

Odd Language

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

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

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Input

The input is an integer n .

Output

Output a non-negative integer representing the answer.

Constraints

$$1 \leq n \leq 100$$

Example 1

Input

1

1

Example 2

Input

10

1