«enumeration» AnimalType

COYOTE(19,10,5,5),
FOX(0,5,5,5),
PORCUPINE(19,0,5,10),
BEAVER(8,0,5,5),
RACCOON(0,0,5,5)
KITS(0,0,0,30)

- -FEED_START_TIME : int
- -PREP-DURATION : int
- -FEED-DURATION : int
- -CLEAN-DURATION : int
- +AnimalType(feedStartTime : int, prepTime : int, feedDuration : int, cleanDuration : int)
- +getFeedStartTime() : int
- +getPrepDuration() : int
- +getFeedDuration() : int
- +getCleanDuration() : int

«uses»

ScheduleOverflowException

+ScheduleOverflowException (message : string)

Treatments

- -treatmentID : int
- -animalID : int
- -startHour : int
- -description : string
- -duration : int
- -maxWindow : int
- -setupTime : int
- +Treatments (treatmentID : int, animalID : int, startHour : int, description : String, duration : int, maxWindow : int)
- +Treatments (treatment : int, startHour : int, description : string, duration : int, maxWindow : int, setupTime : int
- +getTreatmentID() : int
- +getAnimalID() : int
- +getStartHour() : int
- +getDescription() : string
- +getDuration() : int
- +getMaxWindow() : int
- +getSetupTime() : int

Animal

- -ID : int
- -NICKNAME : String
- -SPECIES : AnimalType
- -animalTreatments : ArrayList < Treatments > = new ArrayList<Treatments>();
- +Animal(id : int, name : String, species : String)
- +addTreatments (treatments : ArrayList < Treatments >
- +getID() : int
- +getNickname() : string
- +getSpecies() : AnimalType
- +getAnimalTreatments() : ArrayList<Treatments>

Schedule

- -animalsArray : ArrayList < Animal >
- -schedule : Treatments[][] = new Treatments[24][12]
- -backupSchedule : Treatments[][] = new Treatments[24][12];
- -sortTreatments (treatments : ArrayList<Treatments> : ArrayList <Treatments >
- -getAnimalFromTreatment (treat : treatment) : Animal
- -addToBackupSchedule (treatment : Treatments)
- -addToSchedule (treatment : Treatments)
- -scatterSetupTimes (animalType : AnimalType)
- -handleTreatmentSetupTimes ()
- -writeBackup (hour : int, scheduleString : string) : string
- -countDuplicateTreatments() : HashMap<Treatments , Integer >
- -writeScheduleTxt(scheduleString : string)
- +Schedule (animals : ArrayList<Animal>
- +Schedule (animals : ArrayList<Animal>, treatments : ArrayList < Treatments >
- +addTreatments (treatments : ArrayList <Treatments >
- +getAnimalsArray() : ArrayList < Animal>
- +getSortedTreatments() : ArrayList <Treatments>
- +createSchedule ()
- +getBackupHours () : ArrayList <integer >
- +getSchedule() : Treatments [][]
- +getBackupSchedule() : Treatments[][]
- +writeSchedule ()
- +main(args[] : String) : String[]

«throws»

«throws»

«throws»

«throws»