Experiment - 1

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Branch: BE-CSE **Section/Group: 607-B**
Semester: 5 **Date of Performance:22-08-2022**
Subject Name: Competitive Coding **Subject Code:20CSP-314**

1.1 Aim: Given an array, A of N integers, print a's elements in reverse order as a single line of space separated numbers.

1.2 Input :

No of element = 5;

arr[5] = {4,3,7,6,2}

1.3 Output :

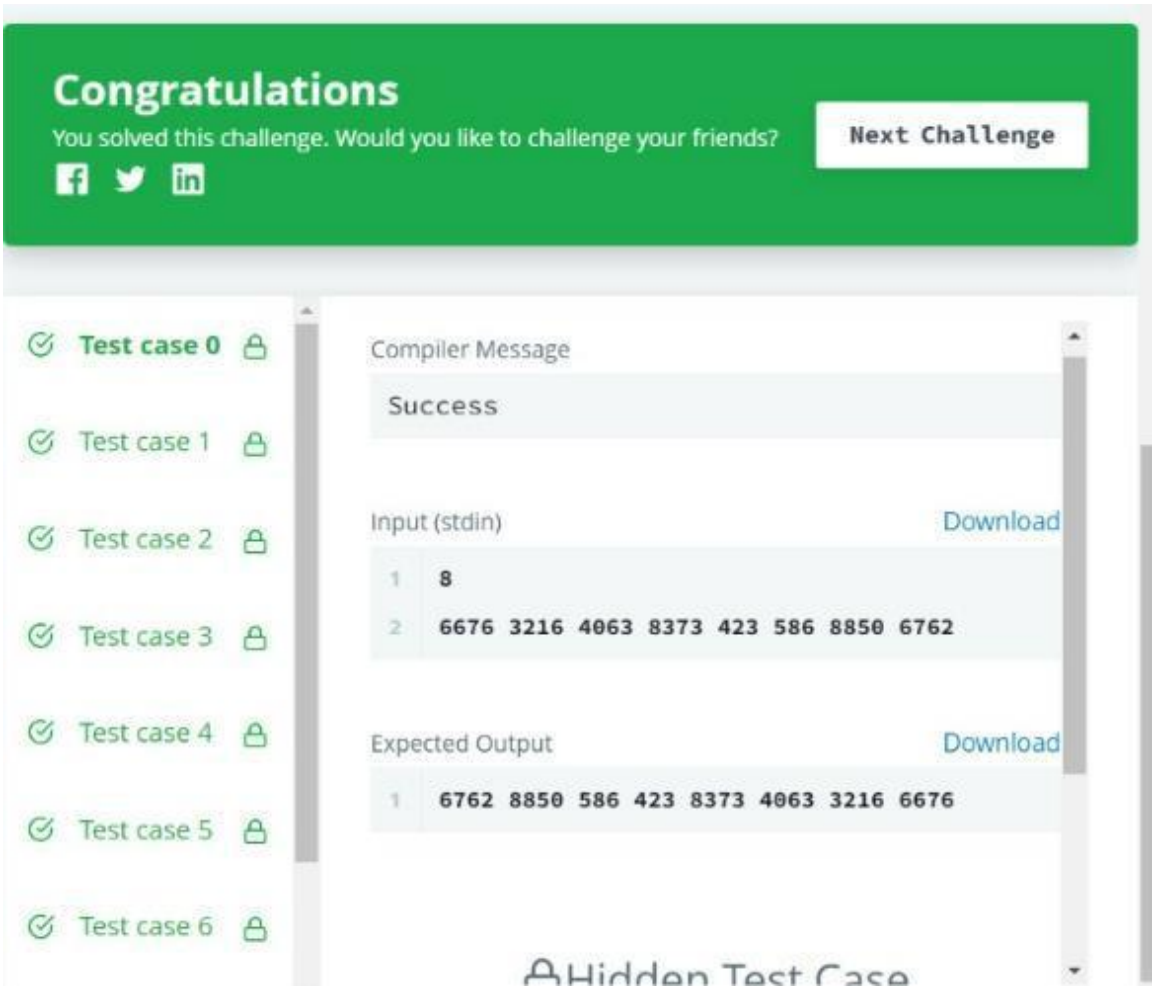
Result = 2,6,7,3,4

1.4 Code :

```
#include<bits/stdc++.h>

using namespace std;

 int main(){

    int n;

    cin>>n;
    int arr[n];

    for(int i=0;i<n;i++){
```

```
    cin>>arr[i];
  }
  for(int i=n-1;i>=0;i--){
     cout<<arr[i]<<" ";
  }
}
```

1.5 Result/Output:



2.1 Aim:

Given a square matrix, calculate the absolute difference between the sums of its diagonals.

Description :

Complete the diagnolDifference function in the editor below.

Diagonal Difference takes the following parameter:

- ***int arr[n][m]*: an array of integers**

2.2 Input :

3
1124
4 5 6
10 8 -12

2.3 Output :

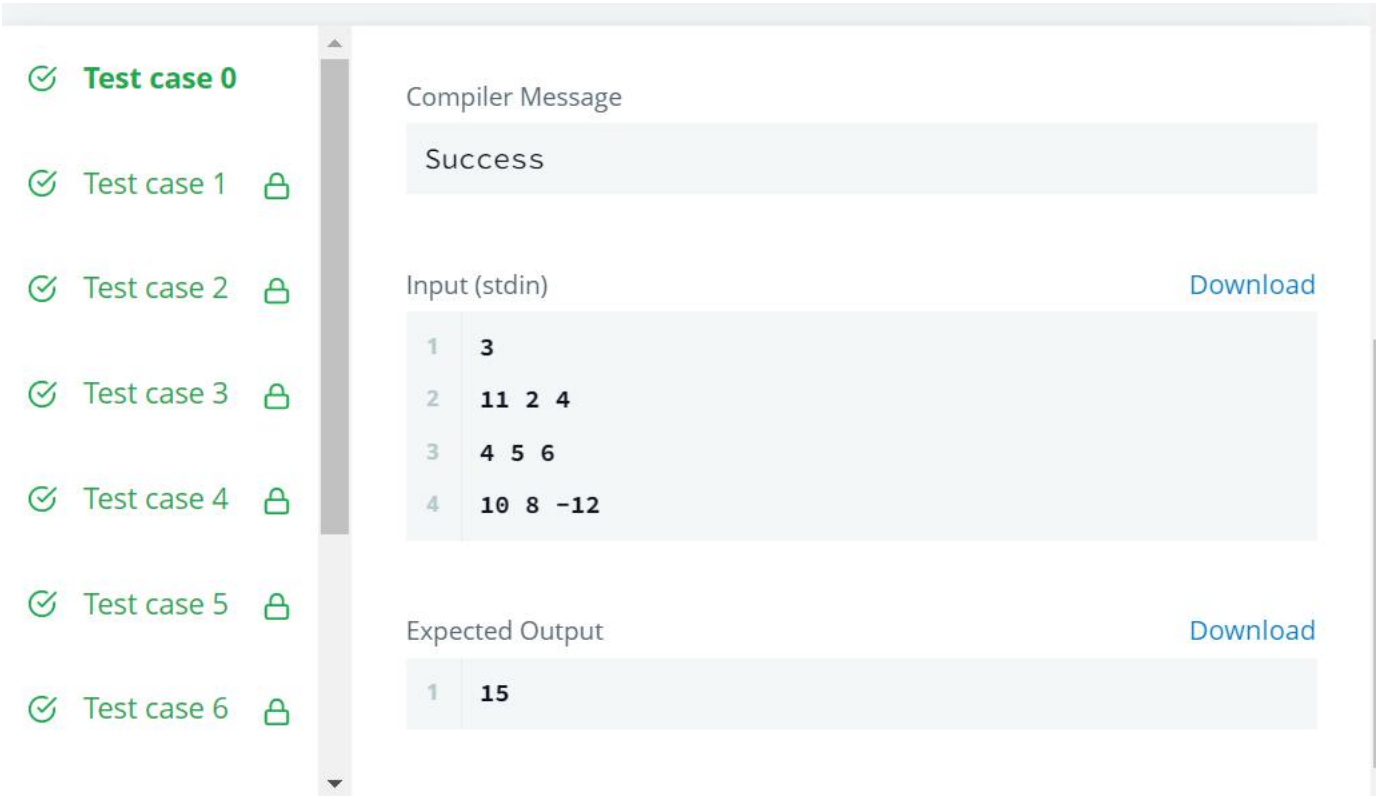
Result = 15

2.4 Code :

```
#include <iostream>

#define SIZE 5
using namespace std;

int main()
{
      int size;
        cin>>size;
   int matrix[size][size];
   int sum_left =0, sum_right = 0;
```

```
    //Taking input into the Matrix and
    //Adding if they are diagonal elements
    for(int i=0; i<size ; i++){
      for(int j=0; j<size; j++){
        cin >> matrix[i][j];
        if(i==j)
          sum_left += matrix[i][j];
        if((i+j) == size-1)
          sum_right += matrix[i][j];
      }
    }

    int res=sum_right-sum_left;
    cout<<abs(res);

    return 0;

}
```

2.5 Result/Output:



Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			