



# STUDENT REPORT

## DETAILS

Name

VIKAS

Roll Number

KUB23CSE158

## 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_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

KUB2

158 K

158 K

158 K

158 K

158 K

158 K