



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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Experiment1.1

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Branch: CSE

Section/Group: 701_A

Semester: 6TH

Date of Performance: 14th Feb 2023

Subject Name: Competitive Programming

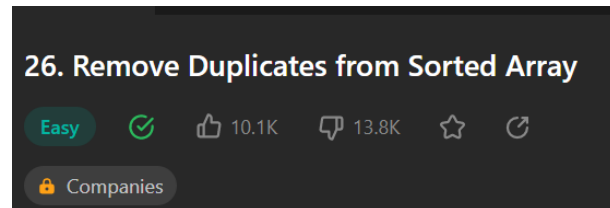
Subject Code: 20CSP_351

1. Aim:

To implement the concept of Arrays, Queues and Stack and Linked List

Question:

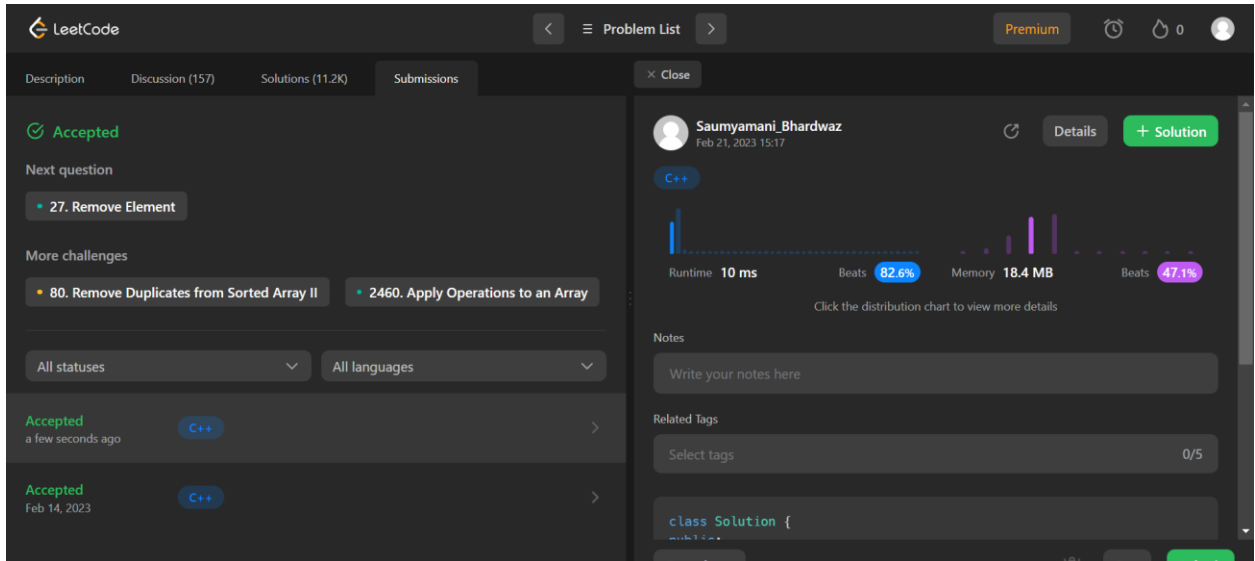
1. Remove Duplicates from Sorted List II



2. Code:

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

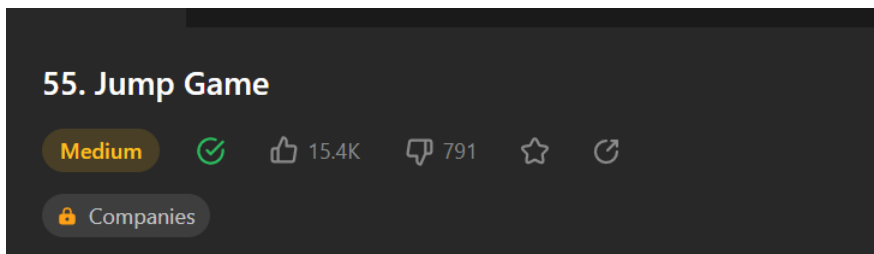
3. Output:



The screenshot shows the LeetCode interface for problem 27, "Remove Element". The submission is marked as "Accepted". The user's profile is "Saumyamani_Bhardwaz" with a submission time of "Feb 21, 2023 15:17". The submission details show a runtime of "10 ms", beats "82.6%", memory of "18.4 MB", and beats "47.1%". The problem description and more challenges are visible on the left, and the solution code is partially visible on the right.

Question:

2. Implement Jump Game



The screenshot shows the LeetCode problem page for "55. Jump Game". The problem is rated "Medium" and has a green checkmark indicating it is solved. It has 15.4K likes, 791 comments, and is tagged as "Companies".

Code:

```
class Solution {
public:
    bool canJump(vector<int>& nums)
    {
        int maximum = 0;

        for (int i = 0; i < nums.size(); i++) {

            if (i > maximum) {
                return false;
            }
        }
    }
}
```



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```
maximum = max(maximum,i+nums[i]);  
}  
return true;  
}  
};
```

Output:

The screenshot shows a LeetCode submission interface. The top navigation bar includes the LeetCode logo, a 'Problem List' button, a 'Premium' badge, and user avatars. The main content area is divided into two panels. The left panel shows the submission status as 'Accepted' for problem 56, 'Merge Intervals'. It also lists 'Next question' and 'More challenges' with buttons for '45. Jump Game II', '1306. Jump Game III', and '1871. Jump Game VII'. The right panel displays the user profile for 'Saumyamani_Bhardwaz' with a 'Details' button and a '+ Solution' button. Below the profile, there is a performance summary showing 'Runtime 84 ms' (Beats 29.24%) and 'Memory 48.3 MB' (Beats 79.75%). A distribution chart is also visible. At the bottom, there is a 'Notes' section with a text input field and a 'Related Tags' section with a 'Select tags' dropdown.