

## Question 25

### DRAG DROP -

You need to write a loop that will traverse the length of an array to find the value orange. If an array element value is null, the code should immediately go to the next element. When the value is found, the loop should exit.

How should you complete the code? To answer, drag appropriate keywords to the correct locations. Each keyword 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.

Select and Place:

#### Keywords

#### Answer Area

```
<!DOCTYPE html>
<html>
<head>
<script>
    function doWork() {
        var list = ['apple', 'pear', null
        [ ] (i = 0; i < list.length; i++) {
            if(list[i] == null)
                [ ]
            if(list[i] == 'orange') {
                alert('found');
                [ ]
            }
        }
        console.log(list[i]);
    }
}
</script>
</head>
<body>
    <input type="button" value="test" onclick="doWork()" />
</body>
</html>
```

## Question 26.

### DRAG DROP -

Your instructor has asked you to implement code that would display a two-dimensional array of any size inside a <div> tag.

You write the following code:

```
var div = document.getElementById('board');  
var board = [['-', 'X', '-', 'X'], ['-', 'O', 'X', 'O'], ['X', 'O', '-', 'O']];
```

You need to complete the code.

Which three segments should you use to develop the solution? To answer, move the appropriate code segments from the list of code segments to the answer area and arrange them in the correct order.

Select and Place:

#### Code Segments

```
for(var k = 0; k < board[0].length; k++)  
    div.innerHTML = div.innerHTML + board[i][j] + ' ';
```

```
for(i < board.length; i = i + 1){
```

```
for (var j = 0; j < board[0].length; j = j + 1)  
    div.innerHTML = div.innerHTML + board[i][j] + ' ';
```

```
for (var i = 0; i < board.length; i++) {
```

```
    div.innerHTML = div.innerHTML + '<br>';  
}
```

```
for(var j = i; j < board[0].length; j++)  
    div.innerHTML = div.innerHTML + board[i][j] + ' ';
```

#### Answer Area



## Question 27

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

  
    }  
}
```

## Question 28

### 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;  | <input type="text"/> | <input type="text"/> |
| var i == start; | i<=0;                | ++i                  |
| var i <= start; | i<0;                 | +i                   |
| var i < start;  | i>0;                 | --i                  |
|                 | i>=0;                | -i                   |

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

## Question 29

### HOTSPOT -

You are creating a calendar application. You need to ensure that the code works correctly for all months of the year. How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

## Answer Area

```
var daysInMonth;  
var month;  
month = new Date().getMonth();  


|                      |
|----------------------|
| <input type="text"/> |
| switch (month) {     |
| case (month) {       |
| break {              |

  
case 1:  
  daysInMonth = 28; // for February, ignore leap years  
  
case 3:  


|                      |
|----------------------|
| <input type="text"/> |
| break;               |
| continue;            |
| while (month);       |

  
case 5:  
case 8:  
case 10:  
  daysInMonth = 30;  


|                      |
|----------------------|
| <input type="text"/> |
| break;               |
| continue;            |
| while (month);       |


```

### Question 30

#### 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. | <input type="radio"/> | <input type="radio"/> |
| The operator at line 02 should be !=   | <input type="radio"/> | <input type="radio"/> |

### Question 31

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                 |
|-------------------------------------------|-----------------------|-----------------------|
| <code>x &lt; 7 &amp;&amp; y &gt; 6</code> | <input type="radio"/> | <input type="radio"/> |
| <code>x == 6    y == 6</code>             | <input type="radio"/> | <input type="radio"/> |
| <code>x !== 7</code>                      | <input type="radio"/> | <input type="radio"/> |
| <code>!(x == y)</code>                    | <input type="radio"/> | <input type="radio"/> |

### Question 32

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

alert

confirm

prompt

Display a popup box with the specified message with the OK button.

Display a popup box with the specified message with OK and Cancel buttons.

Display a popup box to take the user's input with the OK and Cancel buttons.

## Question 33

This question requires that you evaluate the underlined text to determine if it is correct. You review the following JavaScript code:

```
var x = 15;  
x %= 5;
```

When this code executes, the value of x is 0.

Review the underlined text. If it makes the statement correct, select "No change is needed". If the statement is incorrect, select the answer choice that makes the statement correct.

- A. No change is needed
- B. the value of x is 3
- C. the value of x is 5
- D. the value of x is undefined

## Question 34

You are creating a JavaScript program for an accounting system.

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

```
01 var firstName = "Jo";  
02 var lastName = "Berry";  
03 var while = Date.now();  
04 var color = "Red";  
05 var break = "No";
```

You evaluate the code to ensure that it follows JavaScript best practices. Which line should you change?

- A. 01
- B. 02
- C. 03

- D. 04
- E. 05

## Question 35

You are writing a function that calculates the remainder for integer division. The function receives two parameters, a and b, and must return the remainder that is left over when the integer a is divided by the integer b.

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

```
01 function remainder(a, b) {
02
03
04 }
```

You want to complete the function for lines 02 and 03.

Which two sets of code segments should you use? Each correct answer presents a complete solution. (Choose two.)

A.

```
02 a = a / b - a;
03 return a;
```

B.

```
02 b = b % a;
03 return b;
```

C.

```
02 b %= a;
03 return b;
```

D.

```
02 a %= b;
03 return a;
```

E.

```
02 a = a % b;
03 return a;
```

F.

```
02 b = b / a - b;
03 return b;
```

## Question 36

HOTSPOT -

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

External JavaScript files can be cached.

True

False

Internal JavaScript can be placed between the `<head>` tags.

True

False

Placing your scripts at the bottom of the page body lets the browser load the other elements of the page first.

True

False

Internal JavaScript uses the tag `<script src="internal" type="text/javascript">`.

True

False