

IES Ex6:

AltaAnimal

Context: Sistema::AltaAnimal(nomA:String, nomE:String, sexe:Tsexe, ag[0...1]:Boolean, nomP:String, pob[0...1]:String)

Pre: Especie.AllInstances()->exists(e | e.nom = nomE)

Post: if not Persona.AllInstances()@PRE->exists(p | p.nom = nomP) then
Persona.AllInstances()->exists(p | p.ocllsNew() and p.nom = nom p.poblacio = pob) endif
Animal.AllInstances()->exists(a | a.ocllsNew() and a.nom = nomA and a.propietari.nom = nomP
and a.sexe = sexe and a.especie.nom = nomE and if(nomE=='Gos') then
a.ocllsTypeOf(Gos).agressiu = ag Endif)

Alta Operació Urgent

Vet: Sistema:

afegiropg(nomA, nomCol, data, horal, horaFi, mot, exit): Op -->

Loop: afegirMed(op, nomM, dosi) -->

Context: Sistema::afegiropg(nomA:String, numCol:int, date:Date, horal:Time, horaFi:Time, mot:String, exit:Boolean) Op:OperacióFinalitzada

Pre: Animal.AllInstances()->exists(a | a.nom = nomA) and Veterinari.AllInstances()->select(v | v.numCol = numCol).especie->includes(Animal.AllInstances()->select(a | a.nom = nomA).especie)

Post: OperacióFinalitzada.AllInstances()->exists(of | of.ocllsNew() and of.exitosa = exit and of.horaFi = horaFi and of.horal = horal and of.motiu = mot and of.animal.nom = nomA and of.dataop = data and of.veterinari.numCol = numCol and result = of)

Context: Sistema:afegirMed(of:OperacioFinalitzada, nomM:String, dosi:String)

Pre: Medicament.AllInstances()->exists(m | m.nom = nomM)

Post: MedicamentAdministrat.AllInstances()->exists(ma | ma.ocllsNew() and ma.dosi = dosi and ma.medicament.nom = nomM and ma.operacioFinalitada = of)

Consulta Gossos Perillosos No Esterilitzats

Context: Sistema::consulta(pobl:String): set(TupleType(nomA:String, nomP:String, vet:Boolean))

Pre: Persona.AllInstances()->exists(p | p.poblacio = pobl and p.animal->notEmpty())

Body: LET gossosAg:set(Gos)= Gos.AllInstances()->select(g | g.agresiu = true and g.sexe = Tsexe::mascle and g.propietari.poblacio = pob and g.operacio.motiu->select(m | m="Esterilitzacio")->size()==0) IN result = gossosAg->collect(gos | Tuple(nomA = gos.nom, nomP = gos.propietari.nom, vet = gos.propietari.ocllsTypeOf(Veterinari)))