 <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 : 56</b>	<b>Date : 12/12/2022</b>	<b>Enrollment No: 92100133023</b>


## CP Club 365Days Challenge

Date – 12/12/2022

Programming language – C++


### Problem Statement

[https://practice.geeksforgeeks.org/problems/balanced-array07200720/1?page=2&difficulty\[\]=1&category\[\]=Arrays&sortBy=submissions](https://practice.geeksforgeeks.org/problems/balanced-array07200720/1?page=2&difficulty[]=1&category[]=Arrays&sortBy=submissions)

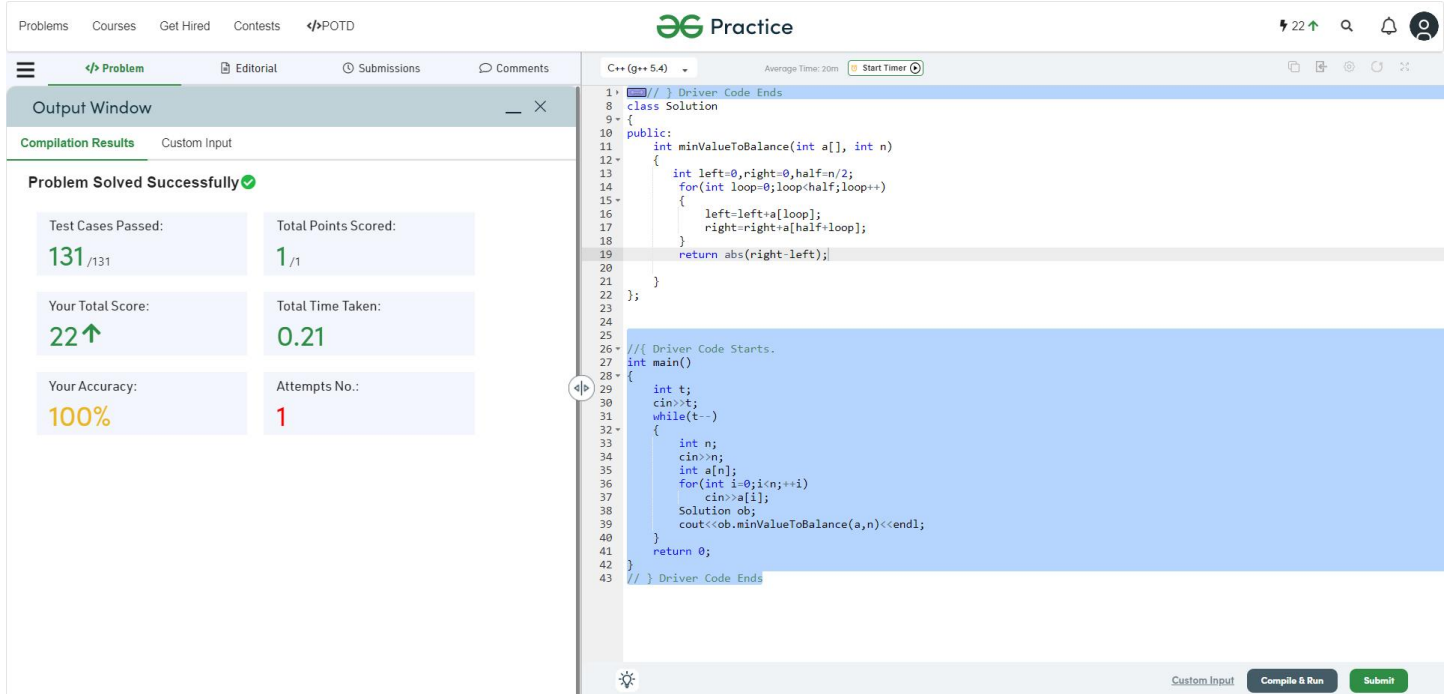
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<b>Sem : 3</b>	<b>Name : VEDANT BHARAD</b>	
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## Your Code:

```
// 0x56Day of 0x365Days challenge
// VEDANT BHARAD
// 12-12-2022
//{ Driver Code Starts
#include <bits/stdc++.h>
#include<stdio.h>
#include<math.h>
using namespace std;
// } Driver Code Ends
class Solution
{
public:
    int minValueToBalance(int a[], int n)
    {
        int left=0,right=0,half=n/2;
        for(int loop=0;loop<half;loop++)
        {
            left=left+a[loop];
            right=right+a[half+loop];
        }
        return abs(right-left);
    }
};
//{ Driver Code Starts.
int main()
{
    int t;
    cin>>t;
    while(t-->0)
    {
        int n;
        cin>>n;
        int a[n];
        for(int i=0;i<n;++i)
            cin>>a[i];
        Solution ob;
        cout<<ob.minValueToBalance(a,n)<<endl;
    }
    return 0;
}
// } Driver Code Ends
```

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## Output (Screen Shot):



The screenshot displays a C++ practice interface. On the left, the 'Output Window' shows 'Problem Solved Successfully' with the following statistics:

- Test Cases Passed: 131 / 131
- Total Points Scored: 1 / 1
- Your Total Score: 22 ↑
- Total Time Taken: 0.21
- Your Accuracy: 100%
- Attempts No.: 1

The main editor shows the following C++ code:

```

1 // } Driver Code Ends
2 class Solution
3 {
4 public:
5     int minValueToBalance(int a[], int n)
6     {
7         int left=0,right=0,half=n/2;
8         for(int loop=0;loop<half;loop++)
9         {
10             left=left+a[loop];
11             right=right+a[half+loop];
12         }
13         return abs(right-left);
14     }
15 };
16
17 // } Driver Code Starts
18 int main()
19 {
20     int t;
21     cin>>t;
22     while(t-->0)
23     {
24         int n;
25         cin>>n;
26         int a[n];
27         for(int i=0;i<n;i++)
28             cin>>a[i];
29         Solution ob;
30         cout<<ob.minValueToBalance(a,n)<<endl;
31     }
32     return 0;
33 }
34 // } Driver Code Ends
  
```

## Understanding about problem:

- In this task I need to balanced the given array from half and for that find minimum value that can be added to an element so that array become balanced.

**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