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IT-145 Found in App Development

8 January 2024

Pseudocode For Pet Check-in

DETERMINE IF pet is a CAT or a DOG

IF pet is DOG:

> **CHECK** if space for DOG is available (Maximum of 30):

> **IF** no space is available:

>> **OUTPUT** no available space;

> **ELSE** space is available:

>> **CHECK** for new or returning pet:

> **IF** new:

>> **COLLECT** new pet information:

>>> petName;

>>> petAge;

>>> daysStay;

>>>> **IF** staying days are 2 or more:

>>>>> **CHECK** if grooming is wanted:

>>>>> **IF** groomed:

>>>>>> **SELECT** groom;

>>>>>> **ASSIGN** pet to space;

> **ELSE IF** returning pet:

UPDATE pet information if needed

petName;

petAge;

daysStay;

IF staying days are 2 or more:

CHECK if grooming is wanted:

IF groomed:

SELECT groom;

ASSIGN pet to space;

DECREASE available dog space by 1;

IF pet is a CAT:

CHECK if space for CAT is available (Maximum of 12):

IF no space is available:

OUTPUT no available space;

ELSE space is available:

CHECK for new or returning pet:

IF new:

COLLECT new pet information:

petName;

petAge;

daysStay;

ELSE IF cat is returning:

UPDATE pet information if needed:

petName;

petAge;

daysStay;

ASSIGN pet to space;

DECREASE available cat space by 1;

END

Flow Chart

START

Determine Pet Type

— DOG → dogSpace Available (30)

— CAT → catSpace Available (12)

dogSpace Available (30):
- NO → OUTPUT "no available space"
- YES → Determine New Pet or Returning Pet

catSpace Available (12):
- NO → OUTPUT "no available space"
- YES → Determine New Pet or Returning Pet

Determine New Pet or Returning Pet (dog side):
- RETURNING → Update Pet Information
- NEW → Collect Pet Information

Determine New Pet or Returning Pet (cat side):
- RETURNING → Update Pet Information
- NEW → Collect Pet Information

petName

petAge

daysStay (Days Staying) — left

daysStay (Days Staying) — right

daysStay (left):
- 2 days or more
  - YES → Offer Grooming
  - NO → Assign dogSpace and update space available

Offer Grooming:
- NO → Assign dogSpace and update space available
- YES → Assign dogSpace and update space available

daysStay (right) → Assign catSpace and update space available

Assign catSpace and update space available → END

Assign dogSpace and update space available → END

END