

```

sally
|
+opt(role(customer))
+opt(role(seller))
+org(rea(sally,customer))
+opt(send(true,tell,org(rea(sally,customer))))
↓
s0
|
+org(norm(sally,customer,obliged,bel(registered(sally)),bel(verified(sally))))
+opt(obj(bel(registered(sally))))
+opt(norm(customer,obliged,bel(registered(sally)),bel(verified(sally))))
+sent(bob,org(rea(sally,customer)))
↓
s1
|
+sent(carol,org(rea(sally,customer)))
↓
s2
|
+om(org(rea(carol,customer)))
+org(norm(carol,customer,obliged,bel(registered(carol)),bel(verified(carol))))
+sent(mike,org(rea(sally,customer)))
↓
s3
|
+om(org(rea(bob,customer)))
+org(norm(bob,customer,obliged,bel(registered(bob)),bel(verified(bob))))
+goal(registered(sally))
↓
s4
|
+om(org(rea(mike,manager)))
↓
s5
|
-org(norm(sally,customer,obliged,bel(registered(sally)),bel(verified(sally))))
-opt(obj(registered(sally)))
-opt(norm(customer,obliged,bel(registered(sally)),bel(verified(sally))))
+org(rea(sally,seller))
+opt(send(true,tell,org(rea(sally,seller))))
↓
s6
|
+org(norm(sally,seller,obliged,bel(verified(sally)),bel(auction(sally,Item))))
+opt(obj(bel(verified(sally))))
+opt(norm(seller,obliged,bel(verified(sally)),bel(auction(sally,_21201720))))
+opt(send(manager,achieve,bel(verified(sally))))
+sent(bob,org(rea(sally,seller)))
↓
s7
|
+sent(carol,org(rea(sally,seller)))
↓
s8
+om(org(rea(carol,buyer)))
|
+om(org(rea(bob,buyer)))
+org(norm(carol,buyer,obliged,bel(verified(carol)),bel(bid(carol,Item))))
+org(norm(bob,buyer,obliged,bel(verified(bob)),bel(bid(bob,Item))))
-org(norm(carol,customer,obliged,bel(registered(carol)),bel(verified(carol))))
-opt(obj(registered(carol)))
-opt(norm(customer,obliged,bel(registered(carol)),bel(verified(carol))))
-org(norm(bob,customer,obliged,bel(registered(bob)),bel(verified(bob))))
-opt(obj(registered(bob)))
-opt(norm(customer,obliged,bel(registered(bob)),bel(verified(bob))))
+org(norm(mike,manager,forbidden,bel(verified(bob)),false))
↓
s9
+sent(mike,org(rea(sally,seller)))
|
+sent(mike,opt(obj(bel(verified(sally)))))
↓
s10
|
+om(bel(verified(sally)))
-org(norm(sally,seller,obliged,bel(verified(sally)),bel(auction(sally,_19556631))))
-opt(obj(verified(sally)))
-opt(norm(seller,obliged,bel(verified(sally)),bel(auction(sally,_19556631))))
-org(norm(carol,buyer,obliged,bel(verified(carol)),bel(bid(carol,_31663928))))
-opt(obj(verified(carol)))
↓
s11
|
+org(norm(carol,customer,obliged,bel(paidFor('PH-lamp')),'\+'(bel(participates(carol,'PH-lamp')))))
↓
s12
|
-org(norm(carol,customer,obliged,bel(paidFor('PH-lamp')),'\+'(bel(participates(carol,'PH-lamp')))))
-opt(obj(paidFor('PH-lamp')))
-opt(norm(customer,obliged,bel(paidFor('PH-lamp')),'\+'(bel(participates(carol,'PH-lamp')))))
↓
s13
|
↓
s14

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