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# Repeated String ☆

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## Problem

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Lilah has a string,  $s$ , of lowercase English letters that she repeated infinitely many times.

Given an integer,  $n$ , find and print the number of letter a's in the first  $n$  letters of Lilah's infinite string.

For example, if the string  $s = \text{'abcac'}$  and  $n = 10$ , the substring we consider is *abcacabcac*, the first 10 characters of her infinite string. There are 4 occurrences of a in the substring.

### Function Description

Complete the `repeatedString` function in the editor below. It should return an integer representing the number of occurrences of a in the prefix of length  $n$  in the infinitely repeating string.

`repeatedString` has the following parameter(s):

- $s$ : a string to repeat

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Difficulty [Easy](#)

Max Score 20

Submitted By [248220](#)

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- $n$ : the number of characters to consider

### Input Format

The first line contains a single string,  $s$ .

The second line contains an integer,  $n$ .

### Constraints

- $1 \leq |s| \leq 100$
- $1 \leq n \leq 10^{12}$
- For **25%** of the test cases,  $n \leq 10^6$ .

### Output Format

Print a single integer denoting the number of letter a's in the first  $n$  letters of the infinite string created by repeating  $s$  infinitely many times.

### Sample Input 0

```
aba
10
```

### Sample Output 0

```
7
```

### Explanation 0

The first  $n = 10$  letters of the infinite string are abaabaabaa. Because there are **7** a's, we print **7** on a new line.



### MORE DETAILS

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### Sample Input 1

```
a
1000000000000000
```

### Sample Output 1

```
1000000000000000
```

### Explanation 1

Because all of the first  $n = 1000000000000000$  letters of the infinite string are a, we print **1000000000000000** on a new line.

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Python 3



```
10         count+=1
11     l=len(s) #length of the input string
12     if n%l==0: #if length of stirng divides n
13         a=n//l
14         count*=a
15
16
17
18     else:     #if length of stirng doesnt divides n
19         a=n//l
```

```
20         c=n%l
21         count*=a
22         for j in range(c): #to count whether any a's in the substirng
23             if s[j]=='a':
24                 count+=1
25         print(count)
26
27
28
29 result = repeatedString()
30
31
```

Line: 17 Col: 9

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

## Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

### ✓ Sample Test case 0

### ✓ Sample Test case 1

Input (stdin)

[Download](#)1 **aba**2 **10**

Your Output (stdout)

1 **7**

Expected Output

[Download](#)1 **7**

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