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

PROBLEMS   SUBMIT CODE   MY SUBMISSIONS   STATUS   STANDINGS   CUSTOM INVOCATION

A. Palindromes Replace

time limit per test: 1 second❓
memory limit per test: 256 megabytes
input: standard input
output: standard output

As it is known Saeed loves palindrome too much. A palindrome is a string that reads the same forwards as backwards.

One day his best friend Mina gave him a string and told him that this string was a palindrome.

When Saeed arrived home he found that some letters are missing and replaced them with '?' letter and now he wonders if there is a way to replace all the '?' with lowercase letters so that the final string is a palindrome.

If there are multiple such strings, choose the **lexicographically smallest one**.

Input
The input consists of a single line containing the string S $(1 \le |S| \le 100)$.

|S| means the length of the string.

It is guaranteed that S consists of lowercase letters ('a'–'z') and '?'.

Output
Output -1 if it is impossible to get a palindrome by replacing all the '?'.

Otherwise, print the lexicographically smallest palindrome string you can get after replacing all the '?' with lowercase letters.

Examples

input	Copy
a?z?	

output	Copy
azza	

input	Copy
aba	

output	Copy
aba	

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- Sheet #9 (General medium)
- Sheet #8 (General easy)
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- Sheet #6 (Math - Geometry)
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- Sheet #3 (Arrays)
- Contest #2
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Sheet #8 (General easy)

Finished

Practice

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→ **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. Read the details by the link.