Re.findall() & Re.finditer() ★

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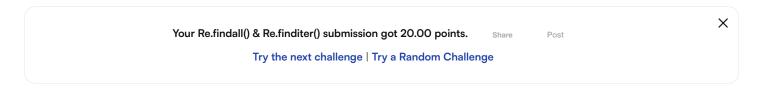
Problem   Submissions   Leaderboard   Editorial 🔒

re.findall()

The expression re.findall() returns all the non-overlapping matches of patterns in a string as a list of strings.

Code

```
>>> import re
>>> re.findall(r'\w','http://www.hackerrank.com/')
['h', 't', 't', 'p', 'w', 'w', 'w', 'h', 'a', 'c', 'k', 'e', 'r', 'r', 'a', 'n', 'k', 'c', 'o', 'm']
```

re.finditer()

The expression re.finditer() returns an iterator yielding `MatchObject` instances over all non-overlapping matches for the re pattern in the string.

Code

```
>>> import re
>>> re.finditer(r'\w','http://www.hackerrank.com/')
<callable-iterator object at 0x0266C790>
>>> map(lambda x: x.group(),re.finditer(r'\w','http://www.hackerrank.com/'))
['h', 't', 't', 'p', 'w', 'w', 'w', 'h', 'a', 'c', 'k', 'e', 'r', 'r', 'a', 'n', 'k', 'c', 'o', 'm']
```

Task

You are given a string S. It consists of alphanumeric characters, spaces and symbols(+,-).

Your task is to find all the substrings of S that contains 2 or more vowels.

Also, these substrings must lie in between 2 consonants and should contain vowels only.

Note :

Vowels are defined as: `AEIOU` and `aeiou`.

Consonants are defined as: `QWRTYPSDFGHJKLZXCVBNM` and `qwrtypsdfghjklzxcvbnm`.

Input Format

A single line of input containing string S.

Constraints

$0 < len(S) < 100$

Output Format

Print the matched substrings in their order of occurrence on separate lines.

If no match is found, print `-1`.

Sample Input

```
rabcdeefgyYhFjkIoomnpOoorteeeeet
```

Sample Output

```
ee
Ioo
Oeo
eeeee
```

Explanation

ee is located between consonant d and f.

Ioo is located between consonant k and m.

Oeo is located between consonant p and r.
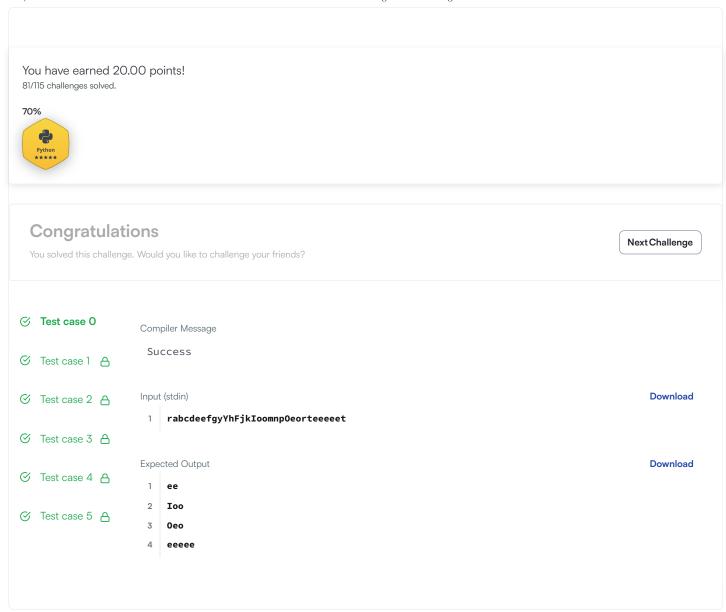
eeeee is located between consonant t and t.

Change Theme   Language   Python 3   ⌄   ↺   ⤢   ⋮

```python
1   import re
2
3   def find_vowel_substrings(s):
4       pattern = r'(?<=[^aeiou])([aeiou]{2,})(?=[^aeiou])'
5       matches = re.findall(pattern, s, flags=re.IGNORECASE)
6       return matches if matches else ['-1']
7
8   s = input().strip()
9   result = find_vowel_substrings(s)
10  print('\n'.join(result))
```

EMACS   Line: 10 Col: 25

⬆ Upload Code as File   ☐ Test against custom input   Run Code   Submit Code

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81/115 challenges solved.

70%

Congratulations

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Next Challenge

✓ **Test case 0**

Compiler Message

Success

✓ Test case 1 🔒

✓ Test case 2 🔒

Input (stdin)   Download

1   rabcdeefgyYhFjkIoomnpOeorteeeeet

✓ Test case 3 🔒

Expected Output   Download

✓ Test case 4 🔒

1   ee
2   Ioo
3   Oeo
4   eeeee

✓ Test case 5 🔒

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