

A. Quirky Quantifiers

time limit per test: 2 seconds
memory limit per test: 64 megabytes
input: standard input
output: standard output

Input

The input contains a single integer a ($10 \leq a \leq 999$).

Output

Output 0 or 1.

Examples

input
13
output
1

input
927
output
1

input
48
output
0