

Fibonacci 1

In the Fibonacci integer sequence, $F_0 = 0$, $F_1 = 1$, and $F_n = F_{n-1} + F_{n-2}$ for $n \geq 2$. For example, the first ten terms of the Fibonacci sequence are:

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, ...

Given an integer n , your goal is to compute the last $F_n \bmod (10^9 + 7)$.

Input

The input test file will contain a single line containing n ($n \leq 100$).

There are multiple test cases!

Output

For each test case, print the $F_n \bmod (10^9 + 7)$.

Sample Input

9

Sample Output

34