GLOBALRAIN

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IT 145 Global Rain Summary Report Template

Pseudocode:

```
FUNCTION petCheckIn()

  PROMPT "Is your pet a Dog or a Cat?"
  GET petType

  IF petType is "Dog" THEN
    IF availableDogSpaces > 0 THEN
      DECREMENT availableDogSpaces by 1
    ELSE
      DISPLAY "No more space available for dogs."
      RETURN
    ENDIF

  ELSE IF petType is "Cat" THEN
    IF availableCatSpaces > 0 THEN
      DECREMENT availableCatSpaces by 1
    ELSE
      DISPLAY "No more space available for cats."
      RETURN
    ENDIF
  ENDIF

  PROMPT "Is this a returning pet? (Yes or No)"
  GET returningPet

  IF returningPet is "No" THEN
    PROMPT "Enter pet name:"
    GET petName

    PROMPT "Enter pet age:"
    GET petAge

    IF petType is "Dog" THEN
      PROMPT "Enter pet weight (in lbs):"
      GET petWeight
    ENDIF

  ELSE
    PROMPT "Please confirm pet name:"
    GET petName

    PROMPT "Please confirm pet age:"
    GET petAge
```

```
    IF petType is "Dog" THEN
      PROMPT "Please confirm pet weight (in lbs):"
      GET petWeight
    ENDIF
  ENDIF

  PROMPT "Enter number of days the pet will stay:"
  GET lengthOfStay

  IF petType is "Dog" AND lengthOfStay >= 2 THEN
    PROMPT "Would you like to add grooming services? (Yes or No)"
    GET wantsGrooming
  ELSE
    SET wantsGrooming = "No"
  ENDIF

  IF petType is "Dog" THEN
    IF petWeight >= 30 THEN
      SET dailyBoardingFee = 34.00
      SET groomingFee = 29.95
    ELSE IF petWeight >= 20 THEN
      SET dailyBoardingFee = 29.00
      SET groomingFee = 24.95
    ELSE
      SET dailyBoardingFee = 24.00
      SET groomingFee = 19.95
    ENDIF

  ELSE IF petType is "Cat" THEN
    SET dailyBoardingFee = 18.00
  ENDIF

END FUNCTION
```
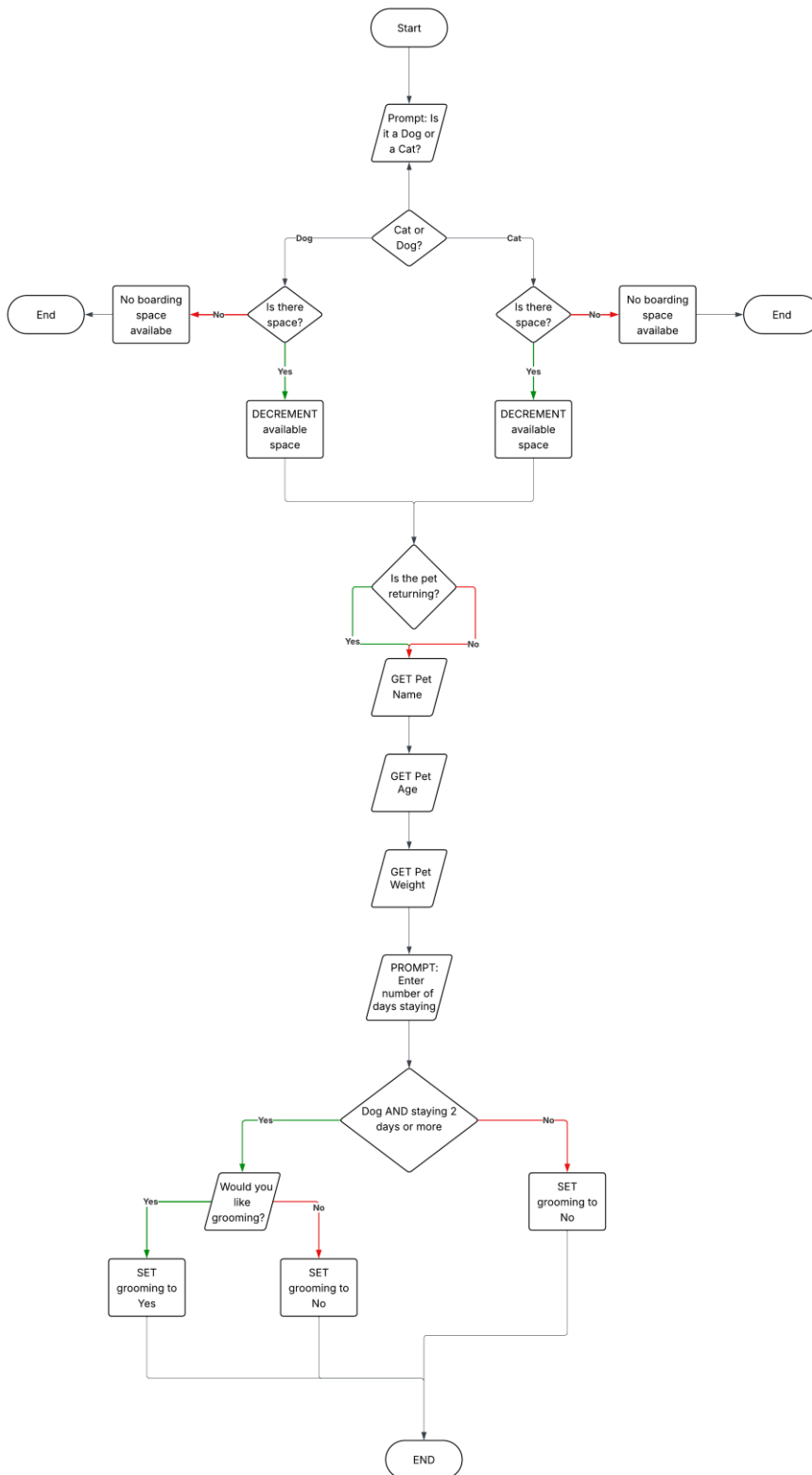
Flowchart:

OOP Principles Explanation:

I used object-oriented programming principles to keep my code for my pet class clean, readable, and modular. By using encapsulation, I made certain attributes private to protect and control how they are accessed and controlled. Some other qualities were public so that I could give controlled access. By using that, I'm able to protect my data, and this makes it easier to manage my code and to modify it. I included constructors to set default or specific values for the Pet objects, depending on how they were created. This helps to organize pet-related data in a reusable and consistent manner.