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Dashboard > Algorithms > Implementation > Repeated String

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# Repeated String

by tunyash

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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.

**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, $n \le 10^6$.

**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
1000000000000
```

**Sample Output 1**

```
1000000000000
```

**Explanation 1**
Because all of the first $n = 1000000000000$ letters of the infinite string are a , we print $1000000000000$ on a new line.

**Submissions:** 28904

**Max Score:** 20
**Difficulty:** Easy

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```
1 ▾ import java.io.*;
2   import java.util.*;
3   import java.text.*;
4   import java.math.*;
5   import java.util.regex.*;
6
7 ▾ public class Solution {
8
9 ▾     public static void main(String[] args) {
10          Scanner in = new Scanner(System.in);
11          String s = in.next();
12          long n = in.nextLong();
13      }
14  }
15
```

Line: 1 Col: 1

⬆ Upload Code as File        ☐ Test against custom input                    Run Code    Submit Code

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