

CROSSES AND CROSSES

The game of *Crosses and Crosses* is played on the field of $1 \times n$ cells. Two players make moves in turn. Each move the player selects any free cell on the field and puts a cross 'x' to it. If after the player's move there are three crosses in a row, he wins.

You are given n . Find out who wins if both players play optimally.

Input

Input file contains one integer number n ($3 \leq n \leq 2000$).

Output

Output '1' if the first player wins, or '2' if the second player does.

Examples

Nº	stdin	stdout
1	3	1
2	6	2