Pseudocode Module 1

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A Method for Pet Check-in

Main function ()

**Loop**

**Output** “Are you checking in a (c)at or a (d)og?”

**Store** entry in variable petType

**Continue** Loop if not ‘c’ OR ‘d’

//Need to check if the space for that pet type is available

**If** PetType is cat and spaces available for cat equals 0

**Warn** the user “No cat spaces available”

**Exit**

**Else** if dog spaces available equals 0

**Warn** the user “No dog spaces available”

**Exit**

**Loop**

**Output** “Is this a (n)ew customer or a (r)eturning customer”

**Store** entry in variable customerType

**Continue** Loop if not ‘n’ OR ‘r’

//Need to determine the pet’s name no matter if new or returning

**Output** “Please enter the pet’s name”

**Store** entry in variable petName

**If** new customer

**Set** pet name with variable petName

**Output** “Please enter the pet’s age”

**Store** entry in variable petAge

**Set** pet’s age with variable petAge

**If** petType is dog

**Output** “Please enter the pet’s weight”

**Store** entry in variable dogWeight

**Set** pet’s weight with variable petWeight

**Else** //returning customer

**Output** petAge

**If** petType is dog

**Output** dogWeight

**Output** “Does all of the data look correct?”

**Store** entry in variable dataUpdate

**If** dataUpdate is ‘No’

**Loop**

**Output** “What data do you need to update: (n)ame, (a)ge, (w)eight, (q)uit?

**Store** entry in variable dataUpdateType

**Case** statement

**Case** weight

**If** petType is dog

**Output** “Please enter the correct weight”

**Store** entry in dogWeight

**Set** dog weight with variable dogWeight

**Else**

**Output** “Weight is not needed for cats”

**Case** age

**Output** “Please enter the correct age”

**Store** entry in petAge

**Set** pet age with variable petAge

**Case** name

**Output** “Please enter the correct name”

**Store** entry in petName

**Set** pet name with variable petName

**Loop** until dataUpdateType is quit

**Output** “How many days to be board?”

**Store** entry in daysStay

**If** petType is dog and daysStay >=2

**Output** “Does the customer want grooming: (y)es or (n)o?”

**Store** entry in petGrooming

//Now we have all the required information; book the stay

**Call** method to

**If** petType is dog

**Set** grooming status with variable petGrooming

**Set** dog Space Number

//Will need to implement the method in a way to overload via polymorphism. Better to have the method split instead of implementing tons of logic in the method and in main

**Set** amountDue passing dogWeight, daysStay, petGrooming

**Else**

**Set** cat Space Number

**Set** amountDue passing daysStay

Flowchart of Pseudocode

No

Cat or Dog?

Start

Input pet type

Yes

Spaces available?

Get quantity of days

Update?

Yes

Input update needed

No

Output stored pet data

Yes

Dog?

No

Warn weight is not needed

Yes

Input pet weight

Input pet name, age

Input customer type

Yes

No

Stop

Determine if there are cat spaces or dog spaces available

New customer?

No

No

No

Yes

No

Dog?

Stop

Book stay with the inputs: name, days, age, amount due, space number

Calculate amount due

Stop

Book stay with the inputs: name, days, age, grooming, weight, amount due, space number

Calculate amount due

Yes

Input customer requests grooming

Dog?

>= 2 days?

Yes