1. * 1. Tp = { p(a,b), q(c,c), q(b,d), q(c,a) }
     2. Tp = { p(a,b),q(c,c), q(b,d), r(x), r(y), q(y,x) | x,y ∈ {a,b,c,d} }
     3. Tp = { p(a,b,b), q(a,b), r(a), q(a,c), q(c,b) }
     4. Tp = { p(a,b,b), r(x), q(x,y) | x,y,z ∈ {a,b} }
2. For example, since Bp = { p(a,b), q(c,c), q(b,d), q(x,y) -> r(x), p(x,x) ^ q(y,x) -> r(y), p(x,y) -> q(y,x) | x,y ∈ {a,b,c,d} } and Tp(Bp) = { p(a,b),q(c,c), q(b,d), r(x), r(y), q(y,x) | x,y ∈ {a,b,c,d} }, then this shows that Bp is a prefixed point of Tp since Tp is a subset of Bp. Bp contains all possible combination of ground atoms so Tp must be a subset, or equal to, Bp.
   1. Fixed point: { q(a,b), p(c), r(b,a) }

Pre-fixed point: { q(a,b), p(c), r(b,a), r(b,b) }, { q(a,b), p(c), r(b,a), r(a,a) }, { q(a,b), p(c), r(b,a), r(a,b), r(b,b) }

1. Fixed point: { q(a), q(b), p(c), r(c,a), r(c,b) }

Pre-fixed point: { q(a), q(b), p(c), r(c,a), r(c,b), r(a,a) }, { q(a), q(b), p(c), r(c,a), r(c,b), r(b,b) }, { q(a), q(b), p(c), r(c,a), r(c,b), r(a,a), r(b,b) }