

Repeated String



Problem Submissions Leaderboard Discussions Editorial

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.

Input Format

The first line contains a single string, s. The second line contains an integer, n.

Constraints

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

Sample Input 1

a 10000000000000

Sample Output 1

1000000000000

Explanation 1

Because all of the first n=10000000000000 letters of the infinite string are a , we print 1000000000000 on a new line.

Submissions: 12212 Max Score: 20 Difficulty: Easy

Rate This Challenge:
公公公公公

```
C#
 Current Buffer (saved locally, editable) & 5
 1 using System;
 2
    using System.Collections.Generic;
   using System.IO;
 4 using System.Linq;
 5 v class Solution {
 6
 7 ▼
        static void Main(String[] args) {
 8
           string s = Console.ReadLine();
 9
               long n = long.Parse(Console.ReadLine());
10
               //string s = "a";
11
               //long n = 10000000000000;
12
13
               //string s = "aab";//588525
14
15
               //long n = 882787;
16
17
               //string s = "aba";
18
               //long n = 10;
19
20
               //string s = "afcfffaged";//192529151691
21
               //long n = 962645758455;
22
23
               //long count = 0;
24
25
               //string s =
    26
               //long n = 649606239668; //162401559918
27
28
29
               int a_s = s.Count(e => e == 'a');
30
31
               long cantidad_s = n / s.Length;
32
               long sobra = n % s.Length;// s.Length - ((s.Length * Math.Ceiling(cantidad_s)) - n);
33
34
               // Console.WriteLine(sobra);
35
36
               Console.WriteLine((long)((long)(cantidad_s * a_s)
37
                        + (s.Substring(0, (int)sobra).Count(e => e == 'a'))));
38
39
40
41
       }
42
    }
43
                                                                                                      Line: 25 Col: 54
                     Test against custom input
                                                                                            Run Code
1 Upload Code as File
                                                                                                        Submit Code
                                     Congrats, you solved this challenge!
```

✓ Test Case #0 ✓ Test Case #1 ✓ Test Case #2 Test Case #3 ✓ Test Case #4 ✓ Test Case #5 ✓ Test Case #6 ✓ Test Case #7 ✓ Test Case #8 ✓ Test Case #10 ✓ Test Case #9 ✓ Test Case #11 ✓ Test Case #12 ✓ Test Case #13 ✓ Test Case #14 ✓ Test Case #16 Test Case #17 Test Case #15 ✓ Test Case #18 ✓ Test Case #19 ✓ Test Case #20 ✓ Test Case #22 Test Case #21 Next Challenge

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