# 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	
6 2 -5	
output	
3	

input		
5 1 3		
output		
4		

```
input
3 2 7
output
3
```

## Note

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