums) {  
        int n = nums.size();  
        if (n == 0) return 0;  
        int k = 1;  
        for (int i = 1; i < n; i++) {  
            if (nums[i] != nums[k - 1]) {  
                nums[k] = nums[i];  
                k++;  
            }  
        }  
        return k;  
    }  
};
```

The screenshot displays the LeetCode interface for the problem "26. Remove Duplicates from Sorted Array". The left sidebar contains the problem description, which states: "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`." It also includes a hint: "Consider the number of unique elements of `nums` to be `k`, to get accepted, you need to do the following things: 1. 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`. 2. Return `k`." Below the hint is a "Custom Judge" section with the test 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++) {
```

The main content area shows the C++ solution code:

```
int removeDuplicates(vector<int>& nums) {
    int n = nums.size();
    if (n == 0) return 0;
    int k = 1;
    for (int i = 1; i < n; i++) {
        if (nums[i] != nums[k - 1]) {
            nums[k] = nums[i];
            k++;
        }
    }
    return k;
}
```

The right sidebar displays the submission results. It shows "Accepted" status with "362 / 362 testcases passed". The user "Rahul kumar" submitted the solution on Jan 21, 2025, at 22:19. The performance metrics are: Runtime: 0 ms (Beats 100.00%), Memory: 22.56 MB (Beats 78.54%). A progress bar indicates 100% completion. The bottom section shows the test results for "Case 1" and "Case 2", both of which passed.