

## A. Adding Digits

time limit per test: 2 seconds

memory limit per test: 256 megabytes

input: standard input

output: standard output

Vasya has got two number:  $a$  and  $b$ . However, Vasya finds number  $a$  too short. So he decided to repeat the operation of lengthening number  $a$   $n$  times.

One operation of lengthening a number means adding exactly one digit to the number (in the decimal notation) to the right provided that the resulting number is divisible by Vasya's number  $b$ . If it is impossible to obtain the number which is divisible by  $b$ , then the lengthening operation cannot be performed.

Your task is to help Vasya and print the number he can get after applying the lengthening operation to number  $a$   $n$  times.

### Input

The first line contains three integers:  $a, b, n$  ( $1 \leq a, b, n \leq 10^5$ ).

### Output

In a single line print the integer without leading zeros, which Vasya can get when he applies the lengthening operations to number  $a$   $n$  times. If no such number exists, then print number -1. If there are multiple possible answers, print any of them.

### Examples

<b>input</b>
5 4 5
<b>output</b>
524848
<b>input</b>
12 11 1
<b>output</b>
121
<b>input</b>
260 150 10
<b>output</b>
-1

### Codeforces Round #158 (Div. 2)

Finished

### → Virtual participation

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Start virtual contest

### → Problem tags

implementation math

No tag edit access

### → Contest materials

- Announcement 
- Tutorial 