

HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

A. Wrong Subtraction

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

Little girl Tanya is learning how to decrease a number by one, but she does it wrong with a number consisting of two or more digits. Tanya subtracts one from a number by the following algorithm:

- if the last digit of the number is non-zero, she decreases the number by one;
- if the last digit of the number is zero, she divides the number by 10 (i.e. removes the last digit).

You are given an integer number n. Tanya will subtract one from it k times. Your task is to print the result after all k subtractions.

It is guaranteed that the result will be positive integer number.

Input

The first line of the input contains two integer numbers n and k ($2 \le n \le 10^9$, $1 \le k \le 50$) — the number from which Tanya will subtract and the number of subtractions correspondingly.

Output

Print one integer number — the result of the decreasing n by one k times.

It is guaranteed that the result will be positive integer number.

Examples

input	Сору
512 4	
output	Сору
50	
input	Сору
1000000000 9	
output	Сору
1	

Note

The first example corresponds to the following sequence: 512 o 511 o 510 o 51 o 50 .

Codeforces Round #479 (Div. 3) Finished Practice

→ Virtual participation

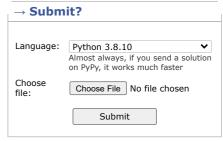
Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest







Codeforces (c) Copyright 2010-2022 Mike Mirzayanov
The only programming contests Web 2.0 platform
Server time: Aug/08/2022 14:25:15^{UTC+4.5} (k1).
Desktop version, switch to mobile version.
Privacy Policy

Supported by

