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 ≤ n ≤ 10^9**, **1 ≤ k ≤ 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 **k** times.
It is guaranteed that the result will be positive integer number.

Examples:

Input 1:

```
512 4
```

Output 1:

```
50
```

Input 2:

```
1000000000 9
```

Output 2:

```
1
```

HINT:

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