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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.

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Sample input 1	Sample output 1
3	14

Sample input 2

Sample output 2

Problem information

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