2768 - Very Simple Task

Description

Given an integer you must calculate the sum of powers of two (T). For example for n = 3, $2^0 + 2^1 + 2^2 + 2^3 = 15$, T = 15.

Input specification

The input is a file such that each line contains a positive number $1 \le n \le 1000000$. A line containing the number 0 is the end of the input.

Output specification

For each case you must print an integer in a single line representing the solution T. As those numbers can be very big, print the results mod 1000000007.

Sample input

1

2

3

Sample output

3

7

15

Hint(s)

Source	XII Copa Pascal de Programación
Added by	ymondelo20
Addition date	2014-03-25
Time limit (ms)	2000
Test limit (ms)	1000
Memory limit (kb)	256000

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Output limit (mb) 64

Size limit (bytes) 15000

Bash C C# C++ Java Pascal Perl PHP Enabled languages

Python Ruby Text