

In many cases we need to draw lots for determination. One simple way is to select a single number  $n$  and a starting person  $p$  so that the next  $n^{\text{th}}$  person after the starting person  $p$  will be selected. As the number would be larger than the total number of persons, the counting process is done circularly. Write a program to help the calculation.

**Input**

The input contains several cases which is indicated by the first input. Each case contains three integers, which in turn denote and the number  $n$ , the starting person  $p$ , and the number of persons  $P$ .

**Output**

For each case, output the case number and the number of the selected person. Each output should be in separate line.

**Sample Input**

3  
2 4 6  
5 1 9  
3 7 8

**Sample Output**

Case 1: 6  
Case 2: 6  
Case 3: 2