

## Problem E. Wrong Subtraction

**Time Limit** 1000 ms

**Mem Limit** 262144 kB

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	Output
512 4	50

Input	Output
1000000000 9	1

## Note

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