Repeated String *

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

aba 10

Sample Output O

7

Explanation O

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

Sample Input 1

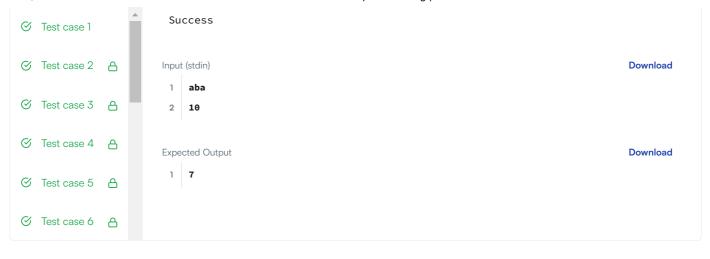
a 10000000000000

Sample Output 1

10000000000000

Explanation 1





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