

CP1295 Test 02 5% Scope Document V2

JavaScript

K205

Wednesday July 03, 2024

10:30 am – 12:30 pm

Time slot

Test Time: 90 Minutes

V2 UPDATE INCLUDES REDACTED RUBRIC

1. Collect and generate statistics display **similar** to a players performance history in sports.

**Note: test may or may not use a sports-based case model.**

2. Fill in a data sheet for each day of play.

- Include Text Box(s) for important data
- Radio Button for qualification of data
- calculated Text Box Display for calculated values provided for the day

3. Form will start on Day 1 and accept data (1 day at a time)

4. On Last Day of input the results are displayed in a list format using `<ul>` and `<li>`

5. Most Calculations are addition.

6. Use of array to store daily input is required. Know how to read array backwards.

7. One calculation will require multiplication with results rounded to 2 decimal places.

8. End Results are displayed using `<ul>` and `<li>` based on array use in reverse order.

9. No Buttons are used.

10. No Forms are used. One of the text input fields used used as a button equivalent.

11. 2 input text boxes are used. 1 for data entry and the other to accept a "y" for processing.

12. 2 radio buttons are used. The are used to qualify the input for processing.

13. All input/display sections are contained within several `<div>` blocks that have identifiers. This will enable the hiding and showing of various sections as required. A complete map of the HTML page is provided on test.

jQuery can be used but must follow all restrictions. Solution key used jQuery. It will reduce time to generate solution.

Expect the following restrictions to be listed for the test.

All new elements such as `<ul><li>` must be created using `document.createElement`.

jQuery cannot be used to create elements. It can be used to add elements.

Evaluation of this test is based on creation and control of elements using practices illustrated in the notes and textbooks in accordance with the course outline.

Sources on test is based on code examples from the following:

(1) Assignment 03

(2) Membership Form p 319-323

- (3) Register Application p 211-213 (focus was on parent and add child or equivalent in jQuery)
- (4) Lecture notes 01 to 07.
- (5) Textbook up to Chapter 10

Exclusions for purposes of test design. (not violations)

- (1) Node Theory (Use parent, sibling, and child element approach)
- (2) Timers
- (3) Custom objects
- (4) No graphics

#### Test Delivery

HTML, CSS, JavaScript starting code is provided.

You cannot modify HTML or CSS in any manner except for the following deletion option.

HTML has jQuery added.

\*\*\* Deletion Option \*\*\*

You may elect to delete jQuery src, if you wish from the HTML. This will allow you to use JavaScript without access to jQuery. You cannot substitute the jQuery script 3.4.1 access for any other another version of sub-version.

```
<script src="https://code.jquery.com/jquery-3.4.1.slim.min.js"></script>
```

From the Solution the following redacted screen shots.

The grey boxes are read-only and are updated as each day's input is provided.

Enter each day's data and press "y" to accept data

C	1
T	0
To	0

Daily

Daily	0
Daily	0

Enter "y" to Process daily input and continue to Next Day

There are 4 division sections.

Total Data statistics received so far.

Data Entry section. This will disappear after all daily input has been received.

This is the confirmation section. You are required to enter a 'y' and press the enter key.

Enter each day's data and press "y" to accept data

6
36
290

Results

- 
- 
- 
- 
- 

Enter "y" to Process daily input and continue to Next Day

This is the results display

Top section stays the same

The total statistics are still displayed

The overall results. Retrieved from the array and printed in reverse order of collection.

The test details will provide a play by play screen shot list of what is expected for each part of the data processing requirements.

## Details

HTML is provided. No changes permitted. (Except Deletion Option)

CSS is provided. No changes permitted. Useful classes and identifiers included to reduce coding time for use with javascript/jQuery Selection.

Primary goal is to enter data in one field. Error checking is done immediately on this field. The 'y' enter field is not displayed if there is an error in progress.

Radio buttons are used to provide additional input.

and then enter 'y' in another field and press enter.

The processing is limited to updating total fields at the top of the page. Radio buttons are used to guide the processing approach.

Data is added to an array.

This continues for first data entry until fifth data entry has been received.

Display switches to reveal only the final display <div> after fifth data entry has been received.

The final page is a list using only <ul> and <li> that will be generated solely from the array in reverse order. Array element index access cannot use hard coding techniques such as [5], [4] etc. It has to be based on array.length logic.

There will be 2 error situations to check for. Text will be displayed in the Spanned Text area appropriate for the error that has occurred.

All grading will be based on the JavaScript/jQuery used to solve the problem.

Grading objectives include:

The test is limited to the following Outline points. No all points may be included.

Outline points

1.1 Windows and document objects

1.2.1 Textbox objects (with display of numbers up to 2 decimal places

1.2.2 Number Objects (with rounding to 2 decimal places)

1.2.4 String objects

1.3 Use of function expressions and function declarations

1.4 Attach function expression and function declaration to events

1.5.1 Register listeners that manipulate the DOM

1.5.2 Register event listeners that validate data

1.6 Show proficiency in working with arrays through the effective application of the map, reduce, and filter functions

## CP1295 Test 02 Scope Document V2

Itemized list from the course notes which is based on the textbook.

Test is limited to the items listed here.

Test can be completed using JavaScript. JQuery use is limited. Rules are listed later in this document.

Text book coverage Chapter 1 to Chapter 10

Special notes:

You are not required to use a node approach.

The test can be done by use of JavaScript alone, but use of jQuery may significantly reduce the amount of time used to complete the test. The solution key for the test uses jQuery. Sufficient documentation regarding the ID naming for all input fields, output fields and <div> markers are listed.

To reduce coding time. Some of the more routing code has been provided.

## The General Scope Rules

### Inclusions

(1) Code must be based on code demonstrated in this course or its pre-requisite course(s)

Course Text Book

Course Notes

Course Handouts

(2) DOM element selection techniques:

- i. `document.querySelector(sel )`
- ii. `document.querySelectorAll(sel)`
- iii. for jQuery `$( )`

(3) jQuery can be used to add elements

- i. but cannot be used to create elements such as “li” and “ul”

(4) All elements have to be created using `document.createElement()`

### Exclusions

(3) Code must follow the following exclusion rule(s)

a. Note: `getElementByTag`, `innerHTML`, `outerHTML` are not permitted in this test.

b. Use of jQuery for element processing is restricted

- i. jQuery cannot be used to create elements

Basic Grading Rubric will be provided in Version 2.



## Rubric

## CP1295 Grading Rubric

			100
A	Documentation		
A01	Name, Number, Course, Test#	2	
A02	Screen Shot 01	5	
A03	Screen Shot 02	5	
A04	JavaScript Code as TEXT. (Not Screenshot)	5	
			17
B	Error Checking		
B01	Not a number test and display	5	
B02	Range Testing and display	5	
B03	On Error hide 'next day div'	5	
B04	On no-error show 'next day div'	5	
			20
C	Form Ongoing Totals for AAAAAAA		
C01	Day 02 Rainfall 11	2	
C02	Day 04 Rainfall 33	2	
C03	Day 05 Rainfall 73	2	
			6
D	Form Ongoing Totals for BBBB BBBB		
D01	Day 03 --- details	2	
D02	Day 05 --- details	2	
D03	Day 05 --- details	2	
			6
E	Daily Form - calculations		
E01	Calculations for WWWWWW posted	2	
E02	Formatting to 2 Decimal Places	2	
E03	ZZZZZ Calculations on Day 2	2	
E04	ZZZZZ Calculations on Day 3	2	
E05	ZZZZZ Calculations on Day 4	2	
E06	ZZZZZ Calculations on Day 5	2	
			12
F	DAY 6 Events		
F1	Data Entry div hidden	4	
F2	next day div hidden	5	
F3	Results div displayed	5	
F4	UL/LI rows are displayed	5	
F5	Result Rows in Reverse Order	5	
F6	Correct Use of Arrays for Data Collection	5	
F7	Correct Use of Arrays for Generating UL/LI	5	

F8	Loops control use for Rev Array Listing	5	39
		100	100

End of Scope Document