Milestone 1: Psuedocode

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**Milestone one**

For this assignment I’ve selected the check-out method to begin with.

As for breaking down the method I’ve taken the following notes:

* **Identify the pet and boarding space**
  + Relatively simple. Get the user input of the pets name and owners name. query boarding spaces to find which space(s) are designated to the owner name, check pet name against all entries that match owner name to find the specific pet searched for, return the specific kennel number.
* **Determine if the pet had a grooming fee. Dogs only and only if they stay 2 or more days.**
  + Also quite simple. If the input animal type is a dog, check the stay time to see if further investigation is required from the system and if so check if grooming services were rendered. If so check the dogs weight to determine the fee.
* **Use the table to determine fees.**
  + No major thoughts.
* **Mark the boarding space as vacant.**
  + Just have the boarding space as an object and set that objects status as vacant after vacating the animal (or perhaps set as something else such as cleaning until the space is cleaned then vacant but this may be outside of the scope of the project.)

**Psuedocode**

Method start

INIT variable feesTotal

GET owner name from user as ownerName

GET pet name from user as petName

DETERMINE spaces assigned to ownerName

DETERMINE spaces assigned to petName after narrowed to ownerName

(// Note: this is simply to prevent issues wherein multiple animals hold the same name)

DETERMINE type of pet as petType

GET stayLengthDays

GET petWeight

IF petType is dog:

IF petWeight is greater than or equal to 30 pounds:

SET feesTotal to be equal to stayLengthDays \* 34

ELSE IF petWeight is between 20 and 30 pounds:

SET feesTotal to be equal to stayLengthDays \* 29

ELSE IF petWeight is less than 20 pounds:

SET feesTotal to be equal to stayLengthDays \* 24

ENDIF

ELSE IF petType is cat:

SET feesTotal to be equal to stayLengthDays \* 18

ENDIF

IF stayLengthDays is greater than or equal to 2 AND petType is dog:

DETERMINE if grooming services were rendered.

IF grooming services rendered:

IF petWeight is greater or equal to 30 pounds:

SET feesTotal to feesTotal plus 29.95

ELSE IF petWeight is between 20 and 30 pounds:

SET feesTotal to feesTotal plus 24.95

ELSE IF petWeight is less than 20 pounds:

SET feesTotal to feesTotal plus 19.95

ENDIF

ENDIF

ENDIF

PRINT “Total owed is $“ + feesTotal

SET boarding space status to “vacant”

**Flowchart**

**START**

**Initialize feesTotal**

GET ownerName and petName

**Determine spaces assigned to ownerName & petName**

**Determine petType from data**

**Get stayLengthDays & petWeight from data**

Is petType dog?

Set feesTotal to stayLengthDays \* 18

False

True

Set feesTotal to stayLengthDays \* 34

petWeight >= 30lb

TRUE

ELSE

TRUE

petWeight between 20-30

Set feesTotal to stayLengthDays \* 29

Set feesTotal to stayLengthDays \* 24

petWeight < 20

ELSE

TRUE

stayLengthDays >= 2 and petType = dog?

FALSE

TRUE

groomingServicesRendered?

FALSE

TRUE

Add 29.95 to feesTotal

petWeight >= 30lb

TRUE

ELSE

petWeight between 20-30

Add 24.95 to feesTotal

TRUE

ELSE

Add 19.95 to feesTotal

petWeight < 20

TRUE

Print “Total owed: $” + feesTotal

Set boarding space status to vacant.