# **Challenge 4: Pihu's Subtraction**

Little girl Pihu is learning how to decrease a number by one, but she does it wrong with a number consisting of two or more digits. Pihu 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**. Pihu 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.

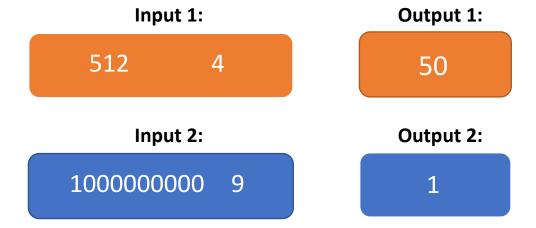
#### Input:

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 Pihu will subtract and the number of subtractions correspondingly.

#### **Output:**

Print one integer number — the result of the decreasing n by one  ${\bf k}$  times. It is guaranteed that the result will be positive integer number.

### **Examples:**



# **HINT:**

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