

## Problem P. Round House

**Time limit** 1000 ms

**Mem limit** 262144 kB

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.

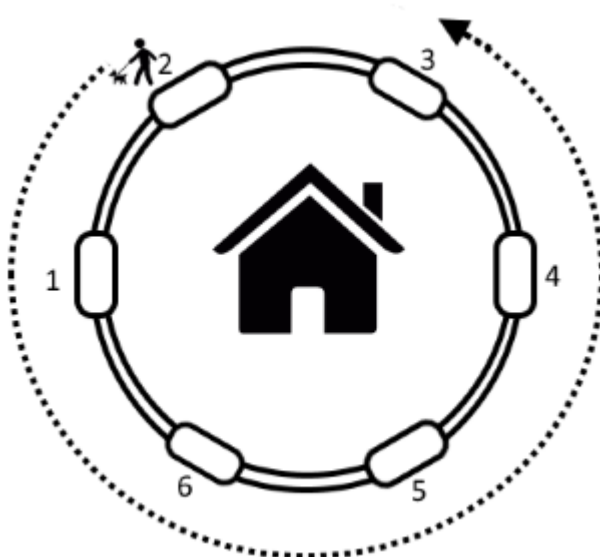


Illustration for  $n = 6, a = 2, b = -5$ .

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  $b$  ( $1 \leq n \leq 100, 1 \leq a \leq n, -100 \leq b \leq 100$ ) — 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  $k$  ( $1 \leq k \leq n$ ) — the number of the entrance where Vasya will be at the end of his walk.

### Sample 1

Input	Output
6 2 -5	3

### Sample 2

Input	Output
5 1 3	4

### Sample 3

Input	Output
3 2 7	3

### Note

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