15:14 21/12/24 CSES - Bit Strings





### **CSES Problem Set**

# **Bit Strings**

TASK | STATISTICS

**Time limit:** 1.00 s **Memory limit:** 512 MB

Your task is to calculate the number of bit strings of length n.

For example, if n=3, the correct answer is 8, because the possible bit strings are 000, 001, 010, 011, 100, 101, 110, and 111.

## **Input**

The only input line has an integer n.

## **Output**

Print the result modulo  $10^9+7$ .

#### **Constraints**

•  $1 \le n \le 10^6$ 

# **Example**

Input:

3

Output:

Number Spiral

Two Knights

Two Sets

Bit Strings

Trailing Zeros

Coin Piles

Palindrome Reorder

Gray Code

...

**Introductory Problems**