98-382^Q&As

Introduction to Programming Using JavaScript

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QUESTION 1

DRAG DROP

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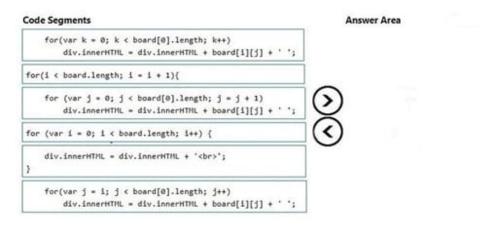 tag.

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

```
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

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
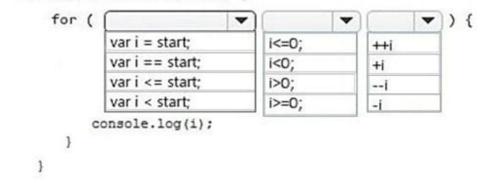
QUESTION 2

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.
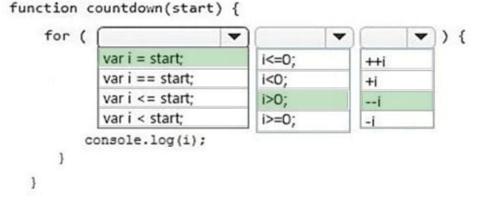
Hot Area:

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
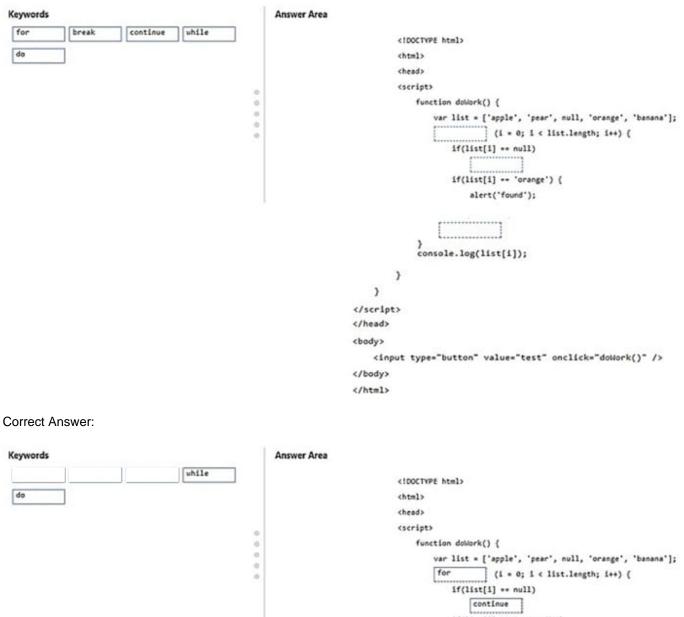
QUESTION 3

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 4

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";
```

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

```
}
    }
}
```

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

QUESTION 5

HOTSPOT

You are creating a JavaScript function that returns a date the specified number of months in the future of the current date.

The function must meet the following requirements:

Accept a number that represents the number of months to add or subtract from the current date.

Return the current data adjusted by the number of months passed into the function.

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 adjustMonth(value) {
```

▼
var date = new Date();
var date = Date();
var date = new Date;
var date = Date;

▼
var month = date.getMonth;
var month = getMonth();
var month = date.getMonth();
var month = getMonth;

▼
date.setMonth(month + value);
setMonth(month + value);

```
    return date ;
}
```

Correct Answer:

Answer Area

```
function adjustMonth(value) {
```

▼
var date = new Date();
var date = Date();
var date = new Date;
var date = Date;

▼
var month = date.getMonth;
var month = getMonth();
var month = date.getMonth();
var month = getMonth;

▼
date.setMonth(month + value);
setMonth(month + value);

```
    return date ;
}
```

References: https://www.w3schools.com/js/js_dates.asp https://www.w3schools.com/js/js_date_methods.asp
https://www.w3schools.com/jsref/jsref_setmonth.asp

QUESTION 6

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 7

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 two lines should you change?

A. 01

B. 02

C. 03

D. 04

E. 05

Correct Answer: CE

QUESTION 8

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:

Code Segments

| window |
| location |
| document |
| getElementById |

Answer Area

```
<!DOCTYPE html>
<html>
<body>
    <input id="url" type="input" />
    <script>
        [_____] . [_____] ("url").value = [_____] . [_____] .href;
    </script>
</body>
</html>
```

Correct Answer:

Code Segments

Answer Area

```
<!DOCTYPE html>
<html>
<body>
    <input id="url" type="input" />
    <script>
        document . getElementById ("url").value = window . location .href;
    </script>
</body>
</html>
```

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

QUESTION 9

HOTSPOT

The ABC company offers a mid-week discount of 10% on Wednesdays.

You need to write a JavaScript function that meets the following requirements:

Accepts the day of the week as a string

Returns the appropriate discount

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

```
01 function getDiscount(day) {
02     var discount = 0;
03
04
05         discount = .1;
06         break;
07
08         discount = 0;
09         break;
10     }
11     return discount;
12 }
```

You must complete the code at lines 03, 04, and 07.

How should you complete the code? To answer, select the appropriate code segments in the answer area.
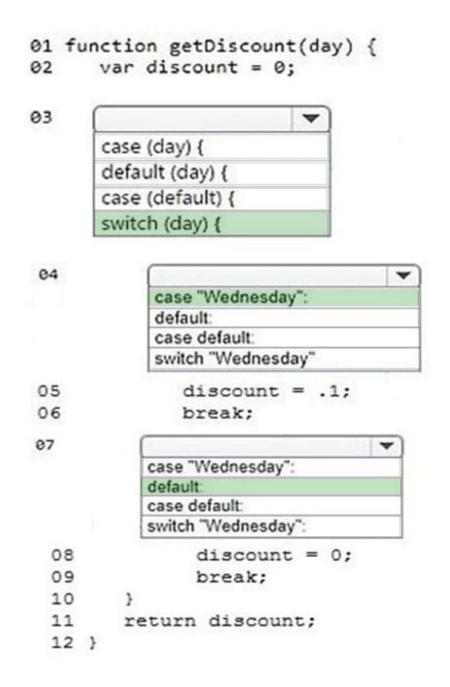
NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
01 function getDiscount(day) {
02      var discount = 0;
```

03 ┌─────────────────────────────┬──▼──┐
```
case (day) {
default (day) {
case (default) {
switch (day) {
```

04 ┌─────────────────────────────────┬──▼──┐
```
case "Wednesday":
default:
case default:
switch "Wednesday"
```
```
05          discount = .1;
06          break;
```

07 ┌─────────────────────────────────────┬──▼──┐
```
case "Wednesday":
default:
case default:
switch "Wednesday":
```
```
08          discount = 0;
09          break;
10      }
11      return discount;
12 }
```

Correct Answer:

Answer Area

```
01 function getDiscount(day) {
02     var discount = 0;
```

03 [▼]
```
case (day) {
default (day) {
case (default) {
switch (day) {
```

04 [▼]
```
case "Wednesday":
default:
case default:
switch "Wednesday"
```

```
05         discount = .1;
06         break;
```

07 [▼]
```
case "Wednesday":
default:
case default:
switch "Wednesday":
```

```
08         discount = 0;
09         break;
10     }
11     return discount;
12 }
```

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

QUESTION 10

HOTSPOT

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

	Yes	No
When using a GET request with a form, the data length is restricted.	○	○
Only GET requests should be used when handling sensitive form data.	○	○
Form POST requests are cached.	○	○
Form POST requests will always remain in the browser history.	○	○

Correct Answer:

Answer Area

	Yes	No
When using a GET request with a form, the data length is restricted.	●	○
Only GET requests should be used when handling sensitive form data.	○	●
Form POST requests are cached.	○	●
Form POST requests will always remain in the browser history.	○	●

References: https://www.w3schools.com/tags/ref_httpmethods.asp

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