



STUDENT REPORT

DETAILS

Name

Prasad Diptanshu

Roll Number

3BR23ME015

EXPERIMENT

Title

PYRAMID SUM

Description

Adam has a pyramid of numbers. The pyramid structure is formed by arranging the numbers in the following pattern

1

212

32123

4321234

543212345

N__212__N

The first row contains the number 1. The second row contains the numbers 2, 1, and 2. The third row contains the numbers 3, 2, 1, 2, and 3. This pattern continues for subsequent rows, until it reaches N, which represents the height of the pyramid.

Given height of pyramid N find the sum of the numbers in the pyramid and return the sum as the output.

Sample Input:

3

Sample Output:

17

Explanation:

1

212

32123

sum=1+2+1+2+3+2+1+2+3=17

Source Code:

```
n=int(input())

res=0

for i in range(1,n+1):
    temp=(i*(i+1))-1
    res+=temp
print(res)
```

RESULT

5 / 5 Test Cases Passed | 100 %