

A. Hexagonal Numbers

time limit per test: 2 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

Hexagonal numbers are figurate numbers which can be calculated using the formula $h_n = 2n^2 - n$. You are given n ; calculate n -th hexagonal number.

Input

The only line of input contains an integer n ($1 \leq n \leq 100$).

Output

Output the n -th hexagonal number.

Examples

input
3
output
15

input
6
output
66