Ace your JavaScript Interview. <u>Get my ebook</u>. 100 solved Javascript, 20 solved React, & 2 frontend system design questions (1160+ copies sold). Get a <u>Free preview</u>.

×

Advertisements

- - -

Check if string has duplicate letters

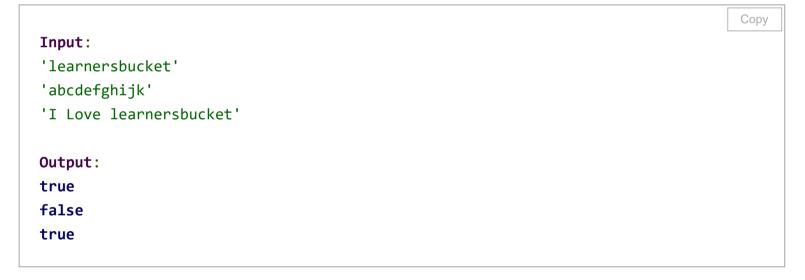
Posted on December 29, 2018 | by Prashant Yadav

Posted in Algorithms, String | Tagged CTCI, Easy

An algorithm to check if there are duplicate letters in the string.

We will check if the given string has duplicate letters and if found we will return true, false otherwise.

Example



Implementation

- We will create a **Set** and add letters of the string to it.
- While storing the letter we will check if <u>Set</u> has duplicate letters. If it is present then return <u>true</u> else return <u>false</u>.
- We will check for both case-sensitive and incase-sensitive letters.
- Everything will be written in ES6.

Practically prepare for your JavaScript interview

JavaScript
Revision
JavaScriptConcept Based
Problems
Data Structures
Algorithms
Machine

Web Fundamentals

Coding

For incase-sensitive letters

```
Сору
let containsDuplicates = (str) => {
  let set = new Set();
  //convert str to lowercase
  //Remove this if you want to check for incase-sensitive strings
  str = str.toLowerCase();
  //If it is not whitespace the check if aplhabet is present or not
  for(let i = 0; i < str.length; i++){</pre>
   if(str[i] != ' '){
    if(set.has(str[i])){
      return true;
    }
     set.add(str[i]);
    }
  }
  return false;
}
```

```
Input:
console.log(containsDuplicates("learnersbucket"));
console.log(containsDuplicates("abcdefghijk"));
console.log(containsDuplicates("I Love learnersbucket"));

Output:
true
false
true
```

For case-sensitive letters

```
let containsDuplicates = (str) => {
  let set = new Set();

  //If it is not whitespace the check if aplhabet is present or not
  for(let i = 0; i < str.length; i++){

   if(str[i] != ' '){

      if(set.has(str[i])){
       return true;
      }

      set.add(str[i]);
    }
  }
  return false;
}</pre>
```

```
Input:
console.log(containsDuplicates("learnersbucket"));
console.log(containsDuplicates("abcdefghijk"));
console.log(containsDuplicates("I Luv life"));

Output:
true
false
false
```

Time Complexity: O(n).

Space Complexity: O(n).

Time and Space complexity

- We are traversing whole string and will be checking each character of it, so Time complexity is O(n).
- We will be storing each character of given string, so Space complexity is O(n).

Prepare for your JavaScript Interview
practically on each Interview rounds and grab
that job.

BEGIN LEARNING

Recommended Posts:

Learn how to reverse a linked list

Difference between square of sum of numbers and sum of square of numbers.

Print all the quadruplets with given | 4 sum algorithm

Count number of sub string recursively

Convert a string to lowercase in javascript

Program to check the prime number

Find the element that appears once in sorted array

Maximum consecutive one's or zero's in a circular array

Implement queue using two stack

Check if two strings are equal with # backspace characters

<u>Prev</u> <u>Next</u>

Leave a F	Reply				
Your email addres	s will not be publi	shed. Require	d fields are mar	ked *	
Comment					
Start typing					

Name*			
Name			
Email*			
Email			
POST COMMENT			

Advertisements

. . .













Handcrafted with ♥somewhere in Mumbai

© 2023 <u>LearnersBucket</u> | <u>Prashant Yadav</u>