Rotational Cipher

One simple way to encrypt a string is to "rotate" every alphanumeric character by a certain amount. Rotating a character means replacing it with another character that is a certain number of steps away in normal alphabetic or numerical order.

For example, if the string `"Zebra-493?"` is rotated 3 places, the resulting string is `"Cheud-726?"`. Every alphabetic character is replaced with the character 3 letters higher (wrapping around from Z to A), and every numeric character replaced with the character 3 digits higher (wrapping around from 9 to 0). Note that the non-alphanumeric characters remain unchanged.

Given a string and a rotation factor, return an encrypted string.

Signature

```
string rotationalCipher(string input, int rotationFactor)
```

Input

1 <= |input| <= 1,000,000
0 <= rotationFactor <= 1,000,000

Output

Return the result of rotating `input` a number of times equal to `rotationFactor`.

Example 1

```
input = Zebra-493?
rotationFactor = 3
output = Cheud-726?
```

Example 2

```
input = abcdefghijklmNOPQRSTUVWXYZ0123456789
rotationFactor = 39
output = nopqrstuvwxyzABCDEFGHIJKLM9012345678
```