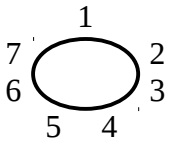
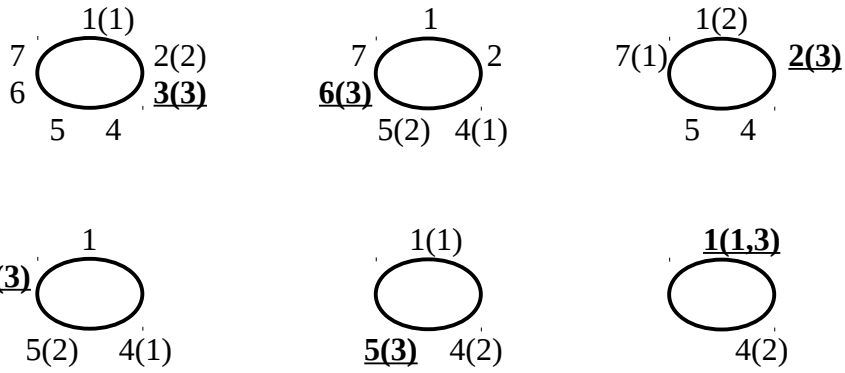
Last one
1 second, 32MB

In a meeting, there are *N* people standing in a circle (1 <= *N* <= 150). Each person is assigned a number, ranging from 1 to *N* in a clockwise order, as shown in an example below (where N = 7).



They want to introduce themselves to the group, but they do not want to do that in a typical order. They pick a number K (1<=K<=200) and start counting 1 from the first person up to K, then the K-th person has to introduce herself or himself. That person then leaves the circle. Also, because they stand on a circle, the counting wraps around. The counting and the introduction proceed until everyone has introduced herself or himself.

As an example, consider the case when *N* = 7 and *K* = 3. The sequence of people to introduce herself or himself is: 3, 6, 2, 7, 5, 1, and 4. See illustration below, where the counting is shown in parentheses and the K-th person in each round is shown as a bold underlined number. The last person to do the introduction is person 4.



Given *N* and *K*, your task is to find out who would be the last one to introduce herself or himself.

Input
The input has one line that contains two integers *N* and *K*. (1<=*N*<=150; 1<=*K*<=200)

Output
Your program should output a single integer, the number of the last person to do the introduction.

Example 1

Input	Output
7 3	4

Example 2

Input	Output
9 2	3