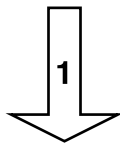
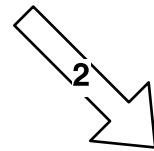
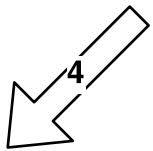


$r1: \text{livesIn}(X, Z) \text{ :- } \text{isMarriedTo}(X, Y) \wedge \text{livesIn}(Y, Z)$
 $r2: \text{actedIn}(X, Z) \text{ :- } \text{isMarriedTo}(X, Y) \wedge \text{directed}(Y, Z)$
 ...



$r3: \text{livesIn}(X, Z) \text{ :- } \text{isMarriedTo}(X, Y) \wedge \text{livesIn}(Y, Z) \wedge$
 $\text{not } \mathbf{researcher}(X)$
 $r4: \text{livesIn}(X, Z) \text{ :- } \text{isMarriedTo}(X, Y) \wedge \text{livesIn}(Y, Z) \wedge$
 $\text{not } \mathbf{singer}(X)$
 $r5: \text{actedIn}(X, Z) \text{ :- } \text{isMarriedTo}(X, Y) \wedge \text{directed}(Y, Z) \wedge$
 $\text{not } \mathbf{silentFilmActor}(X)$
 ...



Component 5

Ranking
 Exceptions

