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# Decryption

Problem

Submissions

Leaderboard

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

Solved: 51  
Attempted: 53

When a **plaintext** and a key **N** is provided, each letter 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

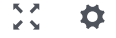
Submissions: 43

Max Score: 75

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Python 3



```
1 word = input()
2 N = int(input())
3
4 word_list = list(word)
5
6 word_length = len(word_list)
7
8 main_list = []
9 sub_list = []
10
11 x = int(word_length/N)
12
13 for i in range(x):
14     for j in range(N):
15         sub_list.append(word_list[0])
16         word_list.remove(word_list[0])
17     main_list.append(sub_list)
18     sub_list = []
19
20 if (len(word_list)>0):
21     main_list.append(word_list)
22
23 for list in main_list:
24     n = 1
25     for element in list:
26         a = ord(element)
27         if (65<=a<=90):
28             if (a-n<65):
29                 print(chr(a-n+26), end = "")
30             else:
31                 print(chr(a-n), end = "")
32         if (97<=a<=122):
33             if (a-n<97):
34                 print(chr(a-n+26), end = "")
35             else:
36                 print(chr(a-n), end = "")
37     n = n+1
```

Line: 1 Col: 1

[Upload Code as File](#) ☐ Test against custom input

Run Code

Submit Code