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## G. Not Very Rude Substring

time limit per test: 2 seconds memory limit per test: 256 megabytes

You are given a string s, consisting of n lowercase English letters.

Rudeness of a string t of length k is the number of pairs of integers (i,j), where  $1 \leq i < j \leq k$ , for which  $t_i = 1$ «a» and  $t_j=$  «b». In other words, the rudeness of a string is the number of ways to delete all but two of its characters, so that the string «ab» remains.

Your task is to find a substring  $s_l s_{l+1} \dots s_r$ , the rudeness of which does not exceed c, of maximum length.

## Input

The first line of the input contains two integers n and c ( $1 \leq n \leq 10^6$ ,  $0 \leq c \leq 10^{18}$ ).

The second line contains the string s. The string consists of n lowercase English letters.

## **Output**

Print a single integer, the maximum length of a substring of a string that has rudeness at most c.

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Exa	m	n	00
$-\lambda a$		v	6.5

Examples	
input	Сору
3 1 aab	
output	Сору
2	
input	Сору
6 2	
aabcbb	
output	Сору
4	

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