



STUDENT REPORT

DETAILS

Name

Suraj Desai

Roll Number

3BR23EE099

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: $A, A+1, A+2, \dots, N$. 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_recipient(N, K, A):
    last_child = (A - 1 + K - 1) % N + 1
    return last_child

# Example usage:
N, K, A = map(int, input().strip().split())
print(last_candy_recipient(N, K, A))
```

RESULT

6 / 6 Test Cases Passed | 100 %

38A

E099

223E6

38R
R236

E099
29 38

223E6
EE09

38R23
R2