



HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

## O. Vasya and String

time limit per test: 1 second<sup>

memory limit per test: 256 megabytes</sup>

High school student Vasya got a string of length n as a birthday present. This string consists of letters 'a' and 'b' only. Vasya denotes *beauty* of the string as the maximum length of a **substring** (consecutive subsequence) consisting of equal letters.

Vasya can change no more than k characters of the original string. What is the maximum beauty of the string he can achieve?

#### Input

The first line of the input contains two integers n and k ( $1 \le n \le 100\ 000,\ 0 \le k \le n$ ) — the length of the string and the maximum number of characters to change.

The second line contains the string, consisting of letters 'a' and 'b' only.

#### **Output**

Print the only integer — the maximum beauty of the string Vasya can achieve by changing no more than k characters.

### **Examples**

input	Сору
4 2 abba	
output	Сору
4	

input	Сору
8 1 aabaabaa	
output	Сору
5	

### Note

In the first sample, Vasya can obtain both strings "aaaa" and "bbbb".

In the second sample, the optimal answer is obtained with the string "aaaaabaa" or with the string "aabaaaaa".

### <u>ICPC Assiut University Training -</u> <u>Juniors Phase 1 Sheets-2022</u>

#### **Public**

### **Participant**



#### → **Group Contests**



- Bitset, Bits)
- Juniors Phase 1 Practice #4 ( Binary search , Two pointers )
- Juniors Phase 1 Practice #3 ( STL 2 )
- Juniors Phase 1 Practice #2 ( STL 1 )
- Juniors Phase 1 Practice #1 ( Prefix sum , Frequency Array )

## Juniors Phase 1 Practice #4 ( Binary search, Two pointers)

#### **Finished**

**Practice** 



### → About Time Scaling

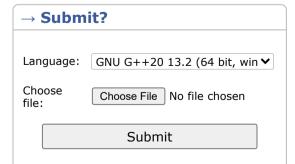
This contest uses time limits scaling policy (depending on a programming language). The system automatically adjusts time limits by the following multipliers for some languages. Despite scaling (adjustment), the time limit cannot be more than 30 seconds.

# ightarrow Virtual participation

Read the details by the link.

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you -solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you -solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest



ightarrow Last submissions		
Submission	Time	Verdict
312329653	Mar/25/2025 16:56	Accepted