

## Answer to Question #52411 - Programming, C++

### Question

Write a C++ program that takes a NxN 2-dimensional square array of integers. If the summation of all array elements is odd, the function returns the summation of the elements in the 2 diagonals of the array, otherwise it returns -1.

### Answer

```
#include <iostream>
using namespace std;

int main()
{
    int n,a[n][n],sum=0,sum_d=0;
    cout<<"n = ";
    cin>>n;
    cout<<endl;
    for (int i=0;i<n;i++)
        for (int j=0; j<n; j++)
            {
                cout<<"a["<<i<<"]["<<j<<"]=";
                cin>>a[i][j];
            }

    for (int i=0; i<n; i++)
    {
        for (int j=0; j<n; j++)
        {
            sum=sum+a[i][j];
            if (i==j || j==n-i-1)
                sum_d=sum_d+a[i][j];
        }
    }

    if (sum%2==0)
        cout<<-1;
    else cout<<sum_d;

}
```