

# Iterated sums

Please compute the sum of squares for the given numbers:  $a, a+1, \dots, b-1, b$ .

## Input

Two numbers:  $a$  and  $b$  separated by space, where  $1 \leq a \leq b \leq 100$ .

## Output

Computed sum:  $a^2 + (a+1)^2 + \dots + (b-1)^2 + b^2$

## Example

**Input:**

1 4

**Output:**

30

## Example 2

**Input:**

5 6

**Output:**

61