98-382^{Q&As}

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Introduction to Programming Using JavaScript

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QUESTION 1

HOTSPOT

You are evaluating a colleague\\'s code to ensure it meets best practices.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

	Yes	No
The characters // are used to mark a single line as a comment.	○	○
totalscore is in the correct format according to standard naming conventions for JavaScript.	○	○
~score can be used as a variable name.	○	○
switch can be used as a variable name.	○	○

Correct Answer:

Answer Area

	Yes	No
The characters // are used to mark a single line as a comment.	●	○
totalscore is in the correct format according to standard naming conventions for JavaScript.	○	●
~score can be used as a variable name.	●	○
switch can be used as a variable name.	○	●

References: https://www.w3schools.com/js/js_conventions.asp
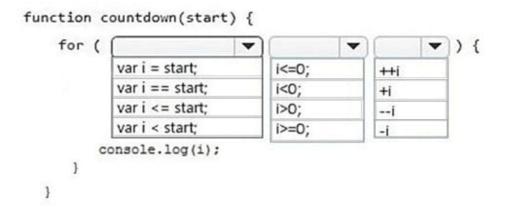
QUESTION 2

HOTSPOT

You are creating a function named countdown. The function accepts a single parameter, start, and displays a countdown from that number down to zero in increments of one.

How should you complete the code? To answer, select the appropriate code segments in the answer area.

Hot Area:

Answer Area

```
function countdown(start) {
    for (                      )  {

        var i = start;        i<=0;        ++i
        var i == start;       i<0;         +i
        var i <= start;       i>0;         --i
        var i < start;        i>=0;        -i

        console.log(i);
    }
}
```

Correct Answer:

Answer Area

```
function countdown(start) {
    for (                      )  {

        var i = start;        i<=0;        ++i
        var i == start;       i<0;         +i
        var i <= start;       i>0;         --i
        var i < start;        i>=0;        -i

        console.log(i);
    }
}
```

References: https://www.w3schools.com/js/js_operators.asp

QUESTION 3

You are writing a JavaScript program for Contoso Suites that will output HTML.

You need to output each room type on a new line using the correct method.

You create the following code for the function. Line numbers are included for reference only.

```
01 <html>
02 <body id="body">
03 <p id="para"><br></p>
04 <script>
05     var line = document.getElementById("para");
06     var rooms = ["Single", "Double", "Triple", "Suite"];
07     var i = 0;
08     for(i=0;i<rooms.length;i++){
09
10     }
11 </script>
12 </body>
13 </html>
```

You need to insert the correct code at Line 9. Which line should you use?

A. document.getElementById("body").innerHTML = rooms[i] + line.innerHTML;

B. document.getElementById("para").innerHTML += rooms[i] + line.innerHTML;

C. document.getElementById("para").innerHTML += i + rooms + line.innerHTML;

D. document.getElementById("body").innerHTML += rooms + i;

Correct Answer: B

QUESTION 4

HOTSPOT

You are creating a function that does safe division.

The function has the following requirements:

The function receives two parameters for the numerator and denominator.

If the denominator is zero, the function must return false.

If the denominator is not zero, the function must return true.

You write the following code. Line numbers are included for reference only.

```
01 function isSafeDivide(numerator, denominator) {
02     if (denominator = 0) {
03         return false;
04     } else {
05         return true;
06     }
07 }
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

	Yes	No
The function will always return false.	○	○
The operator at line 02 should be !=	○	○

Correct Answer:

Answer Area

	Yes	No
The function will always return false.	○	●
The operator at line 02 should be !=	○	●

References: https://www.w3schools.com/js/js_comparisons.asp https://www.w3schools.com/jsref/jsref_if.asp

QUESTION 5

You are writing an engineering application. You need to create a function that will round numbers to 3 or more decimal places.

You need to create a function that receives the following two parameters:

The value parameter is the number to be formatted

The digits parameter is the number of digits to display

The function must return the value with the number of digits specified.

Which function should you use?

```
A.  function significance(value, digits) {
        return value.toPrecision(digits);
    }

B.  function significance(value, digits) {
        return value.toString(digits);
    }

C.  function significance(value, digits) {
        return value.toFixed(digits);
    }

D.  function significance(value, digits) {
        return value.valueOf(digits);
    }
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

References: https://www.w3schools.com/jsref/jsref_tofixed.asp

QUESTION 6

DRAG DROP

You are creating a web page that requests a username.

You create the following HTML form:

```
<form id="credentials" action="#" method="get">
    <p>Username: <input type="text" id="username" /></p>
    <input type="button" onclick=" getUsername()" value="Submit">
</form>
```

You need to write a function that retrieves the username from the form.

How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each function may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view

content.

NOTE: Each correct selection is worth one point.

Select and Place:

Code Segments

document	firstChild	forms	HTMLDocument
innerHTML	value	window	

Answer Area

```
function getUsername() {
    var username =  [          ] . [          ] .credentials.username. [          ] ;
    alert('Welcome, ' + username);
}
```

Correct Answer:

Code Segments

	firstChild		HTMLDocument
	value	window	

Answer Area

```
function getUsername() {
    var username =  [ document ] . [ forms ] .credentials.username. [ innerHTML ] ;
    alert('Welcome, ' + username);
}
```

References: https://www.w3schools.com/jsref/coll_doc_forms.asp

QUESTION 7

DRAG DROP

You are developing a web page that uses JavaScript. The script needs to display information to the user using a popup box.

Match each function that displays a popup box with its appropriate scenario.

To answer, drag the appropriate function from the column on the left to its appropriate scenario on the right. Each function may be used once, more than once, or not at all.

NOTE: Each correct selection is worth one point.

Select and Place:

Function		Answer Area
alert	confirm	
prompt		

Display a dialog box that allows the user to enter a street address.

Display an error message using a function that does not return a value.

Display a dialog box and return a value indicating which button the user clicked.

Correct Answer:

Function		Answer Area

prompt	Display a dialog box that allows the user to enter a street address.
alert	Display an error message using a function that does not return a value.
confirm	Display a dialog box and return a value indicating which button the user clicked.

References: https://www.w3schools.com/js/js_popup.asp

QUESTION 8

HOTSPOT

You are writing a JavaScript program for Blue Yonder Airlines. The program stores various information about the airline\\'s flights.

The program has initialized the following variables:

```
01 var flightDestination = "Denver";
02 var flight = 5;
03 var roundTrip = 2489.58;
04 var onTime = true;
05 var id = flight + flightDestination;
```

You need to determine the data type of the code segment based on initialization and the assignment of the variables. Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code segment.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

What is the data type for line 01?

	▼
Number	
String	
Boolean	
Null	
Undefined	

What is the data type for line 03?

	▼
Number	
String	
Boolean	
Null	
Undefined	

What is the data type for line 04?

	▼
Number	
String	
Boolean	
Null	
Undefined	

What is the data type for line 05?

	▼
Number	
String	
Boolean	
Null	
Undefined	

Correct Answer:

Answer Area

What is the data type for line 01?

Number
String
Boolean
Null
Undefined

What is the data type for line 03?

Number
String
Boolean
Null
Undefined

What is the data type for line 04?

Number
String
Boolean
Null
Undefined

What is the data type for line 05?

Number
String
Boolean
Null
Undefined

References: https://www.w3schools.com/js/js_datatypes.asp

QUESTION 9

HOTSPOT

Variable x has a value of 5. Variable y has a value of 7.

For each of the following expressions, select True if the statement evaluates to true. Otherwise, select False.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

	True	False
x < 7 && y > 6	○	○
x == 6 || y == 6	○	○
x !== 7	○	○
!(x == y)	○	○

Correct Answer:

Answer Area

	True	False
x < 7 && y > 6	●	○
x == 6 || y == 6	○	●
x !== 7	●	○
!(x == y)	●	○

References: https://www.w3schools.com/js/js_comparisons.asp

QUESTION 10

HOTSPOT

You are using JavaScript to write a safe root math utility that has the following requirements:

Given the function safeRoot(a, b):

If the radicand (a) is non-negative, return Math.pow (a, 1/b);

Otherwise,

If the index (b) is divisible by 2, then return text indicating the result is imaginary.
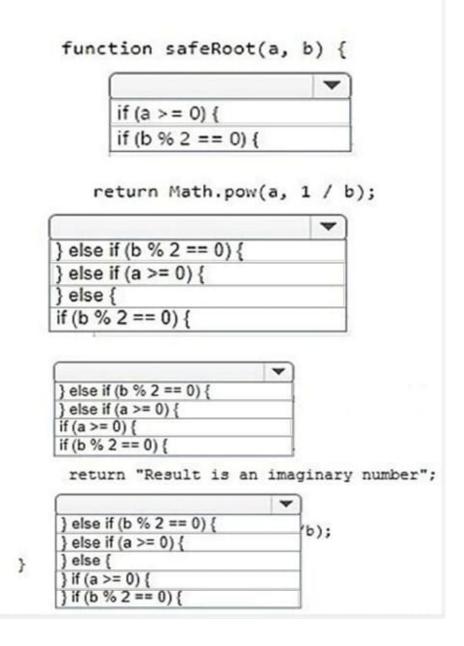
Otherwise return -Math.pow (-a, 1/b)

How should you complete the code? To answer, select the appropriate code segments in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
function safeRoot(a, b) {
```

▼
if (a >= 0) {
if (b % 2 == 0) {

```
    return Math.pow(a, 1 / b);
```

▼
} else if (b % 2 == 0) {
} else if (a >= 0) {
} else {
if (b % 2 == 0) {

▼
} else if (b % 2 == 0) {
} else if (a >= 0) {
if (a >= 0) {
if (b % 2 == 0) {

```
    return "Result is an imaginary number";
```

▼	
} else if (b % 2 == 0) {	b);
} else if (a >= 0) {	
} else {	
} if (a >= 0) {	
} if (b % 2 == 0) {	

```
    }
  }
}
```

Correct Answer:

Answer Area

```
function safeRoot(a, b) {
```

▼
if (a >= 0) {
if (b % 2 == 0) {

```
    return Math.pow(a, 1 / b);
```

▼
} else if (b % 2 == 0) {
} else if (a >= 0) {
} else {
if (b % 2 == 0) {

▼
} else if (b % 2 == 0) {
} else if (a >= 0) {
if (a >= 0) {
if (b % 2 == 0) {

```
    return "Result is an imaginary number";
```

▼	
} else if (b % 2 == 0) {	'b);
} else if (a >= 0) {	
} else {	
} if (a >= 0) {	
} if (b % 2 == 0) {	

```
    }
  }
}
```

References: https://www.w3schools.com/js/js_if_else.asp