Security - Key Spaces

Problem Statement

K denotes a set called the $key\ space$. Any element of K is called a key.

Each element $e \in K$ uniquely determines a bijection from M to C, denoted by E_e. E_e is called an encryption function. Similarly for each $d \in K$ we have a bijection from C to M, denoted by D_d and it is called a decryption function.

For example, consider the same shifting function that we dealt with in the previous challenge. Now suppose the amount of shift we do is some e ($e = 1$ in previous question). Then e is a valid key representing the bijective function $f(x, e) = shift\_x\_by\_e$.

For this task, consider a message which consists of decimal digits and a key e which operates by shifting each digit by e places. Find the corresponding cipher text.

Constraints
$1 \leq Length\ of\ the\ string \leq 10$
$0 \leq e \leq 9$

Input Format

Input consists of 2 lines.
The first line contains the message string.
The second line contains the key e.

Output Format

Output a single line which contains the cipher thus obtained.

Sample Input

```
391
2
```

Sample Output

```
513
```