recursion: e.g. on these lists or on terms

We have multiple ways to use recursion: in the database and in our queries for example we can make properties transitive. '" dadof(you,dad). dadof(dad,granddad). dadof(granddad, petethegreat). momof(petethegreat,eve) ancestorof(X,Y):- dadof(X,Y). ancestorof(X,Y):- momof(X,Y). %naive: ancestorof(X,Y):- ancestorof(X,Z),ancestor(Z,Y). '" ... '" %better: ancestorof(X,Y):- dadof(X,Z),ancestor(Z,Y). ancestorof(X,Y):- momof(X,Z),ancestor(Z,Y). '"

recursion on lists

suppose we have a list of groupmembers '[roald, winand, anvar, alexey, sjoerd]' ... we can declare a member of this group to be part of this list using recursion i.e. '" member(H, [H|T]) member(X, [H|T]) :- member(X,T) '" ... So when we search for members we can simply search '?- member(anvar,[roald, winand, anvar, alexey, sjoerd])' which would say yes