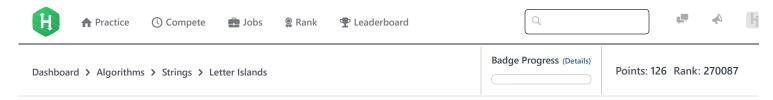
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Letter Islands





You are given string s and number k.

Consider a substring p of string s. For each position of string s mark it if there is an occurrence of the substring that covers the position. More formally, position i will be marked if there exists such index j that: $j \le i \le j + |p| - 1$ and $s_j s_{j+1} \dots s_{j+|p|-1} = p$. We will tell p produce p islands if all the marked positions form p groups of contiguous positions.

For example, if we have a string ababaewabaq the substring aba marks the positions 1, 2, 3, 4, 5, 8, 9, 10; that is XXXXXewXXXq (X denotes marked position). We can see 2 groups of contiguous positions, that is 2 islands. Finally, substring aba produces 2 islands in the string ababaewabaq.

Calculate and print the number of different substrings of string \boldsymbol{s} that produce exactly \boldsymbol{k} islands.

Input Format

The first line contains string s ($1 \le |s| \le 10^5$). The string consists of lowercase letters only. The second line contains an integer k ($1 \le k \le |s|$).

Output Format

Output a single integer — the answer to the problem.

Sample Input

abaab 2

Sample Output

3

Explanation

All the suitable substrings are: a, ab, b.

F in
Submissions:841
Max Score:100
Difficulty: Expert

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```
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 ▼
            /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
11
12 }
                                                                                                                 Line: 1 Col: 1
1 Upload Code as File
                      Test against custom input
                                                                                                     Run Code
                                                                                                                  Submit Code
```

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