Base X

Assignment 1
Computer Programming
Due date: 10 September, 2018

Description: You are given three integers: n, x, y.

Number n is in base x.

Number m is in base y and is equal to n in base x.

Find m.

Input

First line of input contains three integers n, x, y.

Output

Print the number m.

Constraints

n, m are integers between 1 and 10^{15} (Both Inclusive).

x is an integer between 2 and 10 (Both Inclusive).

y is an integer between 2 and 10 (Both Inclusive).

Sample Test Case

Input	Output
23 8 10	19