2661 - Finding Rest

Description

Given a natural number N (0 \leq 2^100007), could you tell the value R of the remainder of the euclidean division of 7^N by 9.

Input specification

The entry consists of an unknown number of lines with a number N in each of them.

Output specification

For each number on the input, you should print only an integer R per line.

Sample input

3

Sample output

1

4

Hint(s)

| Source | Yaniel Alfredo Velázquez Bruceta |
|--------------------|----------------------------------|
| Added by | Slash |
| Addition date | 2013-12-07 |
| Time limit (ms) | 3000 |
| Test limit (ms) | 1000 |
| Memory limit (kb) | 256000 |
| Output limit (mb) | 64 |
| Size limit (bytes) | 15000 |

Caribbean Online Judge

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