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# IT 145 Global Rain Summary Report Template

## Pseudocode:

Introduction for customer

Pet Class:

petType

petName

petAge

dogSpaces

catSpaces

daysStay

amountDue

CHECK IN:

if (customer wants to check in)

What animal is customer choosing? (Dog/Cat)

If (dog)

Is there vacancy? — 00030 available spaces

Else if (cat)

Is there vacancy? -- 00012 available spaces

Else (invalid)

Has Animal been checked in before? (Y/N)

If (animal has not been checked in before)

Get information

petType

if (dog)

dog weight input

else

continue

petName

petAge

Else (animal has been checked in before)

Verify information

petType

if (dog)

dog weight.input

else

continue

petName

petAge

How many days is the pet staying?

If (petType.dog && (daysStay >= 2))

Ask pet owner of they would like the dog groomed.print (Y/N)

Else (continue)

Confirm selections

Assign pet to a space

## Flowchart:

Start

Check In (Y/N)

PetClass:

petType

petName

petAge

dogSpaces

catSpaces

daysStay

amountDue

Verify Info

Yes

What Animal? (Dog/ Cat)

Get Info

No

Has Animal been in before?

Dog or Cat?

Is there space? (Y/N)

How many days is the pet staying?

If pet is a dog and staying 2 or more days.

Ask owner if they would like dog groomed.

Confirm the inputed Selections

Assign pet to a space.

End Checkin

## OOP Principles Explanation:

In this program I utilized Encapsulation to hide the option of grooming to only those pet owners whose pets qualified. I also will hide the total available numbers of “spaces” for the animals and only show if there is a vacancy or not. Inheritance is in the obtaining new information about a new pet or updating/ confirming the info already provided for a returning pet. The same questions are re-asked or presented to the end user; thus not reinventing the wheel and making it easier on the software engineer. Although other methods will be utilized in the final product, this short pseudocode can demonstrate how the same process can be applied to different end users with different pets.