https://course.acciojob.com/idle?question=e61a44c0-8e14-4d75-9250-efcb03e6acf1

- EASY
- Max Score: 30 Points

Sigma of Equation

Given a number N, find the value of the below equation for the given number.

Equation

```
N
∑  {(X + 1)^2 - (3X + 1) + X}
X = 1
```

Input Format

First line contains an integer n

Output Format

Single line output representing the value.

Example 1

Input

```
1
```

Output

```
1
```

Example 2

Input

```
2
```

Output

```
5
```

Explanation

{(1+1)² - (3x1+1) + (1)} + {(2+1)² - (3x2+1) +2} = 4 - 4 +1 + 9 -7 +2 = 5

Constraints

1 <= n <= 10^5

Topic Tags

- **Loops**

My code

```
// n java
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
	public static void main (String[] args) throws
java.lang.Exception
	{
		//System.out.println("Hello World");
```

```
        Scanner s=new Scanner(System.in);
      long sum=0;
      long n=s.nextInt();
      for(long i=1;i<=n;i++){
      long a=(i+1)*(i+1);
      long b=(3*i)+1 ;
      long c=(a+i)-b;
        sum+=c;}
      System.out.print(sum);
        }
}
```