
 <b>Marwadi</b> University	<b>Marwadi University</b> <b>Faculty of Technology</b> <b>Department of Information and Communication Technology</b>	
<b>Sem : 3</b>	<b>Name : VEDANT BHARAD</b>	
<b>Day : 35</b>	<b>Date : 21/11/2022</b>	<b>Enrollment No: 92100133023</b>

## CP Club 365Days Challenge

Date – 21/11/2022  
Programming language – c++


### Problem Statement

[https://practice.geeksforgeeks.org/problems/second-largest3735/1?utm\\_source=gfg&utm\\_medium=article&utm\\_campaign=bottom\\_sticky\\_on\\_article](https://practice.geeksforgeeks.org/problems/second-largest3735/1?utm_source=gfg&utm_medium=article&utm_campaign=bottom_sticky_on_article)

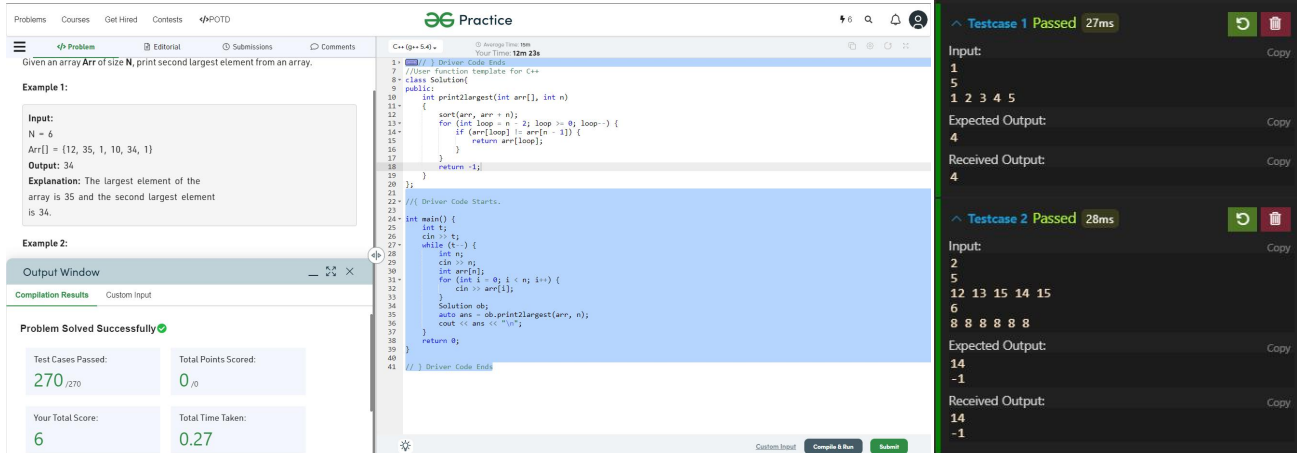
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## Your Code:

```
// 0x35Day of 0x365Days challenge
// VEDANT BHARAD
// 21-11-2022
//{ Driver Code Starts
#include <bits/stdc++.h>
using namespace std;
// } Driver Code Ends
//User function template for C++
class Solution{
public:
    int print2largest(int arr[], int n)
    {
        sort(arr, arr + n);
        for (int loop = n - 2; loop >= 0; loop--) {
            if (arr[loop] != arr[n - 1]) {
                return arr[loop];
            }
        }
        return -1;
    }
};
//{ Driver Code Starts.
int main() {
    int t;
    cin >> t;
    while (t--) {
        int n;
        cin >> n;
        int arr[n];
        for (int i = 0; i < n; i++) {
            cin >> arr[i];
        }
        Solution ob;
        auto ans = ob.print2largest(arr, n);
        cout << ans << "\n";
    }
    return 0;
}
// } Driver Code Ends
```

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## Output (Screen Shot):



The screenshot shows a C++ practice interface. On the left, the problem statement is: "Given an array Arr of size N, print second largest element from an array." Example 1: Input: N = 6, Arr[] = {12, 35, 1, 10, 34, 1}, Output: 34. Explanation: The largest element of the array is 35 and the second largest element is 34. Example 2: Input: N = 6, Arr[] = {12, 35, 1, 10, 34, 1}, Output: -1. Explanation: The largest element of the array is 35 and the second largest element is 34. On the right, the C++ code is shown, which sorts the array and returns the second largest element. The code is as follows:

```

1 // C++ program to find second largest element in an array
2 // User function template for C++
3 // class Solution
4 public:
5     int print2Largest(int arr[], int n)
6     {
7         sort(arr, arr + n);
8         for (int loop = n - 2; loop >= 0; loop--) {
9             if (arr[loop] != arr[loop - 1]) {
10                 return arr[loop];
11             }
12         }
13         return -1;
14     }
15 };
16 // Driver Code Starts
17 int main() {
18     int t;
19     cin >> t;
20     while (t--) {
21         int n;
22         cin >> n;
23         int arr[n];
24         for (int i = 0; i < n; i++) {
25             cin >> arr[i];
26         }
27         Solution obj;
28         auto ans = obj.print2Largest(arr, n);
29         cout << ans << "\n";
30     }
31     return 0;
32 }
33 // } Driver Code Ends

```

On the far right, the test cases are shown. Testcase 1 Passed (27ms): Input: 1 2 3 4 5, Expected Output: 4, Received Output: 4. Testcase 2 Passed (28ms): Input: 2 5 12 13 15 14 15 6 8 8 8 8 8, Expected Output: 14, Received Output: 14.

## Understanding about problem:

- In this task there will be int array and I need to return second largest number if there is no any second largest number then return -1.

**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