
 <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 : 65</b>	<b>Date : 21/12/2022</b>	<b>Enrollment No: 92100133023</b>

## CP Club 365Days Challenge

Programming language – C++

### Problem Statement


[https://practice.geeksforgeeks.org/problems/missing-number-in-array1416/1?page=1&curated\[\]=1&sortBy=submissions](https://practice.geeksforgeeks.org/problems/missing-number-in-array1416/1?page=1&curated[]=1&sortBy=submissions)

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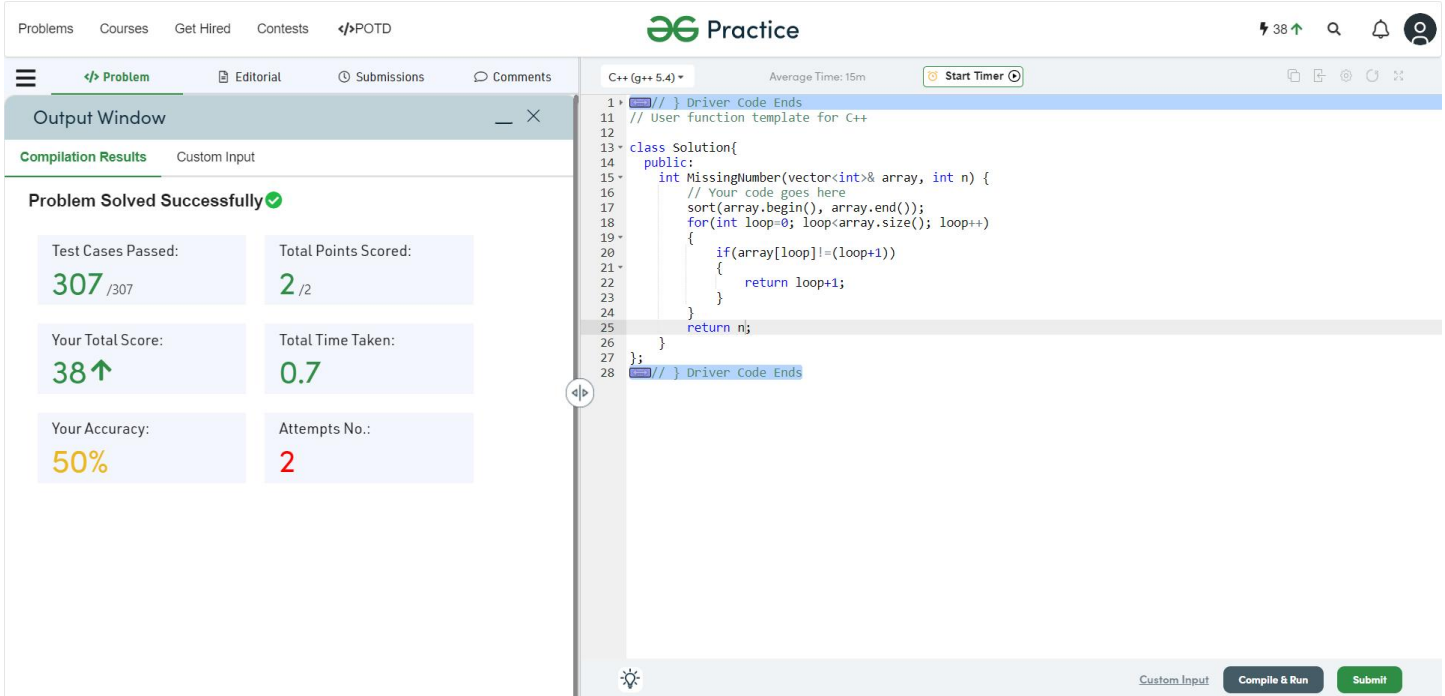
## Your Code:

```
// 0x65Day of 0x365Days challenge
// VEDANT BHARAD
// 21-12-2022
//{ Driver Code Starts
// Initial template for C++

#include <bits/stdc++.h>
using namespace std;
// } Driver Code Ends
// User function template for C++
class Solution{
public:
    int MissingNumber(vector<int>& array, int n) {
        // Your code goes here
        sort(array.begin(), array.end());
        for(int loop=0; loop<array.size(); loop++)
        {
            if(array[loop]!=(loop+1))
            {
                return loop+1;
            }
        }
        return n;
    }
};
//{ Driver Code Starts.
int main() {
    int t;
    cin >> t;
    while (t--) {
        int n;
        cin >> n;
        vector<int> array(n - 1);
        for (int i = 0; i < n - 1; ++i) cin >> array[i];
        Solution obj;
        cout << obj.MissingNumber(array, n) << "\n";
    }
    return 0;
}
// } Driver Code Ends
```

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## Output (Screen Shot):



The screenshot shows a web-based programming practice interface. On the left, the 'Output Window' displays 'Problem Solved Successfully' with a green checkmark. It lists performance metrics: Test Cases Passed: 307 / 307, Total Points Scored: 2 / 2, Your Total Score: 38 (with an upward arrow), Total Time Taken: 0.7, Your Accuracy: 50%, and Attempts No.: 2. The main area shows a C++ code editor with a solution for finding a missing number in an array. The code uses sorting and a loop to find the missing element. The interface includes a top navigation bar with 'Problems', 'Courses', 'Get Hired', 'Contests', and 'POTD'. The bottom right has buttons for 'Custom Input', 'Compile & Run', and 'Submit'.

## Understanding about problem:

In this task I need to return a number which is missing element of the array, array will contains number from 1 to N, N is length of array.

**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