**G - Round House**

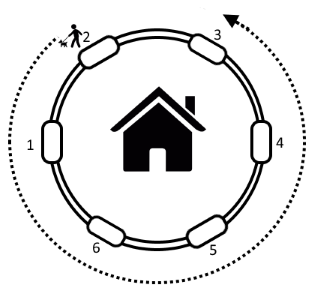
**Time Limit:**1000MS     **Memory Limit:**262144KB     **64bit IO Format:**%I64d & %I64u

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**Description**

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 ≤ *n* ≤ 100, 1 ≤ *a* ≤ *n*,  - 100 ≤ *b* ≤ 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 ≤ *k* ≤ *n*) — the number of the entrance where Vasya will be at the end of his walk.

**Sample Input**

**Input**

6 2 -5

**Output**

3

**Input**

5 1 3

**Output**

4

**Input**

3 2 7

**Output**

3

**Hint**

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

**G圆形的房子**

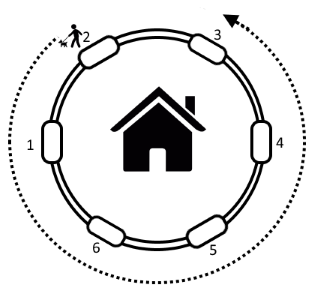
**时间限制：**一千MS     **内存限制：**二十六万二千一百四十四KB     **64bit IO格式：**%I64d &%I64u

[提交](http://vjudge.net/contest/123831" \l "problem/javascript:void(0)) [地位](http://vjudge.net/contest/123831" \l "status//G/0) [实践](http://vjudge.net/problem/CodeForces-659A" \t "http://vjudge.net/contest/123831" \l "problem/_blank) [codeforces 659a](http://vjudge.net/problem/230706/origin" \t "http://vjudge.net/contest/123831" \l "problem/_blank)

**描述**

Vasya住在一个圆形建筑，其入口按顺序编号的整数从一到*N*。入口*N*入口一相邻。

今天Vasya感到厌倦，决定在院子里散步。Vasya住在入口*一*他决定，他走他会移动的房子中*B*在越来越多的方向的入口（这个顺序的入口*N*应遵循的入口一）。负价值*B*对应的移动|*B*|在减少数的顺序依次入口（入口一其次是入口*N*）。if*B* = 0，然后Vasya宁愿步行在他的门口。

 说明*N* = 6，*一* = 2，*B* =  - 5。

帮助Vasya确定入学人数，在他将在他的散步结束。

**输入**

单一的输入包含三个用空格隔开的整数*N*，*一*和*B*（1 ≤ *N* ≤ 100， 1 ≤ *一* ≤ *N*100、  -  ≤ *B* ≤ 100) — the number of entrances at Vasya's place, the number of his entrance and the length of his walk, respectively.

**输出**

打印一个整数*K*（1 ≤ *K* ≤ *N*) — the number of the entrance where Vasya will be at the end of his walk.

**样本输入**

输入

6 2 5

输出

三

输入

5 1 3

输出

四

输入

3 2 7

输出

三

**提示**

第一个例子是通过在报表图。