***Documentation Packet Week Ending [Mar 31st]***

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| Team: \_\_\_\_\_\_\_ | Student: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| Goals:  * Practice skills needed for Exam 3 | Events:  * Mar 28th: Weekly Review * Mar 28th: [Lesson] Flow Charts * Mar 29th: [Lesson] ExpressJS Applications * Mar 31st: DocPac Due * Mar 31st Exam 3 |
| Included Documentation  * Pogcalc Flowchart (pg. 2) * Pogcalc Data Generation (pg. 2) * Pogcalc Data Analysis (pg. 2) * Digipog Exam Prep Project  * 6867D38F Exam 3 Checklist * Reflection (pg. 3) | Required Documentation  * C:\Users\csmith\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\6867D38F.tmp Digipog Exam Prep Project Submission * C:\Users\csmith\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\6867D38F.tmp Pogcalc Flowchart (pg. 2) * Pogcalc Data Generation (pg. 2)  * Pogcalc Data Analysis (pg. 2)  * Reflection (pg. 3) |
| Changes/Notes:  * “C:\Users\csmith\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\6867D38F.tmp Digipog Exam Prep Project” is weighted at double value, indicated by the “x2” in the grading rubric * All assignments are “Individual” this week. Help teammates only if it looks like they are not going to get their DocPac finished otherwise. | |

# Pogcalc Flowchart

Create a flowchart that does the following:

1. Reads a file containing “Pogchamps”
2. For each Pogchamp, you will read their number of pogs and the date of their last pog tournament win
3. You will need to calculate the amount of time between each Pogchamp’s last tournament win and today
4. You will need to calculate how many Pogchamps have not won a tournament since the 1990’s
5. After reading all Pogchamp information, you will display the total number of pogs owned by all Pogchamps, and the average number of pogs owned by all Pogchamps
6. After reading all Pogchamp information, you will also display the average amount of time that has passed since each Pogchamp’s last victory in years
7. After reading all Pogchamp information, you will also display the percentage of Pogchamps that have had victories since 2000 or sooner.
8. Ensure that your flowchart is optimized. Do not use multiple loops where one will do.

Print your flowchart and submit in the DocPac

# Pogcalc Data Generation

Create a nodeJS program that does the following:

1. Create an array of 20 name strings
2. Creates a class called “Pogchamp” that takes no arguments in the constructor. In the constructor:
   1. Create a ‘name’ property whose value is two random names from the names array above, concatenated together and separated by a space
   2. Create a ‘lastWin’ property whose value is a random number between the Epoch time Jan 1, 1990 (631152000000 in milliseconds) and today’s current date in Epoch time
   3. Create a ‘pogsOwned’ property that is a random number between 0 and 100
3. Create an empty list called “champData”
4. Use a loop to push 100 new Pogchamp objects to the “champData” array
5. Stringify the champData array and write in to a JSON file using ‘fs’ module

Print your code and submit in the DocPac

# Pogcalc Data Analysis

Create a nodeJS applications that functions as outlined by your Pogcalc Flowchart.

Print your code and submit in the DocPac

# Reflection

**[First Day] What did you take away from the Weekly Review this week?**

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**[First Day] How do you feel going into this week? What can you do to prepare to succeed?**

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**[Last Day] What was a significant challenge you had this week? How did you overcome it, or how will you overcome something like it happening in the future?**

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**[Last Day] What do you think of the lessons/activities in the class this week?**

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# Grading

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| +5 | You went above and beyond expectations. This tier will increase your overall score for the quarter, in addition to this DocPac. |
| +3 | You performed as well as expected for this class. This tier is the maximum score for this DocPac. |
| +2 | You show minimum effort, insufficient understanding, or have serious mistakes. This is the minimum passing tier for this DocPac. |
| 0 | The work was not submitted, damaged, seriously incorrect, or unprofessional. This is the failing/rejected tier. |

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| |  |  |  | | --- | --- | --- | |  |  | Reflection | | ❑ | S | Insightful and thoughtful | | ❑ | A | Good reflection | | ❑ | C | Did not follow directions | | ❑ | F | Did not complete | | |  |  |  | | --- | --- | --- | |  |  | DocPac Condition | | ❑ | +3 | You had a PR accepted | | ❑ | +1 | Neatly folded. Undamaged | | ❑ | 0 | Bent corners, creases, stains | |
| |  |  |  | | --- | --- | --- | | x2 | Download from cloud | C:\Users\csmith\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\6867D38F.tmp Digipog Exam Prep Project | | ❑ | S | Exceeds Expectations | | ❑ | A | Meets Expectations | | ❑ | C | Serious Errors | | ❑ | F | Did not complete | | |  |  |  | | --- | --- | --- | |  |  | Pogcalc Data Generation (pg. 2) | | ❑ | S | Exceeds Expectations | | ❑ | A | Meets Expectations | | ❑ | C | Serious Errors | | ❑ | F | Did not complete | |
| |  |  |  | | --- | --- | --- | |  |  | Pogcalc Flowchart (pg. 2) | | ❑ | S | Exceeds Expectations | | ❑ | A | Meets Expectations | | ❑ | C | Serious Errors | | ❑ | F | Did not complete | | |  |  |  | | --- | --- | --- | |  |  | Pogcalc Data Analysis (pg. 2) | | ❑ | S | Exceeds Expectations | | ❑ | A | Meets Expectations | | ❑ | C | Serious Errors | | ❑ | F | Did not complete | |