

## Problem A. Dice Combinations

**Time limit** 1000 ms

**Mem limit** 524288 kB

Your task is to count the number of ways to construct sum  $n$  by throwing a dice one or more times. Each throw produces an outcome between 1 and 6.

For example, if  $n = 3$ , there are 4 ways:

- $1 + 1 + 1$
- $1 + 2$
- $2 + 1$
- $3$

### Input

The only input line has an integer  $n$ .

### Output

Print the number of ways modulo  $10^9 + 7$ .

### Constraints

- $1 \leq n \leq 10^6$

### Sample

Input	Output
3	4