

Simple Pattern

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

points: 100 · problem code: simplepattern · author: Parsa

Input

A single positive integer n is given in the only line of input.

Output

Output a non-negative integer representing the answer.

Constraints

$1 \leq n \leq 1000$

Example 1

Input

1

1

Example 2

Input

10

1

Example 3

Input

100

5

Example 4

Input

1000

3