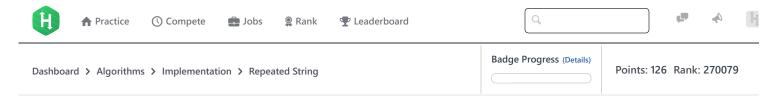
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# Repeated String





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**

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

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Difficulty: Easy
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Current Buffer (saved locally, editable) & 🗘
                                                                                             Java 7
                                                                                                                               \Diamond
 1 ▼ import java.io.*;
 2 import java.util.*;
 3
    import java.text.*;
    import java.math.*;
 4
 5
    import java.util.regex.*;
 7 ▼ public class Solution {
 8
 9 ▼
         public static void main(String[] args) {
10
             Scanner in = new Scanner(System.in);
             String s = in.next();
11
12
             long n = in.nextLong();
13
         }
14
     }
15
                                                                                                                       Line: 1 Col: 1
                                                                                                           Run Code
                                                                                                                        Submit Code
1 Upload Code as File
                       Test against custom input
```

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