Logo

# STUDENT REPORT

## DETAILS

**Name**

CHANDRASHEKAR H

**Roll Number**

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## 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<= 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 seperated integers N, K and A.

**Output Format:**

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

**Constraints:**

**1<=N<=K<=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 %