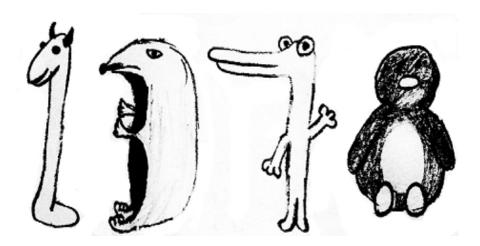
# Problem A. Arpa's hard exam and Mehrdad's naive cheat

**Time limit** 1000 ms **Mem limit** 262144 kB

There exists an island called Arpa's land, some beautiful girls live there, as ugly ones do.

Mehrdad wants to become minister of Arpa's land. Arpa has prepared an exam. Exam has only one question, given n, print the last digit of  $1378^n$ .



Mehrdad has become quite confused and wants you to help him. Please help, although it's a naive cheat.

## Input

The single line of input contains one integer n ( $0 \le n \le 10^9$ ).

## Output

Print single integer — the last digit of  $1378^n$ .

#### Sample 1

Input	Output
1	8

### Sample 2

Input	Output
2	4

#### Note

In the first example, last digit of  $1378^1 = 1378$  is 8.

In the second example, last digit of  $1378^2 = 1378 \cdot 1378 = 1898884$  is 4.