

Programming Concepts

Week 6 **Credit** Submission Tasks Template

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Credit Task 15 HTML code

Paste the HTML code of the web page here.

```
1  <!DOCTYPE html>
2  <meta name="description" content="Arrays">
3  <meta name="keywords" content="javascript, arrays, html, web">
4  <meta name="author" content="Mario Stavreski ID: 103055993">
5  <title>Credit Task: Arrays 2</title>
6  <script src="w6c1.js"></script>
7
8  </head>
9  <body>
10 <header>
11   <h1>Credit Task: Arrays</h1>
12 </header>
13 <article>
14   <div id="content">
15     <label> Enter number to search for: <input type="text" id="value"/></label>
16     <button type="button" id="search">Search</button><br>
17     <p id="arr"></p>
18     <p id="result"></p>
19     <p id="errorMsg"></p>
20   </div>
21 </article>
22 <footer><p>Produced by Mario Stavreski</p></footer>
23
24 </body></html>
25
```

Credit Task 15 JavaScript code

Paste the JavaScript code of the same page here.

```

1  /* Filename: w6c1.js
2     Target html: w6c1.html
3     Purpose : This file locates whether a value exists within an array
4     Author: Mario Stavreski
5     Date written: 26/04/2020
6     Revisions: v1.0
7  */
8
9
10 function init() {
11     document.getElementById("search").onclick = start;
12 }
13 function start(){ // This function locates whether a value exists within an array
14     var arr=[12,14,17,20,24,27,34,56,43,87,12,43,12];
15     var vIndex = 0;
16     var vSearch = document.getElementById("value").value;
17     vFound = false;
18     document.getElementById("result").innerHTML = vSearch + " does not exist within the array";
19     while (vIndex < arr.length && !vFound) { //check if the value exists in the array
20         if (arr[vIndex] == vSearch) {
21             vFound = true;
22             document.getElementById("result").innerHTML = vSearch + " exists within the array";
23         }
24         vIndex++;
25     }
26     var vNumbers = "";
27     vNumbers = "The numbers in the array are: "
28     for (vIndex = 0; vIndex < arr.length; vIndex++) { //lists number within array
29         vNumbers = vNumbers + arr[vIndex] + ", ";
30         document.getElementById("arr").innerHTML = vNumbers;
31     }
32 }
33 window.onload = init;
34

```

Credit Task 15 web page testing (at least 4 tests as per the handout)

Paste the screen captures of your testing web page here.

Credit Task: Arrays

Enter number to search for:

The numbers in the array are: 12, 14, 17, 20, 24, 27, 34, 56, 43, 87, 12, 43, 12,

12 exists within the array

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Credit Task: Arrays

Enter number to search for:

The numbers in the array are: 12, 14, 17, 20, 24, 27, 34, 56, 43, 87, 12, 43, 12,

43 exists within the array

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Credit Task: Arrays

Enter number to search for:

The numbers in the array are: 12, 14, 17, 20, 24, 27, 34, 56, 43, 87, 12, 43, 12,

69 does not exist within the array

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Credit Task: Arrays

Enter number to search for:

The numbers in the array are: 12, 14, 17, 20, 24, 27, 34, 56, 43, 87, 12, 43, 12,

99 does not exist within the array

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Credit Task 16 HTML code

Paste the HTML code of the web page here.

```
1  <!DOCTYPE html>
2  <meta name="description" content="Arrays">
3  <meta name="keywords" content="javascript, arrays, html, web">
4  <meta name="author" content="Mario Stavreski ID: 103055993">
5  <title>Credit Task: Arrays</title>
6  <script src="w6c.js"></script>
7  </head>
8  <body>
9  <header>
10   <h1>Credit Task: Arrays</h1>
11 </header>
12 <article>
13   <div id="content">
14     <label for="lowValue">Enter Low Value</label><br>
15     <input type="text" name="lowValue" id="lowValue"><br><br><br>
16     <label for="highValue">Enter High Value</label><br>
17     <input type="text" name="highValue" id="highValue">
18     <button type="button" id="search">Search</button><br>
19     <p id="msg1"></p>
20     <p id="result"></p>
21     <p id="errorHigh"></p>
22
23   </div>
24 </article>
25 <footer><p> &copy;Produced by Mario Stavreski ID: 103055993</p></footer>
26
27 </body></html>
28
```

Credit Task 16 JavaScript code

Paste the JavaScript code of the same page here.

```

1  /* Filename: w6c1.js
2     Target html: w6c1.html
3     Purpose : This file finds which value belong to the arrays between 2 values
4     Author: Mario Stavreski
5     Date written: 26/04/2020
6     Revisions: v1.0
7  */
8
9  // this function check how many values from an array belong to a certain range
10 function start(){
11     var arr=[12,14,17,20,24,27,34,56,43,87];
12     var vIndex = 0;
13     var highNumber = document.getElementById("highValue").value;
14     var validHigh = validateHigh(highNumber);
15     var lowNumber = document.getElementById("lowValue").value;
16     var validLow = validateLow(lowNumber, highNumber);
17     var vList = "";
18     vList = "The numbers in the array are: ";
19     for (vIndex = 0; vIndex < arr.length; vIndex++) { // Lists all values within array
20         vList = vList + arr[vIndex] + ", "
21         document.getElementById("msg1").innerHTML = vList;
22     }
23     if (validLow == true && validHigh == true) { // finds the number of values within the specified range
24         var vRange = 0;
25         for (vIndex = 0; vIndex < arr.length; vIndex++) {
26             if (arr[vIndex] > lowNumber && arr[vIndex] < highNumber) {
27                 vRange = vRange + 1;
28             }
29         }
30         document.getElementById("result").innerHTML = "The numbers between the selected range are: " + vRange;
31     } else {
32         if (validLow == false) { //prints error statement if low value is invalid
33             var lowError = document.getElementById("msg1");
34             lowError.innerHTML = "Invalid Low number. Must be lower than high number and a numeric value";
35         }
36         if (validHigh == false) { //prints error statement if high value is invalid
37             var highError = document.getElementById("errorHigh");
38             highError.innerHTML = "Invalid high number. Must be higher than low number and a numeric value";
39         }
40     }
41 }

```

```
42
43 function validateHigh(high) { //validates high values
44     var valid = true;
45     if (isNaN(high))
46         valid = false;
47     return valid;
48 }
49
50 function validateLow(low, high) { //validates low value
51     var valid = true;
52     if (low >= high || isNaN(low))
53         valid = false;
54     return valid;
55 }
56
57 function init() {
58     document.getElementById("search").onclick = start;
59 }
60
61 window.onload = init;
62
```

Credit Task 16 web page testing

Paste the screen captures of your testing web page here.

Credit Task: Arrays

Enter Low Value

Enter High Value

The numbers in the array are: 12, 14, 17, 20, 24, 27, 34, 56, 43, 87,

The numbers between the selected range are: 1

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Credit Task: Arrays

Enter Low Value

Enter High Value

The numbers in the array are: 12, 14, 17, 20, 24, 27, 34, 56, 43, 87,

The numbers between the selected range are: 0

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Credit Task: Arrays

Enter Low Value

Enter High Value

The numbers in the array are: 12, 14, 17, 20, 24, 27, 34, 56, 43, 87,

The numbers between the selected range are: 5

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Credit Task: Arrays

Enter Low Value

Enter High Value

Invalid Low number. Must be lower than high number and a numeric value

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Credit Task: Arrays

Enter Low Value

Enter High Value

The numbers in the array are: 12, 14, 17, 20, 24, 27, 34, 56, 43, 87,

Invalid high number. Must be higher than low number and a numeric value

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