A. Hexagonal Numbers

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