

## 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  $b$  ( $1 \leq n \leq 100, 1 \leq a \leq n, -100 \leq b \leq 100$ ) — 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.

### Examples

<b>input</b>
6 2 -5
<b>output</b>
3
<b>input</b>
5 1 3
<b>output</b>
4
<b>input</b>
3 2 7
<b>output</b>
3

### Note

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

### Codeforces Round #346 (Div. 2)

Finished

### → Virtual participation

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Start virtual contest

### → Problem tags

implementation math

No tag edit access

### → Contest materials

- Announcement 
- Tutorial 