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package com.acsl.java;

import java.io.File;
import java.util.Arrays;
import java.util.List;
import java.util.Scanner;

public class StringDifference {
    public static void main(String[] args) {
        try {

            // TODO Auto-generated method stub
            File text = new
File("C:\\Workspace\\ACSL_Project\\src\\com\\acsl\\java\\test-data2.txt");
            Scanner scan = new Scanner(text);

            String str1 = "";
            String str2 = "";

            String line = "";
            while (scan.hasNextLine()) {
                line = scan.nextLine();
                // System.out.println(" InPut : " + line);
                String[] arrOfStr = line.split(" ");
                str1 = arrOfStr[0];
                str2 = arrOfStr[1];

                str1 = removeDups(str1);
                str2 = removeDups(str2);
                str1 = removeVowel(str1);
                str2 = removeVowel(str2);

                String tempStr1 = str1;

                str1 = removeLikeCharsLtoR(str1, str2);

                str2 = removeLikeCharsLtoR(str2, tempStr1);
                tempStr1 = str1;

                str1 = removeLikeCharsLtoR(new
StringBuilder(str1).reverse().toString(),
                new
StringBuilder(str2).reverse().toString());
                str1 = new StringBuilder(str1).reverse().toString();

                str2 = removeLikeCharsLtoR(new
StringBuilder(str2).reverse().toString(),
                new
StringBuilder(tempStr1).reverse().toString());
                str2 = new StringBuilder(str2).reverse().toString();

                if (str1.length() < str2.length()) {
                    System.out.println("Output: " + str1);
                } else {
                    System.out.println("Output: " + str2);
                }
            }
        }
    }
}

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        }
    }
} catch (Exception e) {
    e.printStackTrace();
}
}

public static String removeLikeCharsRtoL(String str1, String str2) {
    StringBuilder output = new StringBuilder();
    System.out.println("str1.length: " + str1.length());
    for (int i = str1.length() - 1; i >= 0; i--) {
        char ch1 = str1.charAt(i);
        System.out.println("ch1: " + ch1);
        System.out.println("i: " + i);

        // if(str2)

    }

    return output.toString();
}

public static String removeLikeCharsLtoR(String str1, String str2) {
    StringBuilder output = new StringBuilder();
    for (int i = 0; i < str1.length(); i++) {
        char ch1 = str1.charAt(i);
        if (i < str2.length()) {
            char ch2 = str2.charAt(i);
            if (ch1 != ch2) {
                output.append(ch1);
            }
        } else {
            output.append(ch1);
        }
    }

    return output.toString();
}

public static String removeDups(String word) {
    StringBuilder output = new StringBuilder();
    for (int i = 0; i < word.length(); i++) {
        char ch1 = word.charAt(i);
        if (i < word.length() - 1) {
            char ch2 = word.charAt(i + 1);
            if (ch1 == ch2) {
                i++;
            }
            output.append(ch1);
        } else {
            output.append(ch1);
        }
    }
}

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        return output.toString();
    }

    public static String removeVowel(String str) {
        Character vowels[] = { 'a', 'e', 'i', 'o', 'u', 'A', 'E', 'I', 'O',
'U' };

        List<Character> al = Arrays.asList(vowels);
        StringBuffer sb = new StringBuffer(str);
        for (int i = 1; i < sb.length(); i++) {

            if (al.contains(sb.charAt(i))) {
                sb.replace(i, i + 1, "");
                i--;
            }
        }
        return sb.toString();
    }
}
```