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#ACSL Contest 2 2019 - 2020
#Junior Division
#String Differences
# Written by Dheethya Balaji
N = input("INPUT: Input 2 strings separated by a single space. Each must be less than 80
characters. ")
N1 = input("INPUT: Input 2 strings separated by a single space. Each must be less than 80
characters. ")
N2 = input("INPUT: Input 2 strings separated by a single space. Each must be less than 80
characters. ")
N3 = input("INPUT: Input 2 strings separated by a single space. Each must be less than 80
characters. ")
N4 = input("INPUT: Input 2 strings separated by a single space. Each must be less than 80
characters. ")
m = []
m.append(N)
m.append(N1)
m.append(N2)
m.append(N3)
m.append(N4)
for q in m:
    L = q.split(" ")
    count2 = 0
    for i in L:
        vowels = 'AEIOU'
        previous_letter = ''
        count = 0
        while count < len(i):
            temp = i[count]
            if temp in vowels:
                if count > 0:
                    i = i[:count] + i[count + 1:]
                else:
                    count += 1
            elif temp == previous_letter:
                i = i[:count] + i[count + 1:]
            else:
                count += 1
                previous_letter = temp
            L[count2] = i
            count2 += 1

    if len(L[0]) > len(L[1]):
        temporary_var = len(L[1])
    else:
        temporary_var = len(L[0])
    x = 0
    while x < temporary_var:
        if (L[0])[x] == (L[1])[x]:
            L[0] = (L[0])[:x] + (L[0])[x + 1:]
            L[1] = (L[1])[:x] + (L[1])[x + 1:]
            temporary_var -= 1
        else:
            x += 1

    y = len(L[0]) - 1
    z = len(L[1]) - 1
    while y >= 0 and z >= 0:
        if (L[0])[y] == (L[1])[z]:
            L[0] = (L[0])[:y] + (L[0])[y + 1:]
            L[1] = (L[1])[:z] + (L[1])[z + 1:]
            y -= 1
            z -= 1

    if len(L[0]) > len(L[1]):
        print("OUTPUT: " + L[1])
    elif len(L[1]) > len(L[0]):
        print("OUTPUT: " + L[0])

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else:  
    L.sort()  
    print("OUTPUT: " + L[0])
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