

Common String Questions

Reverse a given string ("Hello" becomes "olleH")
--

Reverse the order of words in a string ("Hi There" becomes "There Hi")
--

Is the string a palindrome (identical to itself if it is reversed)?

What is the most common character in the string?
--

Does string A have the same characters as string B (is it an anagram)?
--

Does the given string have any repeated characters in it?

Compact a string. "bbbccaaaad" becomes "b3c2a4d1".
--

String Question Tips

Need to iterate through a string?

Use array methods for iteration (forEach, map). Avoid manual for loops!

Using a 'for...of' loop is OK.

Be aware of new Array(n) for creating empty arrays

Need to reverse a string?

Use String.prototype.split() and Array.prototype.join()

Be aware of Array.prototype.reverse()

Need a uniqueness check or counting characters of any kind?

Record letter counts in an object

Need to compact the string down in any way?

Use Array.prototype.reduce()

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Reverse a string

Count characters

Condense a string

Common String Questions

What is the most common character in the string?
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Does the given string have any repeated characters in it?

"Hello There!"

```
{  
  H: 1,  
  e: 3,  
  l: 2,  
  o: 1,  
  " ": 1,  
  t: 1,  
  h: 1,  
  r: 1,  
  !: 1  
}
```

Turn 'str' into an array

Call 'reverse' method on the array

Join the array back into a string


Return the result

Create an empty string called 'reversed'

for each character in the provided string

Take the character and add it to the
start of 'reversed'

Return the variable 'reversed'



```
return str.split("").reduce((acc, character) => character + acc, "" );
```

The diagram illustrates a loop in the `reduce` function. A horizontal line connects the initial value `""` (highlighted in a green box) to the accumulator `acc` (highlighted in a green box) within the callback function `(acc, character) => character + acc` (highlighted in a blue box). A vertical arrow points from the horizontal line down to the `acc` parameter, indicating that the result of the previous iteration is passed as the accumulator to the next iteration.

0	10	14
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is 'every' value greater than 5?

```
array.every((val) => val > 5);
```

a	b	c	b	a
0				4