Re.findall() & Re.finditer() ★

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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.
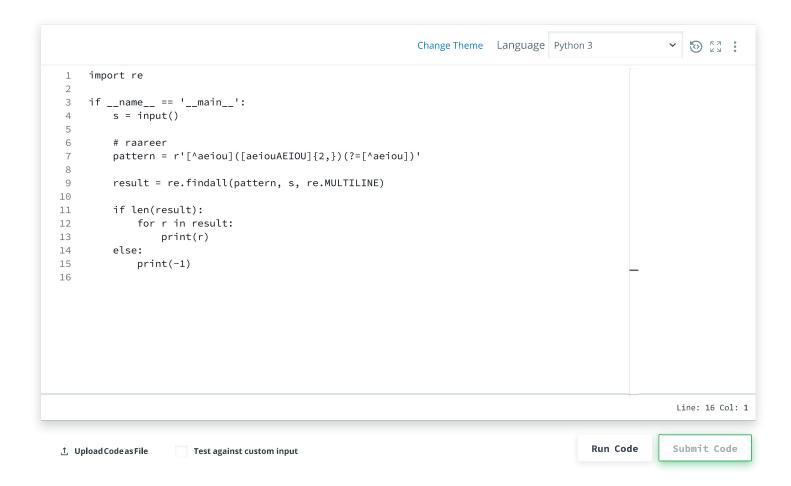
Sample Input

```
rabcdeefgyYhFjkIoomnpOeorteeeeet
```

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.

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```python
1   import re
2
3   if __name__ == '__main__':
4       s = input()
5
6       # raareer
7       pattern = r'[^aeiou]([aeiouAEIOU]{2,})(?=[^aeiou])'
8
9       result = re.findall(pattern, s, re.MULTILINE)
10
11      if len(result):
12          for r in result:
13              print(r)
14      else:
15          print(-1)
16
```

Line: 16 Col: 1

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

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⊘ **Test case 2** 🔒

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⊘ **Test case 5** 🔒

Compiler Message

Success

Input (stdin)   Download

```
1    rabcdeefgyYhFjkIoomnpOeorteeeeet
```

Expected Output   Download

```
1    ee
2    Ioo
3    Oeo
4    eeeee
```