R. Game

time limit per test: 0.5 seconds
memory limit per test: 64 megabytes
input: standard input
output: standard output

There is a legend in the IT City college. A student that failed to answer all questions on the game theory exam is given one more chance by his professor. The student has to play a game with the professor.

The game is played on a square field consisting of $n \times n$ cells. Initially all cells are empty. On each turn a player chooses and paint an empty cell that has no common sides with previously painted cells. Adjacent corner of painted cells is allowed. On the next turn another player does the same, then the first one and so on. The player with no cells to paint on his turn loses.

The professor have chosen the field size n and allowed the student to choose to be the first or the second player in the game. What should the student choose to win the game? Both players play optimally.

Input

The only line of the input contains one integer n ($1 \le n \le 10^{18}$) — the size of the field.

Output

Output number 1, if the player making the first turn wins when both players play optimally, otherwise print number 2.

Examples

input
1
output
1

input
2
output
2

Experimental Educational Round: VolBIT Formulas Blitz

Finished

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Problem tags

games

No tag edit access

→ Contest materials

- Announcement
- Tutorial