Java → Basic syntax and simple programs → Strings → Processing strings

Java → Create a euphonious word

📊 Hard   🕐 25 minutes   ❓

Code Challenge — Write a program

All the letters of the English alphabet are divided into vowels and consonants.
The vowels are: a, e, i, o, u, y.
The remaining letters are consonants.

A word is considered euphonious if it has not three or more vowels or consonants in a row. Otherwise, it is considered discordant.

Your task is to create euphonious words from discordant. You can insert any letters inside word. You should output the minimum number of characters needed to create a euphonious word from a given word.

For example, word "schedule" is considered discordant because it has three consonants in a row - "sch". To create a euphonious word you need to add any vowel between 's' and 'c' or between 'c' and 'h'.

Sample Input 1:

```
schedule
```

Sample Output 1:

```
1
```

Sample Input 2:

```
garage
```

Sample Output 2:

```
0
```

Sample Input 3:

```
player
```

Sample Output 3:

```
1
```

Sample Input 4:

```
biiiiig
```

Sample Output 4:

```
2
```

Code Editor   **IDE**

🟧 Solve in IDE

✓ **IDE is responding** IntelliJ IDEA 2019.3

✓ **Plugin is responding** 3.2-2019.3-3686

✓ **Correct, but can be improved**

Thanks for your feedback!

Write here how we could improve this problem

Continue

Time limit: 8 seconds   Memory limit: 256 MB

Comments (12)   Hints (2)   Useful links (0)   Solutions (5)

SK   Share something, Sergey Kubatko

Post   Please do not post solutions here

Sort by: Last posted ▾

OR   **Oleksandr Rodiuk** about 2 months ago   Report

I've done it!

♡ 0   **Reply**

DT   **Dan Tinsley** 4 months ago   Report

@Sergey
Try doing it without regular expressions. They are a great tool, but this challenge wasn't meant for regular expressions, since they weren't taught to us yet in the curriculum.

♡ 0   **Reply**

S   **Sergey** 4 months ago   Report

everything works and passes tests, if you think a little and carefully read the tasks. I used regular expressions.

♡ 0   **Reply**

PK   **Pavel Kurashov** 5 months ago   Report

@User 660924, here in word player - three vowels in a row - plAYEr - you need at least one consonant between them.

♡ 0   **Reply**

U6   **User 660924** 5 months ago   Report

Input:
player
Your output:
0
Correct output:

♡ 1   Show all   **Reply**

LF   **László Fuder** 5 months ago   Report

@Elena Efremova, Thank you very much for your help. It works perfectly now.

♡ 0   **Reply**

EE   **Elena Efremova** 5 months ago   Report

@László Fuder, for the string "eeeeeeeeeerrrreeeeeeee" the correct answer is 8 --> see e.g. insertions of capital letters in "eeKeeKeeKeeKeerrArreeKeeKeeKee"

♡ 0   **Reply**

LF   **László Fuder** 5 months ago   Report

Failed test #6. Wrong answer
What is the solution for : "eeeeeeeeeerrrreeeeeeee"?

My solution is 10 but I failed.

♡ 0   **Reply**

A   **Andrey**   6 months ago   *Report*

Try to divide your value on 845 before output.

♡ 0   **Reply**

I   **IguanaIguana**   6 months ago   *Report*

Your output:
845
Correct output:
1

♡ 1   **Show all**   **Reply**

SK   **Sergey Kubatko**   7 months ago

try to check corner-cases: aaa, aaaa ... etc.

♡ 0   **Reply**

AC   **Abdurrahman Celebi**   11 months ago   *Report*

I am getting the error:
Failed test #5. Wrong answer

this is not good. My code is working perfect it eclipse but your test fails without giving any information. Either accept the code or give the reason please.

♡ 0   **Reply**