

## Junior Division - ACSL String Differences

**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:**

**<http://www.datafiles.acsl.org/2020/contest2/jr-sample-input.txt>**

MISSISSIPPI MISSOURI

CATHERINE KATHERYNE

CONSTITUTIONAL CONVENTIONAL

COMPARTMENTALIZATION SEMIAUTOBIOGRAPHICAL

PHYSICIAN PHARMACY

1. R

2. C

### 3. VN

4. SBGRPHCL

## 5. RMY

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**TEST DATA**

**TEST INPUT:**

FEEFIFO FUM FIDDLEDEEDEE  
MYLOLLIPOPS MYLARBALLOONS  
CONNECTICUTCT CONSTITUTIONSTATE  
MASSACHUSETTSBAYCOLONY MINUTEMANNATIONALHISTORICALPARK  
AMERICANCOMPUTERSCIENCELEAGUE NATIONALACADEMICGAMESLEAGUE

**TEST OUTPUT:**

1. DLDD
2. LPP
3. CCC
4. SCSBYCLNY
5. NTNLC DGM