### MLE '19 Contest 2 P1 - FUN

Time Limit: 3.0s Memory Limit: 128M

A string is fun if it contains each character at most K times. Given a string S, how many substrings of the string are fun? A substring is a **non-empty** contiguous sequence of characters within a string.

#### **Input Specification**

The first line will contain the string S  $(1 \le |S| \le 10^5)$  . The string will only consist of lowercase latin characters.

The second line will contain the integer K  $(1 \le K \le |S|)$  .

#### **Output Specification**

Output the number of substrings that are considered fun.

#### **Subtasks**

#### **Subtask 1 [10%]**

 $|S| \leq 20$ 

#### **Subtask 2 [20%]**

S will only contain the characters  $\ \ \,$  and  $\ \ \,$  b  $\ \,$  .

#### **Subtask 3 [70%]**

No further constraints.

#### Sample Input 1 (Subtask 1)

abcabca 2

### Sample Output 1

27

### Sample Input 2 (Subtask 2)

aaaaaaaaabbbbbbbbbbba 2

# **Sample Output 2**

45

# Sample Input 3 (Subtask 3)

 ${\tt abcdefghijklmnopqrstuvwxyzabcdefghijklmnopqrstuvwxyz} \\ 1$ 

# **Sample Output 3**

1027