Decryption

Solved: 51
Attempted: 53

To enter the code breaker competition you will have to decrypt a set of words we have already encrypted using the following encryption algorithm.

When a **plaintext** and a key **N** is provided, each **l**etter of the plaintext will be incremented sequentially till N letters and the incrementing sequence will repeat again.

For an example consider the word:**DOTITUDE** and the key (N)=**3**
Then the encrypted text would be:**EQWJVXEG**

As the key given is **3**, letter D is incremented by 1, O is incremented by 2, T is incremented by 3 and again I is incremented by 1 , T is incremented by 2 and so on.

Your task is to decrypt the encrypted words we will be providing.

Input Format

First line will consist the encrypted word
The **second line** will be the Key (N)

Constraints

0 < **N** < 27
Encrypted word only consist with uppercase and lowercase characters

Output Format

Decrypted word (Plaintext)

Sample Input 0

```
EQWJVXEG
3
```

Sample Output 0

```
DOTITUDE
```

Sample Input 1

```
BDDFfhHJ
2
```

Sample Output 1

```
ABCDefGH
```

Contest ends in a day

Submissions: 43
Max Score: 75

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Python 3

```
word = input()
N = int(input())

word_list = list(word)

word_length = len(word_list)

main_list = []
sub_list = []

x = int(word_length/N)

for i in range(x):
    for j in range(N):
        sub_list.append(word_list[0])
        word_list.remove(word_list[0])
    main_list.append(sub_list)
    sub_list = []

if (len(word_list)>0):
    main_list.append(word_list)

for list in main_list:
    n = 1
    for element in list:
        a = ord(element)
        if (65<=a<=90):
            if (a-n<65):
                print(chr(a-n+26), end = "")
            else:
                print(chr(a-n), end = "")
        if (97<=a<=122):
            if (a-n<97):
                print(chr(a-n+26), end = "")
            else:
                print(chr(a-n), end = "")
        n = n+1
```

Line: 1 Col: 1

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