## Global Rain Logo

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**Date**: January 26, 2020

# Summary Report Template

**Directions:** Place your pseudocode, flowchart, and explanation in the following sections. Before you submit your report, remove all bracketed [ ] text.

## Pseudocode

When you are done implementing the Pet class, refer back to the Pet BAG specification document and select either the pet check-in or check-out method. These methods are detailed in the Functionality section of the specification document.

Write pseudocode that lays out a plan for the method you chose, ensuring that you organize each step in a logical manner. Remember, you will not be creating the actual code for the method. You do **not** have to write pseudocode for both methods. Your pseudocode must not exceed one page.

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| **PRINT Current Spaces available?**  **INPUT Spaces available**  **PRINT Cat or Dog to be boarded?**  **INPUT Cat or Dog**  **IF space available > 0 THEN**  **IF type = dog THEN**  **DECREMENT dog space available by 1**  **PRINT is your dog new or returning?**  **INPUT New or returning**  **IF new THEN**  **COLLECT new information**  **ELSE**  **UPDATE existing information**  **ENDIF**  **PRINT Length of stay for your dog?**  **INPUT Length of stay**  **IF length of stay >= 2 days THEN**  **PRINT Do you want our grooming service?**  **IF customer wants grooming service THEN**  **GROOM pet**  **PRINT Notice to groom pet**  **ASSIGN space for dog**  **PRINT Dog’s length of stay**  **ELSE**  **ASSIGN space for dog**  **PRINT Dog’s length of stay**  **ENDIF**  **ELSE**  **ASSIGN space for dog**  **PRINT Dog’s length of stay**  **ENDIF**  **ELSE**  **DECREMENT cat space available by 1**  **PRINT Is your cat new or returning?**  **INPUT New or returning**  **IF new THEN**  **COLLECT new information**  **ASSIGN space for cat**  **ELSE**  **UPDATE old information**  **ASSIGN space for cat**  **ENDIF**  **PRINT Length of stay for your cat?**  **INPUT Length of stay**  **PRINT Cat’s length of stay**  **ENDIF**  **ELSE**  **PRINT No vacancy available**  **ENDIF** |

## Flowchart

Based on the pseudocode you wrote, create a flowchart using a tool of your choice for the method you selected. In your flowchart, be sure to include start and end points and appropriate decision branching, and align the flowchart to the check-in/check-out process. Your flowchart must be confined to one page.

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## OOP Principles Explanation

Briefly explain how you applied object-oriented programming principles in the software development process. Your explanation should be one paragraph, or four to six sentences.

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| First, I had to develop pseudocode and a flowchart based off a series of conditional statements found in the spec document provided by the customer. Next, I had to write two classes; one Pet and one Dog. A Class construct groups data and methods to form an object. The Dog class contained public data such as dogSpaceNbr and dogWeight along with public accessor and mutator methods such as getDogWeight and setDogWeight. Because these methods were public, they could be called by other classes such as Pet class. I was able to determine the manner in which the class behaved from the UML diagram. Next, I created the Pet class which had the ability to call Dog objects. The Pet class contained exclusively private data along with public accessor/mutator methods. The Pet class also contained public methods. If anyone has feedback on my work please feel free to contact me via email: [Benjamin.Law@globalrain.eu](mailto:Benjamin.Law@globalrain.eu) or telephone: XXX-867-5309. |