# **Problem A. Repeated String**

**OS** Linux

There is a string, s, of lowercase English letters that is repeated infinitely many times. Given an integer, n, find and print the number of letter a 's in the first n letters of the infinite string.

#### **Example**

s = 'abcac'

n = 10

The substring we consider is abcacabcac, the first 10 characters of the infinite string. There are 4 occurrences of a in the substring.

#### **Function Description**

Complete the *repeatedString* function in the editor below.

repeatedString has the following parameter(s):

- s: a string to repeat
- *n*: the number of characters to consider

#### **Returns**

• *int*: the frequency of a in the substring

#### **Input Format**

The first line contains a single string,  $\boldsymbol{s}$ .

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,  $n \leq 10^6$ .

### Sample Input

### Sample Input 0

### Sample Output o

7

# Explanation o

The first n=10 letters of the infinite string are <code>abaabaabaa</code> . Because there are  $7\,$  a 's, we return  $7.\,$ 

### Sample Input 1

a

1000000000000

# Sample Output 1

1000000000000

### **Explanation 1**

Because all of the first n=100000000000 letters of the infinite string are  $\,$  a , we return 100000000000.