Caribbean Online Judge

2900 - LEKTIRA

Description

Mario is making up silly games again instead of reading Dostoevsky for school. The rules of his newest game follow.

First he chooses a random word from the book. Then he splits the word in two arbitrary places to get three separate words. After that he reverses the order of the letters in each of those three words (exchanges the first and last letters, the second and second last and so on). Finally, he puts the three words back together in the same order in which they were before splitting.

The goal of the game is to obtain the lexicographically smallest word possible. In other words, of all words that can be obtained by the above procedure, find one which would be earliest in a dictionary. Write a program that plays Mario's game perfectly.

Input specification

The first and only line of input contains Mario's chosen word, a string of lowercase letters of the English alphabet with no spaces. The input word will be between 3 and 50 characters long (inclusive).

Output specification

Output the best word on a single line.

Sample input

dcbagfekjih

Sample output

abcdefghijk

Hint(s)

Sample input #2

mobitel

Sample output #2

Caribbean Online Judge

bometil

Sample input #3

anakonda

Sample output #3

aanadnok

Croatian Open Competition in

Source Informatics, contest 4 – January 26,

2008

Added by ralcolea

Addition date 2014-05-07

Time limit (ms) 10000

Test limit (ms) 1000

Memory limit (kb) 65535

Output limit (mb) 64

Size limit (bytes) 30000

Bash C C# C++ Java Pascal Perl PHP Enabled languages

Python Ruby Text