

# Re.findall() & Re.finditer()

## 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

rabcddeefgyYhFjkIoomnpOeorteeeeet

## Sample Output

```
ee
Ioo
Oeo
eeee
```

## 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*.  
**eeee** is located between consonant *t* and *t*.