# Problem 1: Fibonacci

Time limit : 1s
Memory limit: 256MB

The Fibonacci sequence is defined as:

$$F_0 = 0$$
$$F_1 = 1$$
$$F_n = F_{n-1} + F_{n-2}, \quad \forall n > 1$$

Given a positive integer $n$, calculate $F_n \mod (10^9 + 7)$.

## Input

- A single positive integer $n$.

## Output

- A single integer, the value of $F_n \mod (10^9 + 7)$

| Sample Input | Sample Output |
|---|---|
| 3 | 2 |

**Scoring:**

- $30\%$ of score has $n \leq 20$
- $40\%$ of score has $n \leq 10^6$
- $30\%$ of score has $n \leq 10^{18}$