## A. Hexagonal numbers

time limit per test: 2 seconds memory limit per test: 64 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 ( $1 \le n \le 100$ ).

## **Output**

Output the n-th hexagonal number.

## **Examples**

input	
2	
output	
6	

input		
5		
output		
45		