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Introduction to Programming Using JavaScript

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QUESTION 1

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.

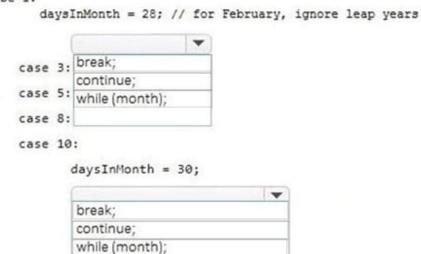NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
var daysInMonth;

var month;

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

▼
switch (month) {
case (month) {
break {

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

	▼
case 3:	break;
	continue;
case 5:	while (month);
case 8:	
case 10:	

```
        daysInMonth = 30;
```

	▼
break;	
continue;	
while (month);	

Correct Answer:

Answer Area

```
var daysInMonth;

var month;

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

switch (month) {
case (month) {
break {

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

break;
continue;
while (month);

case 3:
case 5:
case 8:
case 10:

```
            daysInMonth = 30;
```

break;
continue;
while (month);

References: https://www.w3schools.com/js/js_break.asp https://www.w3schools.com/jsref/jsref_switch.asp

QUESTION 2

DRAG DROP

Evaluate the following code. Line numbers are included for reference only.

```
01 var n = 50;
02 var c = n + 5;
03 var a = n % 2;
04 var d = c / 11;
05 n = d * 2;
07 console.log(n, c, a, d);
```
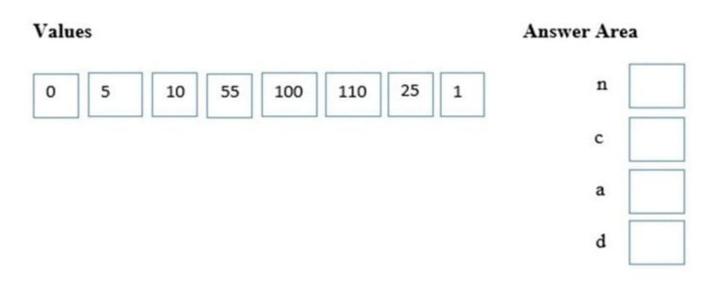
What is the value of each variable at line 07? To answer, drag the appropriate value to the correct variable. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

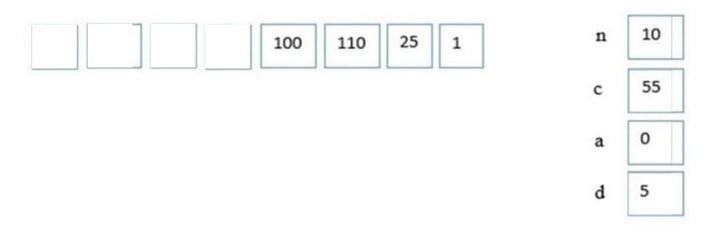NOTE: Each correct selection is worth one point.

Select and Place:

Values

0	5	10	55	100	110	25	1

Answer Area

n [ ]

c [ ]

a [ ]

d [ ]

Correct Answer:

Values

				100	110	25	1

Answer Area

n   10

c   55

a   0

d   5

References: https://www.w3schools.com/js/js_arithmetic.asp
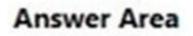
QUESTION 3

HOTSPOT

You are planning to use the Math object in a JavaScript application. You write the following code to evaluate various Math functions:
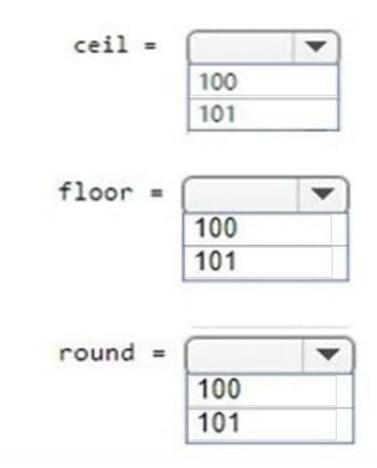
```
var ceil = Math.ceil(100.5);
var floor = Math.floor(100.5);
var round = Math.round(100.5);
```

What are the final values for the three variables? To answer, select the appropriate values in the answer area. NOTE: Each correct selection is worth one point.
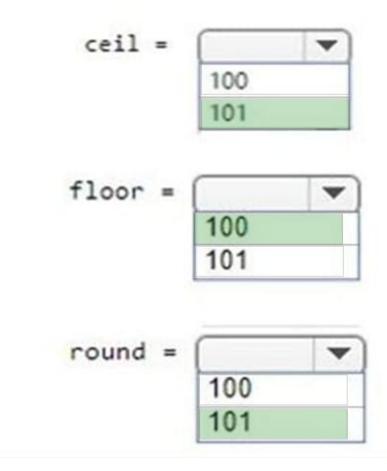
Hot Area:

Answer Area

ceil =

100
101

floor =

100
101

round =

100
101

Correct Answer:

Answer Area

ceil =

| 100 |
| 101 |

floor =

| 100 |
| 101 |

round =

| 100 |
| 101 |

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

QUESTION 4

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

for	break	continue	while
do			

Answer Area

```
<!DOCTYPE html>
<html>
<head>
<script>
    function doWork() {
        var list = ['apple', 'pear', null, 'orange', 'banana'];
        [_____]  (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>
```

Correct Answer:

Keywords

			while
do			

Answer Area

```
<!DOCTYPE html>
<html>
<head>
<script>
    function doWork() {
        var list = ['apple', 'pear', null, 'orange', 'banana'];
        for  (i = 0; i < list.length; i++) {
            if(list[i] == null)
                continue
            if(list[i] == 'orange') {
                alert('found');

            break
        }
        console.log(list[i]);
    }
}
</script>
</head>
<body>
    <input type="button" value="test" onclick="doWork()" />
</body>
</html>
```

References: https://www.w3schools.com/js/js_arrays.asp https://www.w3schools.com/js/js_break.asp

QUESTION 5

DRAG DROP You are creating a web page with a script. The script will insert the window\\'s location inside the page\\'s input element. How should you complete the code? To answer, drag the appropriate code segment to the correct locations. Each code segment 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:

Correct Answer:

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

QUESTION 6

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.
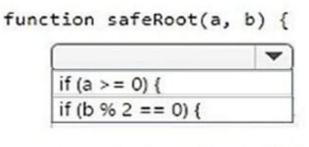
Otherwise return -Math.pow (-a, 1/b)

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";
```

▼	'b);
} else if (b % 2 == 0) {	
} 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

QUESTION 7

You are designing a web page with a script that must dynamically change the content of a paragraph element to display the value returned by the function randomQuote(). You have created the following code. Line numbers are included for reference only.

```
01 <!DOCTYPE html>
02 <html>
03 <body>
04 <p id="tester" onclick="changeText()">Click to change the content.</p>
05 <input type="button" value="Change Text" onclick="changeText()" />
06 <script>
07 function changeText() {
08
09 }
10 </script>
11 </body>
12 </html>
```

Which code segment should you use at line 08?

A. document.getElementById("tester").value = randomQuote();

B. document.getElementById("tester").title = randomQuote();

C. document.getElementById("tester").innerHTML = randomQuote();

D. document.getElementById("tester").script = randomQuote();

Correct Answer: C

References: https://www.w3schools.com/html/html_scripts.asp

QUESTION 8

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

	Yes	No
External JavaScript files can be cached.	○	○
Internal JavaScript can be placed between the <head> tags.	○	○
Placing your scripts at the bottom of the page body lets the browser load the other elements of the page first.	○	○
Internal JavaScript uses the tag <script src="internal" type="text/javascript">.	○	○

Correct Answer:

Answer Area

	Yes	No
External JavaScript files can be cached.	●	○
Internal JavaScript can be placed between the `<head>` tags.	●	○
Placing your scripts at the bottom of the page body lets the browser load the other elements of the page first.	●	○
Internal JavaScript uses the tag `<script src="internal" type="text/javascript">`.	○	●

References: http://knowledgehills.com/javascript/external-javascript-syntax-disadvantages.htm
https://www.w3schools.com/js/js_whereto.asp https://www.w3schools.com/tags/att_script_src.asp

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QUESTION 9

DRAG DROP

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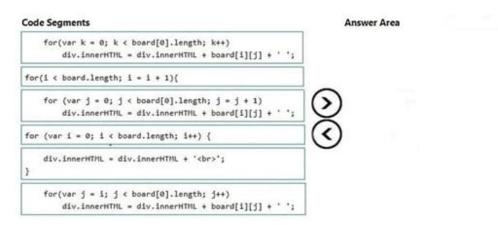 tag.

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   **Answer Area**

```
    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] + ' ';
```

> <

Correct Answer:

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] + ' ';
```

Answer Area

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

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

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

}
```

References: http://www.plus2net.com/javascript_tutorial/array-two-dimension.php

QUESTION 10

HOTSPOT

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

```
01 "use strict";
02 var val1 = 25;
03 var val2 = 4;
04 function multiply() {
05     return val1 * val2;
06 }
07
08 console.log("Global multiply returns() : " + multiply());
09 multiply();
10
11 function getProduct() {
12     var val1 = 2;
13     var val2 = 3;
14
15     function multiply() {
16         return val1 * val2;
17     }
18
19     return multiply();
20 }
```

Hot Area:

Answer Area

	Yes	No
The call to the multiply function on line 09 returns 100.	○	○
The call to the multiply function on line 19 returns 100.	○	○

Correct Answer:

Answer Area

	Yes	No
The call to the `multiply` function on line 09 returns 100.	●	○
The call to the `multiply` function on line 19 returns 100.	○	●

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