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### Description

Given an integer n, print the value of  $n \mod 3$  as an integer between 0 and 2.

### Input

The input consists of a single line containing a single integer n that lies between  $-10^9$  and  $10^9$ .

# Output

A single line (ending with a newline) containing the value of  $n \mod 3$ , lying between 0 and 2.

# Sample Input 1

17

#### Sample Output 1

2

### Sample Input 2

-5

#### Sample Output 2

1

# Sample Input 3

-9

# Sample Output 3

0