

2767 - Other Game

Description

Jimmy has found a new game that is played by level and to the next level you have to pay to apples. The good observer as it has realized that the N level costs $N \times N$ apples. Interested in advance levels and as you have to collect the apples you want to know how many apples you need to get to level N . Its task is to help you find the number of apples you need.

Input specification

The input file consists of several lines. The line number i contains a single number N [$1 \leq N \leq 1000000$] representing the end level.

Output specification

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

Sample input

```
1
2
3
```

Sample output

```
1
5
14
```

Hint(s)

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

Caribbean Online Judge

Memory limit (kb)	256000
Output limit (mb)	64
Size limit (bytes)	15000
Enabled languages	Bash C C# C++ Java Pascal Perl PHP Python Ruby Text