



STUDENT REPORT

DETAILS

Name

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Roll Number

TEMPBTech-ECE005

EXPERIMENT

Title

CANDIES

Description

Let's consider a scenario where there are K candies to be distributed among N children, each uniquely numbered from 1 to N. The distribution commences with Child A, followed by a sequential allocation to the subsequent children in the order: A, A+1, A+2,..., N. The query at hand is to identify which child will be the last recipient of a candy.

In more explicit terms, after Child x (where $1 \leq x < N$) receives a candy, the subsequent candy is granted to Child x+1. Upon Child N receiving a candy, the distribution cycle restarts, and Child 1 becomes the next recipient.

The primary objective is to ascertain the identity of the child who will receive the last candy in this cyclic distribution.

Note: Each child receives only 1 candy.

Input Format:

The first line of input contains 3 space separated integers N, K and A.

Output Format:

Print the friend who will be the final recipient of the candy.

Constraints:

$1 \leq N \leq K \leq 10^8$

Sample Input:

5 2 1

Sample Output:

2

Source Code:

```
def last_candy_child(N, K, A):  
  
    # Calculate the index of the last child to receive candy  
  
    last_child = (A - 1 + K - 1) % N + 1  
    return last_child  
  
# Input reading  
N, K, A = map(int, input().strip().split()) # Read N, K, A from input  
  
# Calculate and print the last child who will receive candy  
result = last_candy_child(N, K, A)  
print(result)
```

RESULT

6 / 6 Test Cases Passed | 100 %