Caesar's code

- Time limit: 1 second

- Memory limit: 256 MB

In cryptography, the Caesar cipher is one of the simplest and most well-known encryption techniques. In this type of encryption, each letter is similar to one and only one other letter of the alphabet; In this way, all the letters are circularly similar to the x-th letter after them.

For example, for abcd, if x = 3, its encrypted equivalent is equal to defg. Your task is to decode a string.

Input

The input consists of three lines. A letter of the alphabet is entered in the first line and the encrypted equivalent of that letter is entered in the second line. In the third line, an encrypted word is entered.

It is guaranteed that the input string is shorter than 70 characters and all the inputs are English lowercase letters.

Output

Output

The output of the program must be the decoded equivalent of the input string.

Sample input 1

```
t
w
txlfn
```

Sample output 1

```
quick
```

Sample input 2

```
c
z
zlkcfabkqfxi
```

Sample output 2

```
confidential
```

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