Problem A. Calc

Time limit 2000 ms
Mem limit   1048576 kB

Problem Statement

Given an integer a as input, print the value $a + a^2 + a^3$.

Constraints

- $1 \leq a \leq 10$
- a is an integer.

Input

Input is given from Standard Input in the following format:

a

Output

Print the value $a + a^2 + a^3$ as an integer.

Sample 1

Input	Output
2	14

When $a = 2$, we have $a + a^2 + a^3 = 2 + 2^2 + 2^3 = 2 + 4 + 8 = 14$.

Print the answer as an input. Outputs such as `14.0` will be judged as incorrect.

Sample 2

Input	Output
10	1110