



CSES Problem Set

Dice Combinations

TASK | [STATISTICS](#)

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

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

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

Example

Input:
3

Output:
4

Dynamic Programming

Dice Combinations	<input type="checkbox"/>
Minimizing Coins	<input type="checkbox"/>
Coin Combinations I	<input type="checkbox"/>
Coin Combinations II	<input type="checkbox"/>
Removing Digits	<input type="checkbox"/>
Grid Paths	<input type="checkbox"/>
Book Shop	<input type="checkbox"/>
Array Description	<input type="checkbox"/>
...	