Day 2: Loops

Objective

In this challenge, we practice looping over the characters of string. Check out the attached tutorial for more details.

Task

Complete the *vowelsAndConsonants* function in the editor below. It has one parameter, a string, s, consisting of lowercase English alphabetic letters (i.e., a through z). The function must do the following:

1. First, print each *vowel* in s on a new line. The English vowels are *a*, *e*, *i*, *o*, and *u*, and each vowel must be printed in the same order as it appeared in s.

2. Second, print each *consonant* (i.e., non-vowel) in s on a new line in the same order as it appeared in s.

Input Format

Locked stub code in the editor reads string s from stdin and passes it to the function.

Output Format

First, print each *vowel* in s on a new line (in the same order as they appeared in s). Second, print each *consonant* (i.e., non-vowel) in s on a new line (in the same order as they appeared in s).

Sample Input 0

```
javascriptloops
```

Sample Output 0

```
a
a
i
o
o
j
v
s
c
r
p
t
l
p
s
```

Explanation 0

Observe the following:

- Each letter is printed on a new line.

- Then the vowels are printed in the same order as they appeared in s.

- Then the consonants are printed in the same order as they appeared in s.

soluution type no 1

```javascript
function isVowel(c) {
    return "aeiou".indexOf(c) !== -1;
}

function vowelsAndConsonants(s) {
    let v = [];
    let c = [];

    for (let e of s) {
        if (isVowel(e)) {
            // Append each vowel to the vowel array
            v.push(e);
        }
        else {
            // Append each consonant to the consonant array
            c.push(e);
        }
    }

    // Append the array of consonants to the array of vowels
    v.push(...c);

    // Print each vowel in order, followed by each consonant in order
    for (let e of v) {
        console.log(e);
    }
}
```

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solution type 2

```javascript
function vowelsAndConsonants(s) {
    let consonants = "";

    // For each letter in string s:
    for (let letter of s.split('')) {
        if (letter == 'a' ||
            letter == 'e' ||
            letter == 'i' ||
            letter == 'o' ||
            letter == 'u'
          ) {
            console.log(letter);
        }
        else {
            consonants += letter;
        }
    }
```

```
    for (let letter of consonants) {
        console.log(letter);
    }
}

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solution type 3



function vowelsAndConsonants(s)
{
    var vowels = ['a', 'e', 'i', 'o', 'u']
    for (var i = 0; i < s.length; i++)
        {
            if (vowels.indexOf(s[i]) > -1)
              {
                    console.log(s[i]);
              }
        }

    for (var j = 0; j < s.length; j++)
        {
            if (vowels.indexOf(s[j]) < 0)
              {
                    console.log(s[j]);
              }
        }

}
```