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```
% These are all facts.
% Def: X's properties.
beautiful (nisse) .
beautiful (peter) .
beautiful (ulrika).
kind(bosse).
rich (bettan) .
rich(nisse).
strong (bettan) .
strong (bosse) .
strong (peter) .
man (bosse) .
man (peter) .
man(nisse).
woman (ulrika).
woman (bettan) .
% like is mostly independent,
% except for the facts above.
% Definition: X does like Y.
like(X, Y):-
    man(X),
    woman(Y),
    beautiful(Y).
like(ulrika,X) :-
    man(X),
    rich(X),
    kind(X),
    like(X,ulrika).
like(ulrika,X) :-
    man(X),
    beautiful(X),
    strong(X),
    like(X,ulrika).
like(nisse, X) :-
    woman(X),
    like(X, nisse).
% happy depends on like, so
% it needs to be put below.
% Definition: X is happy!!!
happy (X):-
    man(X),
    like(X,Y),
    woman(Y),
    like (Y, X).
happy (X):-
    woman(X),
    like (X, Y),
    man(Y),
    like(Y, X).
happy (X):-
    rich(X),
    man(X).
happy (X):-
    rich(X),
    woman(X).
% -----EXAMPLE QUERY-----
% Who is happy?
% -----
% ?- happy(X).
% X = peter ? ;
% X = ulrika ? ;
% X = nisse ;
% X = bettan
% no
```

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