

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



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Language: Python 3.8.10

Almost always, if you send a solution on PyPy, it works much faster

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