





Repeated String ☆

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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 = `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
- 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

- $1 \le |s| \le 100$
- $1 \le n \le 10^{12}$
- 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 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 let
```

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

Sample Input 1

a 10000000000000

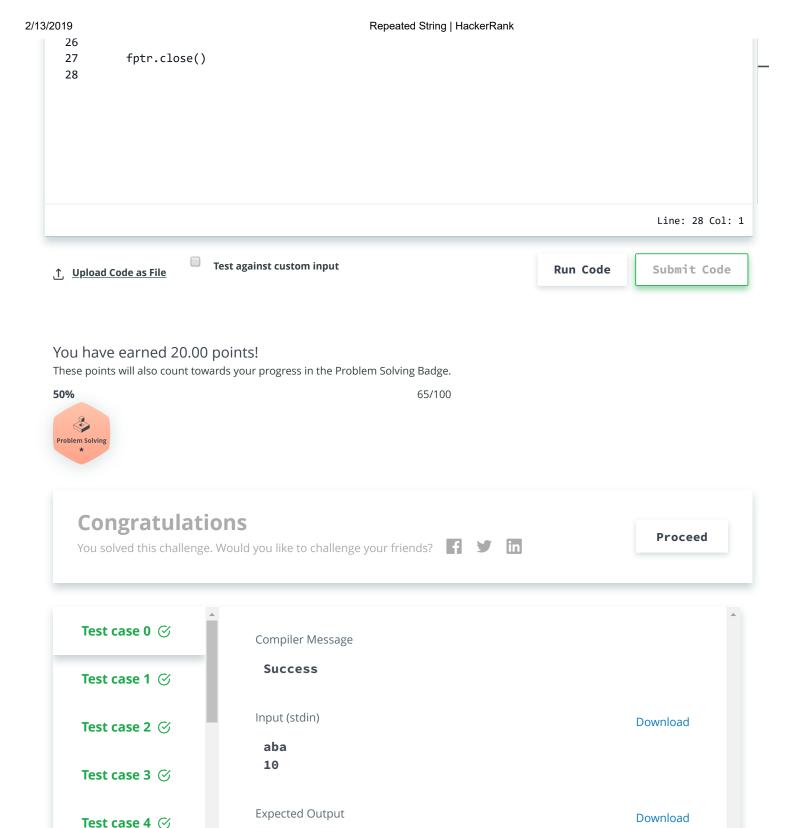
Sample Output 1

10000000000000

Explanation 1

Because all of the first n = 100000000000000 letters of the infinite string are a, we print 10000000000000 on a new line.

```
Python 3
 1
     #!/bin/python3
 2
 3
     import math
 4
     import os
 5
     import random
 6
     import re
 7
     import sys
 8
 9
     # Complete the repeatedString function below.
10
     def repeatedString(s, n):
11
         total=((n//len(s))*s.count("a")) + (s[:n%len(s)].count("a"))
12
13
         #print(total)
14
         return total
15
16
     if __name__ == '__main__':
         fptr = open(os.environ['OUTPUT_PATH'], 'w')
17
18
19
         s = input()
20
         n = int(input())
21
22
23
         result = repeatedString(s, n)
24
         fptr.write(str(result) + '\n')
25
```



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Test case 5 ⊗

Test case 6 ⊗

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