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Repeated String ☆

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Problem Submissions Leaderboard Editorial △ **Discussions** Author tunyash Lilah has a string, \boldsymbol{s} , of lowercase English letters that she repeated infinitely many times. Difficulty Easy Given an integer, n, find and print the number of letter a's in the first n letters of Lilah's infinite string. Max Score 20 For example, if the string s= 'abcac' and n=10, the substring we consider is abcacabcac, the first 10Submitted By 248220 characters of her infinite string. There are $\bf 4$ occurrences of $\bf a$ in the substring. NEED HELP? **Function Description** View discussions 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. View editorial repeatedString has the following parameter(s): View top submissions • s: a string to repeat RATE THIS CHALLENGE

• n: the number of characters to consider

Input Format

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

The second line contains an integer, \boldsymbol{n} .

Constraints

- $1 \le |s| \le 100$
- $1 \le n \le 10^{12}$
- 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 $m{n}$ 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.



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Sample Input 1

а

10000000000000

Sample Output 1

1000000000000

Explanation 1

on a new line.

```
Python 3
                           Change Theme
    def repeatedString():
        s = input()
        n = int(input())
         count=0 #for noof a's
 5
         #the below for loop for no of a's in the input sting
 6
        for i in s:
             if i=='a':
 8
9
                 count+=1
10
        l=len(s) #length of the input string
         if n%l==0: #if length of stirng divides n
11
```

```
a=n//l
count*=a
 12
13
           else:
                        #if length of stirng doesnt divides n
 14
                a=n//l
 15
                c=n%l
 16
 17
                count*=a
                for j in range(c): #to count whether any a's in the substirng
 18
                    if s[j]=='a':count+=1
 19
           print(count)
 20
       result = repeatedString()
 21
 22
 23
                                                                       Line: 21 Col: 1
1 Upload Code as File
                    ☐ Test against custom input
                                                                      Submit Code
                                                       Run Code
```

Congratulations!

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



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