

## Wadkar\_S\_stringdifferences.py

```
1 def doublec(string,c):
2     for x in range(len(string)):
3         if string[x] == string[x-1] and x != 0 and string[x] in c:
4             string[x] = "!"
5     return [x for x in string if "!" not in x]
6 def vowel(string,v):
7     for x in range(len(string)):
8         if x != 0 and string[x] in v:
9             string[x] = "!"
10    return [x for x in string if "!" not in x]
11 def check(string1,string2):
12    for x in range(len(string1)):
13        try:
14            if string1[x] == string2[x]:
15                string1[x] = "!"
16                string2[x] = "!"
17        except IndexError:
18            continue
19    return [x for x in string1 if "!" not in x],[y for y in string2 if "!" not in y]
20 f = open("2-jr.txt","r")
21 c = "BCDFGHJKLMNPQRSTVWXYZ"
22 v = "AEIOU"
23 for line in f.readlines():
24    userinput = line.rstrip("\n").split(" ")
25    word1 = []
26    word2 = []
27    for x in range(len(userinput)):
28        for y in range(len(userinput[x])):
29            if x == 0:
30                word1.append(userinput[x][y])
31            else:
32                word2.append(userinput[x][y])
33    word1,word2 = doublec(word1,c),doublec(word2,c)
34    word1,word2 = vowel(word1,v),vowel(word2,v)
35    word1,word2 = check(word1,word2)
36    word1,word2 = check(word1[::-1],word2[::-1])
37    word1,word2 = word1[::-1],word2[::-1]
38    if len(word1) == len(word2):
39        print("".join(min(word1,word2)))
40    elif len(word1) < len(word2):
41        print("".join(word1))
42    else:
43        print("".join(word2))
44
45
46
```