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Caesar Cipher



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Problem

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Editorial

Julius Caesar protected his confidential information by encrypting it in a cipher. Caesar's cipher rotated every letter in a string by a fixed number, K , making it unreadable by his enemies. Given a string, S , and a number, K , encrypt S and print the resulting string.

Note: The cipher *only* encrypts letters; symbols, such as `-`, remain unencrypted.

Input Format

The first line contains an integer, N , which is the length of the unencrypted string.

The second line contains the unencrypted string, S .

The third line contains the integer encryption key, K , which is the number of letters to rotate.

Constraints

$$1 \leq N \leq 100$$

$$0 \leq K \leq 100$$

S is a valid ASCII string and doesn't contain any spaces.

Output Format

For each test case, print the encoded string.

Sample Input

```
11
middle-Outz
2
```

Sample Output

```
okffng-Qwvb
```

Explanation

Each unencrypted letter is replaced with the letter occurring K spaces after it when listed alphabetically. Think of the alphabet as being both case-sensitive and circular; if K rotates past the end of the alphabet, it loops back to the beginning (i.e.: the letter after z is a , and the letter after Z is A).

Selected Examples:

m (ASCII 109) becomes o (ASCII 111).

i (ASCII 105) becomes k (ASCII 107).

`-` remains the same, as symbols are not encoded.

O (ASCII 79) becomes Q (ASCII 81).

z (ASCII 122) becomes b (ASCII 98); because z is the last letter of the alphabet, a (ASCII 97) is the next letter after it in lower-case rotation.

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Submissions: 32465



Max Score: 15

Difficulty: Easy

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C#  

```
1 using System;
2 using System.Collections.Generic;
3 using System.IO;
4 using System.Linq;
5 class Solution {
6
7     static void Main(String[] args) {
8         int n = Convert.ToInt32(Console.ReadLine());
9         string s = Console.ReadLine();
10        int k = Convert.ToInt32(Console.ReadLine());
11    }
12 }
13
```

Line: 1 Col: 1

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