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The Virtual Learning Environment for Computer Programming

# Fibonacci numbers (2)

P74219\_en

For every given pair of natural numbers n and m, compute  $F_n$  mod m, where  $F_n$  is the n-th Fibonacci number (starting at 0).

### Input

The input consists of several pairs of *n* and *m*. Assume  $0 \le n \le 10^9$  and  $2 \le m \le 10^3$ .

### Output

For every given pair, print  $F_n \mod m$ .

#### Hint

Consider the problem.

## Sample input

0	1	0 0	)	
10	)	10	0 (	
10	)	9		
10	0 (	0	8	76

# Sample output

#### **Problem information**

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