

Junior Division - ACSL String Differences

考号/Exam Code : _____ 姓名/Name : _____ 学校/School : _____

PROBLEM: Given 2 strings with all capital letters, eliminate characters using each of the rules below once until only different characters align. The rules are performed in the following order:

- Delete the second occurrence of any double consonant. There will not be more than 2 of the same consonant together.
- Delete all vowels (A, E, I, O, U) unless the vowel is the first character in the string.
- Align the resulting strings from left to right. Then delete all like characters at like positions.
- Align the remaining characters from right to left. Then delete like characters at like positions starting from the end of the string.

Example: MISSISSIPPI
 MISSOURI

After removing the double consonants: MISISIPI
MISSOURI

After removing the vowels: MSSP
MSR

After removing letters from L to R in same location: SP
R

After removing letters from R to L in the same location (no changes):

Output: \mathbf{R}

INPUT: There will be 5 inputs. Each input will contain 2 strings separated by a single space and each fewer than 80 characters.

OUTPUT: For each input, print the shorter of the two resulting strings or the first in alphabetical order if they have the same length. We guarantee that neither is an empty string.

SAMPLE INPUT

SAMPLE OUTPUT:

MISSISSIPPI MISSOURI

CATHERINE KATHERYNE

CONSTITUTIONAL CONVENTIONAL

COMPARTMENTALIZATION SEMIAUTOBIOGRAPHICAL

PHYSICIAN PHARMACY

1. R

2. C

3. VN

4. SBGRPHCL

5. RMY

2019-2020



AMERICAN COMPUTER SCIENCE LEAGUE

Contest #2

Junior Division - ACSL String Differences

TEST DATA

TEST INPUT:

FEEFIFO FUM FIDDLEDEEDEE
MYLOLLIPOPS MYLARBALLOONS
CONNECTICUTCT CONSTITUTIONSTATE
MASSACHUSETTSBAYCOLONY MINUTEMANNATIONALHISTORICALPARK
AMERICANCOMPUTERSCIENCELEAGUE NATIONALACADEMICGAMESLEAGUE

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PROBLEM (问题) : 给定2个由大写字母组成的字符串, 按照下面的规则进行删除字符, 且每个规则按顺序只执行一次, 最后只剩下不同的字符对齐。请按照以下顺序执行规则:

- 若字符串中连续（一起）出现同一个辅音字符，则删除其中一个辅音字符，保证同一个辅音字符在字符串中不能连续（一起）出现超过两次。
- 删除所有的元音字母（A,E,I,O,U），但如元音字母位于字符串的首位，则无需删除。
- 将上一步得到的两个字符串进行左对齐，然后删除相同位置处的相同字母。
- 再将得到的两个字符串进行右对齐，然后从字符串的末尾起，删除相同位置处的相同字母。

示例: MISSISSIPPI
MISSOURI

相同的辅音连续（一起）出现，删除其中一个后得到： MISISIPI
MISSOURI

删除元音字母后得到： MSSP
MSR

将上一步得到的字母左对齐后，删除相同位置的相同字母后得到：

将剩余的字母进行右对齐，然后删除相同位置的相同字母后（没变化）得到：

SP
R

输出：R

INPUT (输入): 共有5组输入。每组输入将包含两个字符串（字符串之间用一个空格隔开），每个字符串少于80个字符。

OUTPUT (输出) : 对于每组输入, 输出两个结果字符串中较短的那个字符串, 如果长度相同, 则输出两个结果字符串中首字母在字母表中顺序靠前的那个字符串。每组输入保证不会输出空字符串。

SAMPLE INPUT :
(示例输入) :

SAMPLE OUTPUT:
(示例输出) :

MISSISSIPPI MISSOURI

1. R

CATHERINE KATHERYNE

2. C

CONSTITUTIONAL CONVENTIONAL

3. VN

COMPARTMENTALIZATION SEMIAUTOBIOGRAPHICAL

4. SBGRPHCL

PHYSICIAN PHARMACY

5. RMY

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TEST DATA

TEST INPUT 测试输入:

FEEFIFO FUM FIDDLEDEEDEE

MYLOLLIPOPS MYLARBALLOONS

CONNECTICUTCT CONSTITUTIONSTATE

MASSACHUSETTSBAYCOLONY MINUTEMANNATIONALHISTORICALPARK

AMERICANCOMPUTERSCIENCELEAGUE NATIONALACADEMICGAMESLEAGUE