Exercici 7 IES: Escola de ball

context: Sistema::CrearParella (nom1: String, nom2: String): Parella

pre: nom1 != nom2

and Persona.allInstances() -> exists(p1 | p1.nom = nom1) and Persona.allInstances() -> exists(p2 | p2.nom = nom2)

post: Parella.allInstances() -> select (par | par.Persona.nom = nom1

and par.Persona.nom = nom2)

context: Sistema::CrearActivitat (nomR: String, data: Data, par: Parella):

pre: Recinte.allInstances() -> exists (e | e.nom = nomR)
and Data.allInstances -> exists (d | d.data = data)

> and a.Data.data = data and result = a and a.ocllsType(Concurs).Parella = par

and a.ocllsType(Concurs).ParellaParticipant.dorsal = dor

and a.Concurs.Parella))

context: Sistema::SeleccionarConcurs (nomR: String, data: Data): Concurs

pre: Recinte.allInstances() -> exists (r | r.nom = nomR)
and Data.allInstances() -> exists (d | d.data = data)

context: Sistema:: EnregistrarGuanyadors(nom1: String, nom2: String, dorsal: Natural, act: Activitat):

pre: Persona.allInstances() -> exists (p1 | p1.nom = nom1)
and Persona.allInstances() -> exists (p2 | p2.nom = nom2)
and ParellaParticipant.allInstances() -> exists (p | p.dorsal = dorsal)

post: ParellaGuanyadora.allInstances() -> exists (p | p.ocllsNew() and p.ParellaParticipant.dorsal = dorsal

and p.ParellaParticipant.Concurs.Activitat = act)

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context: Sistema::ConsultarConcursos (nomR: String): Set (TupleType (data: Date, participants: Integer))
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in contests -> collect(a | Tuple {data = a.data, participants = a.Concurs.size()})