

```

#include <iostream>

using namespace std;

int main()
{
    int n; int sum = 0;

    do
    {

        system("cls");
        cout<<"Input n (n must be greater than 0 and less than 65535)"<<endl;
        cin>>n;
    } while(n <1 || n > 65535);

    system("cls");
    cout<<"SUM("&<<n<<") = ";

    for (int i = 1; i < n;i++)
    {
        cout<<i<<" + ";
        sum += i;
    }

    cout<<n<<". "<<endl<<endl;

    sum += n;
    cout<<"SUM("&<<n<<") = "<<sum<<endl;
    cout<<endl;
    system("pause");
    return 0;
}

```