

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 ($2 \leq n \leq 10^9$, $1 \leq k \leq 50$) — 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	Copy
512 4	
output	Copy
50	

input	Copy
1000000000 9	
output	Copy
1	

Note

The first example corresponds to the following sequence: $512 \rightarrow 511 \rightarrow 510 \rightarrow 51 \rightarrow 50$.

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](#)

→ Submit?

Language: Java 1.8.0_241

Choose file: [Choose File](#) No file chosen

[Submit](#)

→ Last submissions

Submission	Time	Verdict
132493065	Oct/20/2021 08:17	Accepted
132492739	Oct/20/2021 08:11	Compilation error
132492559	Oct/20/2021 08:09	Compilation error

→ Problem tags

[implementation](#) [*800](#)

No tag edit access

→ Contest materials

- Tutorial

[Codeforces](#) (c) Copyright 2010-2021 Mike Mirzayanov
The only programming contests Web 2.0 platform
Server time: Oct/20/2021 01:17:57^{UTC-4} (h3).
Desktop version, switch to [mobile version](#).
[Privacy Policy](#)

Supported by



ITMO UNIVERSITY