Exam Questions 98-382
Introduction to Programming Using JavaScript
1. 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.

**Keywords**
- for
- break
- continue
- while
- do

**Answer Area**

```javascript
function doWork() {
    var list = ['apple', 'pear', null, 'orange', 'banana'];
    for (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>
```

**Answer:**

**Explanation:**

Box 1: for
Box 2: continue
Box 3: break

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

2. HOTSPOT

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

**Answer:**

```
function getFutureDate(months) {
    var now = new Date();
    now.setMonth(now.getMonth() + months);
    return now;
}
```

**Explanation:**

This function takes a number of months as an argument and returns a date that is that many months in the future from the current date. It uses the `setMonth()` method to set the month of the date to the current month plus the specified number of months. The `getMonth()` method is then used to return the resulting date.


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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.

**Answer:**

```javascript
function adjustMonth(value) {
  var date = new Date();
  var month = date.getMonth();
  date.setMonth(month + value);
  return date;
}
```

**Explanation:**

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

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3. HOTSPOT

You are designing a function that allows you to perform unit tests on other functions in a library. You will invoke each library function by using the eval JavaScript function. If an exception occurs when invoking a function, you want to display a message box with the following message:

The function does not exist.

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

NOTE: Each correct selection is worth one point.

Answer Area

```javascript
function unitTest(expression) {
    try {
        eval(expression);
    } catch (err) {
        alert("The function does not exist.");
    }
}
```

Answer:

```javascript
function unitTest(expression) {
    try {
        eval(expression);
    } catch (err) {
        alert("The function does not exist.");
    }
}
```

Explanation:

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

4. DRAG DROP

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

Answer: 

```
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);
```

Explanation:

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

5. You are creating a web page that allows customers to choose how hot their spice is. If they choose spicy, a warning should be displayed.

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

```
01 <form name = "orderForm" action = "#" method = "post">
02   <select name = "heatIndex" required>
03     <option>Mild</option>
04     <option>Medium</option>
05     <option>Spicy</option>
06   </select>
07   <button onclick = "checkWarning()">Order</button>
08 </form>
```
When you choose spicy and click Order, the warning fails to display. You need to solve this problem.

What should you do?

A. Change line 07 to `<button onchange = "checkWarning()"></button>Order</button>`
B. Change line 07 to `<button onclick = "checkWarning;">Order</button>`
C. Change line 10 to `var option.value = document.forms.orderForm["heatIndex"];`
D. Change line 10 to `var option = document.forms.orderForm["heatIndex"].value;`

Answer: D

Explanation:

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