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Practice > Python > Regex and Parsing > Re.findall() & Re.finditer()

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

Author   DOSHI

Difficulty   Easy

Max Score   20

Submitted By   6993

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f   🐦   in

$0 < len(S) < 100$

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.

Current Buffer (saved locally, editable)   Python 3   ⤢ ⚙

```python
1  import re
2  s = '[qwrtypsdfghjklzxcvbnm]'
3  a = re.findall('(?<=' + s +')([aeiou]{2,})' + s, input(), re.I)
4  print('\n'.join(a or ['-1']))
5
```

                                                                          Line: 4 Col: 30

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

Congratulations

                                                                 Next
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You solved this challenge. Would you like to challenge your friends?

Challenge

f y in

✓ Testcase 0   ✓ Testcase 1   ✓ Testcase 2   ✓ Testcase 3

6 Testcases ⌄

Input (stdin)	Download	Expected Output	Download
rabcdeefgyYhFjkIoomnpOeorteeee et		ee Ioo Oeo	

Compiler Message

Success