Pseudocode for Check-In:

1. Prompt user for type of pet (dog or cat).

2. Check if the pet is a dog or a cat.

3. If the pet is a dog:

- Check if there is space available for a dog (less than 30 dogs already boarded).

- If there is space available:

- Collect information for the new dog or update information for returning dog.

- Ask for length of stay.

- Check if the stay is for 2 or more days.

- If yes, ask if the pet owner would like the dog to be groomed.

- If yes, assign the dog to a boarding space and mark for grooming.

- If no, assign the dog to a boarding space without grooming.

- If there is no space available, display a message indicating that the boarding facility is full for dogs.

4. If the pet is a cat:

- Check if there is space available for a cat (less than 12 cats already boarded).

- If there is space available:

- Collect information for the new cat or update information for returning cat.

- Ask for length of stay.

- Assign the cat to a boarding space.

- If there is no space available, display a message indicating that the boarding facility is full for cats.

5. Update the counts for dogs and cats boarded in the system.

6. End of check-in process.

Pseudocode for Pet Check Out:

1. Prompt the user to enter the type of pet (dog or cat) and the boarding space number for the pet.

2. Check if the boarding space is occupied by a pet of the specified type (dog or cat).

3. If the pet is a dog, prompt the user to enter if grooming services were provided.

4. If grooming services were provided, calculate the grooming fee based on the weight category of the dog.

- For dogs greater than or equal to 30 lbs: Grooming Fee = $29.95

- For dogs between 20-30 lbs: Grooming Fee = $24.95

- For dogs fewer than 20 lbs: Grooming Fee = $19.95

5. Calculate the total fees for the pet based on the daily boarding fee and grooming fee (if applicable).

- For dogs:

- Daily Boarding Fee = $34.00 (greater than or equal to 30 lbs)

- Daily Boarding Fee = $29.00 (20-30 lbs)

- Daily Boarding Fee = $24.00 (fewer than 20 lbs)

- For cats: Daily Boarding Fee = $18.00

6. Mark the boarding space as vacant.

7. Display the total fees (boarding fee + grooming fee, if applicable) to the user.

8. End of the check-out process.

A white paper with black text

Description automatically generated