

Reverse Word/s in a String

Background: Reverse the order of words in a string with only a single space between them.

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.

```
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
```