Solutions to Quick Checks

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# Quick Check Answers

Quick Check 1

1. 1. Provide code to create a FileReader object named fReader.

let fReader = new FileReader();

**Feedback**: Use the new FileReader() object constructor to create a new FileReader object.

1. Provide code to read the file memo.txt in the fReader object as text.

fReader.readAsText("memo.txt")

**Feedback:** Apply the readAsText() method to a FileReader object to a file as text.

1. What value is returned by the expression "Daily Memo".indexOf(" ")?

5

**Feedback**: Because the blank space is the sixth character in the string, its index is 5.

1. What text string is returned by the expression "Daily Memo".slice(3, 8)?

ly Me

**Feedback**: The slice() method creates substring from the fourth character up to the ninth character of the string.

1. What value is returned by the expression "Daily".localeCompare("Memo") ?

−l

**Feedback**: If test string comes before compare string in lexicographical order, the localeCompare() method returns a value of −1

Quick Check 2

1. Provide a regular expression to match every occurrence of the word "the" regardless of case.

/the/gi;

**Feedback:** Use the g and i flags to do a global search regardless of case.

1. What regular expression symbol matches every character but a whitespace character?

\S

**Feedback:** Use the \s to match a whitespace character; use \S to match everything else.

1. Social security numbers can be entered as either 9 digits in a row or in the form ddd-dd-dddd. Write a regular expression to match either pattern.

/\d{9}|\d{3}-\d{2}-\d{4}/

**Feedback:** Use the \d to match digits, the {*n*} to match *n* repetitions of the that digit and use the | symbol to choose between patterns.

1. Provide code to test whether the value of the userID variable matches a character pattern of 3 digits followed by a dash followed by another 4 digits.

/^/d{3}-/d{4}$/.test(userID)

document.getElementById("reviewRating").setCustomValidity("Value larger than allowed.")

**Feedback:** Use the test() method to determine whether a regular expression applied to a text string finds a match within that string.

1. Provide code to split the text string stored in the orderDate variable at every occurrence of the / character, storing the values in the array dateArray.

let dateArray = orderDate.split(/\//g);

**Feedback:** Use the split() method to split a text string at each delimiter indicates by the regular expression pattern. Use the escape character \/ to match the occurrence of the / character.

Quick Check 3

1. Provide code to sort the username array based on the byOrders() compare function.

username.sort(byOrders);

**Feedback:** Use the command array.sort(*compare*) to sort an array based on values returned by the *compare* function.

1. What will be the contents of the totals array after the following command?  
   let totals = [12, 55, 128, 25, 437]  
   totals.sort();

[12, 128, 25, 437, 55]

**Feedback:** With no compare function, numeric values are sorted in alphabetical order by digit.

1. What will be the contents of the sliced array after the following command?  
   let x = ["a", "b", "c", "d", "e", "f", "g"];  
   let sliced = x.slice(2, 4)

["c","d"]

**Feedback:** The slice() method slices out array items starting with the first index up to (but not including) the last index.

1. What will be the contents of the x array after the following command?  
   let x = ["a", "b", "c", "d", "e", "f", "g"];  
   x.splice(2, 3, "h", "i", "j");

["a","b","h","i","j","f","g"]

**Feedback:** The splice() method replaces array items starting with the specified index through the number of array items with the values provided in a comma-separated list.

1. What will be the contents of the x array after the following command?  
   let x = ["a", "b", "c", "d", "e", "f", "g"];  
   x.pop()

["a","b","c","d","e","f"]

**Feedback:** The pop() method removes the last item from an array.

Quick Check 4

1. Provide a JavaScript expression to return the value of .

Math.sin(45\*Math.PI/180)

**Feedback:** Trig functions are calculated using radians, so you must multiply a degree value by . and divide by 180.

1. Provide two ways of calculating the maximum value of the items from the sales array without sorting or using a for loop.

Math.max.apply[null, sales]  
Math.max(...sales)

**Feedback:** Use the apply() method to apply a Math method to the contents of an array or use the spread operator to spread out the array items as values in a comma-separated list.

1. Provide code to store the current date and time in the trialStart variable.

let trialStart = new Date();

**Feedback:** Applying the new Date object constructor without specifying a date or time value will insert the current date and time into the variable.

1. Provide code to store a date and time in the expireDate variable that is one month after the trialStart variable.

let nextMonth = expireDate.getMonth()+1;  
let expireDate = trialStart.setMonth(nextMonth);

**Feedback:** Use the getMonth() method to retrieve the month value of a date object; use the setMonth() method to set the month value.

1. Provide code to store the text string "Four score and 7 years ago" as a template literal in a variable named preamble, tagging the template literal with the revise() function.

let preamble = revise`Four score and 7 years ago`;

**Feedback:** Use the backtick character (`) to mark off the template literal; preface the template literal with the name of the function to tag it.