
 Marwadi University	Marwadi University Faculty of Technology Department of Information and Communication Technology	
Sem : 3	Name : VEDANT BHARAD	
Day : 57	Date : 13/12/2022	Enrollment No: 92100133023

CP Club 365Days Challenge

Programming language – C++


Problem Statement

[https://practice.geeksforgeeks.org/problems/leaders-in-an-array-1587115620/1?page=1&difficulty\[\]=0&sortBy=submissions](https://practice.geeksforgeeks.org/problems/leaders-in-an-array-1587115620/1?page=1&difficulty[]=0&sortBy=submissions)

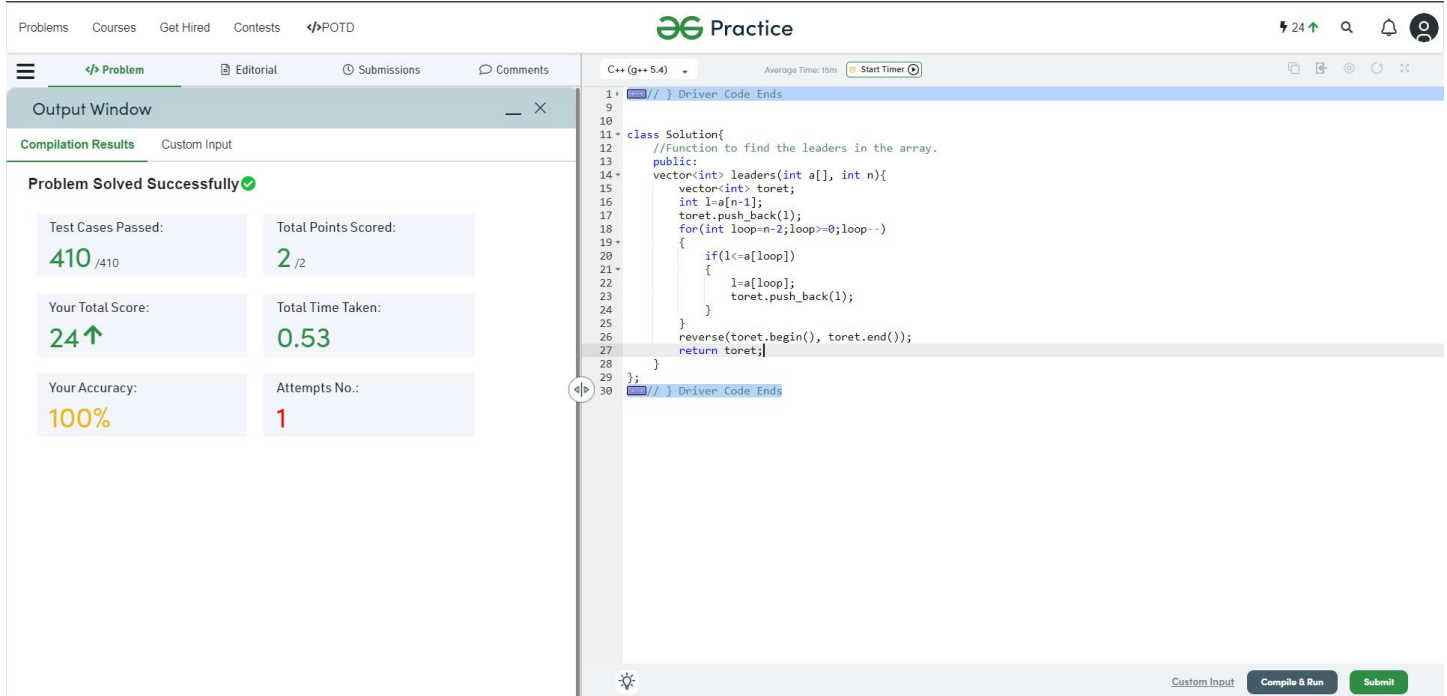
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Your Code:

```
// 0x57Day of 0x365Days challenge
// VEDANT BHARAD
// 13-12-2022
//{ Driver Code Starts
// C++ program to remove recurring digits from
// a given number
#include <bits/stdc++.h>
using namespace std;
// } Driver Code Ends
class Solution{
    //Function to find the leaders in the array.
public:
    vector<int> leaders(int a[], int n){
        vector<int> toret;
        int l=a[n-1];
        toret.push_back(l);
        for(int loop=n-2;loop>=0;loop--){
            if(l<=a[loop]){
                l=a[loop];
                toret.push_back(l);
            }
        }
        reverse(toret.begin(), toret.end());
        return toret;
    }
};
//{ Driver Code Starts.
int main()
{
    long long t;
    cin >> t;//testcases
    while (t-->0)
    {
        long long n;
        cin >> n;//total size of array
        int a[n];
        //inserting elements in the array
        for(long long i =0;i<n;i++){
            cin >> a[i];
        }
        Solution obj;
        //calling leaders() function
        vector<int> v = obj.leaders(a, n);
        //printing elements of the vector
        for(auto it = v.begin();it!=v.end();it++){
            cout << *it << " ";
        }
        cout << endl;
    }
}
// } Driver Code Ends
```

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Output (Screen Shot):



The screenshot shows a C++ practice interface. On the left, the 'Output Window' displays 'Problem Solved Successfully' with a green checkmark. Below this, statistics are shown: Test Cases Passed: 410/410, Total Points Scored: 2/2, Your Total Score: 24 (up arrow), Total Time Taken: 0.53, Your Accuracy: 100%, and Attempts No.: 1. The main editor shows a C++ solution for finding leaders in an array. The code uses a vector to store potential leaders, iterates from the end of the array, and updates the current leader if a larger number is found. The solution is enclosed in a class 'Solution' with a public method 'leaders'.

```

1 // } Driver Code Ends
2
3
4
5
6
7
8
9
10
11 class Solution{
12     //Function to find the leaders in the array.
13     public:
14     vector<int> leaders(int a[], int n){
15         vector<int> toret;
16         int l=a[n-1];
17         toret.push_back(l);
18         for(int loop=n-2;loop>=0;loop--){
19             if(l<=a[loop])
20             {
21                 l=a[loop];
22                 toret.push_back(l);
23             }
24         }
25         reverse(toret.begin(), toret.end());
26         return toret;
27     }
28 }
29 // } Driver Code Ends
30

```

Understanding about problem:

- In this task I need to return one int vector in which there are leader number
- For the leader first leader will be right most number and after that for next leader I need to check from last to first in array if the number is greater then or equal to current leader number then next leader will be that number.

Note: If you can't understand the problem, feel free to contact us and we'll help you. Please don't copy and paste from anywhere.

ALL THE BEST

Team CP Club