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The Virtual Learning Environment for Computer Programming

The burger's game

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(The original statement in Catalan has some private jokes. This English version goes straight to the point of the problem.)

Consider the following two-player game. There is a plate with *n* burgers. By turns, each player eats a number of Fibonacci of burgers (at least one). The first player that cannot eat, loses. Please write a program to tell who wins, assuming perfect play.

Input

Input consists of several cases, each with a natural number between 0 and 10^5 .

Output

For every case, print the number of the winning player (1 or 2), assuming perfect play by both players.

Sample input

0	2
1	1
2	1
3	1
4	2
20	2
99999	1
100000	2

Problem information

Author : Alex Alvarez Generation : 2024-04-30 18:30:59

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Sample output