

## E. Tribonacci numbers

time limit per test: 2 seconds  
memory limit per test: 64 megabytes  
input: standard input  
output: standard output

Tribonacci numbers are a sequence of numbers, defined as follows:

- $t_0 = t_1 = 0$ ,
- $t_2 = 1$ ,
- $t_i = t_{i-1} + t_{i-2} + t_{i-3}$ .

You are given  $n$ ; calculate  $n$ -th tribonacci number modulo 26.

### Input

The only line of input contains an integer  $n$  ( $1 \leq n \leq 1000$ ).

### Output

Output  $n$ -th tribonacci number modulo 26.

### Examples

input
4
output
2

  

input
9
output
18