

F. Yet Another Substring Reverse

time limit per test: 2 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

You are given a string s consisting only of first 20 lowercase Latin letters ('a', 'b', ..., 't').

Recall that the substring $s[l; r]$ of the string s is the string $s_l s_{l+1} \dots s_r$. For example, the substrings of "codeforces" are "code", "force", "f", "for", but not "coder" and "top".

You can perform the following operation **no more than once**: choose some substring $s[l; r]$ and **reverse** it (i.e. the string $s_l s_{l+1} \dots s_r$ becomes $s_r s_{r-1} \dots s_l$).

Your goal is to maximize the length of the maximum substring of s consisting of **distinct** (i.e. unique) characters.

The string consists of **distinct** characters if no character in this string appears more than once. For example, strings "abcde", "arctg" and "minecraft" consist of distinct characters but strings "codeforces", "abacaba" do not consist of distinct characters.

Input

The only line of the input contains one string s consisting of no more than 10^6 characters 'a', 'b', ..., 't' (first 20 lowercase Latin letters).

Output

Print one integer — the maximum possible length of the maximum substring of s consisting of distinct characters after reversing no more than one its substring.

Examples

input	Copy
abacaba	
output	Copy
3	

input	Copy
abcdecdf	
output	Copy
6	

input	Copy
aabbcc	
output	Copy
3	

input	Copy
abcdeefc	
output	Copy
6	

Codeforces Round #590 (Div. 3)

Finished

Practice



→ Virtual participation

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

→ Practice

You are registered for practice. You can solve problems unofficially. Results can be found in the contest status and in the bottom of standings.

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit?

Language: GNU G++11 5.1.0

Choose file:

选择文件

 未选择任何文件

Submit

→ Problem tags

bitmasks dp *2400

No tag edit access

→ Contest materials

- Announcement #1 (en) ×
- Announcement #2 (ru) ×
- Tutorial #1 (en) ×
- Tutorial #2 (ru) ×

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The only programming contests Web 2.0 platform
Server time: Oct/06/2019 11:11:17^{UTC+8} (h2).
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