# Jutge.org

The Virtual Learning Environment for Computer Programming

# Sum of squares

P36668\_en

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

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

#### 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	Sample output 1
3	14
Sample input 2	Sample output 2

# Sample input 2

30

**Problem information** 

Author: Salvador Roura Translator: Carlos Molina Generation: 2018-02-01 18:54:32

© Jutge.org, 2006–2018. https://jutge.org