



HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING API HELP LYFT MAILRU CUP CALENDAR

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

## A. Round House

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

Vasya lives in a round building, whose entrances are numbered sequentially by integers from 1 to n. Entrance n and entrance 1 are adjacent.

Today Vasya got bored and decided to take a walk in the yard. Vasya lives in entrance a and he decided that during his walk he will move around the house b entrances in the direction of increasing numbers (in this order entrance n should be followed by entrance 1). The negative value of b corresponds to moving |b| entrances in the order of decreasing numbers (in this order entrance 1 is followed by entrance n). If b=0, then Vasya prefers to walk beside his entrance.

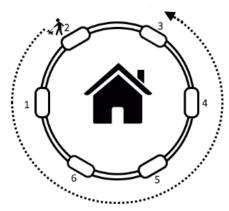


Illustration for n = 6, a = 2, b = -5.

Help Vasya to determine the number of the entrance, near which he will be at the end of his walk.

#### Input

The single line of the input contains three space-separated integers n, a and b ( $1 \le n \le 100$ ,  $1 \le a \le n$ ,  $-100 \le b \le 100$ ) — the number of entrances at Vasya's place, the number of his entrance and the length of his walk, respectively.

#### Output

Print a single integer k ( $1 \le k \le n$ ) — the number of the entrance where Vasya will be at the end of his walk.

### **Examples**

input	Сору
6 2 -5	
output	Сору
3	
input	Сору

# Codeforces Round #346 (Div. 2)

**Finished** 

### → Virtual participation

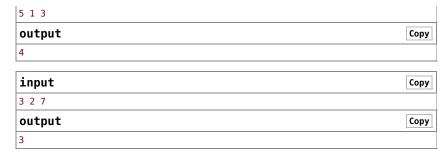
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Start virtual contest

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implementation	math		
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### Note

The first example is illustrated by the picture in the statements.

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