Reverse Word/s in a String

Background: The challenge is to reverse the order of word/s in a string resulting in there only being one space between words.

Challenge: LeetCode - 151. Reverse Words in a String

Resources: freeCodeCamp and W3Schools

Notes: The code below is intended to be informational and is not meant to be the only way to write a function reverse the order of the words in a string. In addition to the function below, I employed other functions and methods to set conditions and facilitate user interaction.

```javascript
function reverseWords(str) {
    // convert the string to an array and reverse it
    let arr = str.split(" ").reverse;
    // assign the length of the array to a variable
    let lengthArr = arr.length
    // initialize an empty array to store the reversed words
    let newArr = [];

    // if the array satisfies the challenge constraints
    if(lengthArr <= Math.pow(10, 4) || arr >=1) {
        // loop through the array
        for(let i = lengthArr – 1; i >= 0; i--) {
            // if a word is not blank
            if(arr[i].length > 0 ) {
                // add the word to the new array
                newArr.push(arr[i]);
            }
        }
        // convert the new array to a string
        return newArr.reverse().join(" ");
    }else {
        // the string did not meet the constraints
        return "String invalid"
    }
}

// TESTING THE FUNCTION
console.log(reverseWords('the sky is blue'));  // blue is sky the
console.log(reverseWords(' hello world '));  // world hello
console.log(reverseWords('a good  example')) // example good a
console.log(reverseWords('  Bob    Loves  Alice  '));  // Alice Loves Bob
```

```
console.log(reverseWords('Alice does not even like bob'));  // bob like even not
does Alice
```