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**Sum of squares****P36668\_en**

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Write a program that reads a natural number  $n$ , and prints the result of the following sum:

$$1^2 + 2^2 + \dots + (n-1)^2 + n^2.$$

**Input**

Input consists of a natural number  $n$ .

**Output**

Print the sum of the first  $n$  squares:  $\sum_{i=1}^n i^2$ .

**Observation**

The summation has a closed formula, so a loop would not be necessary to solve this exercise.

**Sample input 1**

3

**Sample output 1**

14

**Sample input 2**

4

**Sample output 2**

30

**Problem information**

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