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%%%% File: pets world 1
%%%% Line: world of cats and dogs
%% Facts...
% cat(B, height(H),color(C)) :: B is the breed of a cat with height H
and color C
cat(siamese, height(12), color(brown)).
cat(laperm, height(13), color(black)).
cat(ragdoll, height(15), color(white)).
% \log (B, height(H), color(C)) :: B is the breed of a dog with height H and
color C
dog(beagle, height(14), color(brown)).
dog(poodle, height(20), color(white)).
dog(saluki,height(26),color(black)).
%% Rules...
% dogs :: all those items listed are dogs
dogs :- dog(Breed,_,_), write(Breed), nl, fail.
dogs.
% cats :: all those items listed are cats
cats :- cat(Breed, , ), write(Breed), nl, fail.
cats.
% pets :: all those items listed are pets
pets :- cats, dogs.
% brown(Breed) :: Breed is a brown pet.
brown(Breed) :- dog(Breed, ,color(brown)).
brown(Breed) :- cat(Breed, ,color(brown)).
% black(Breed) :: Breed is a black pet.
black(Breed) :- dog(Breed,_,color(black)).
black(Breed) :- cat(Breed, ,color(black)).
% white (Breed) :: Breed is a white pet.
white(Breed) :- dog(Breed, ,color(white)).
white(Breed) :- cat(Breed,_,color(white)).
% tall(Breed) :: Breed is a tall pet
tall(Breed) :- cm(Breed, Cm), Cm >= 38.1.
% small(Breed) :: Breed is a small pet
small(Breed) :- cm(Breed, Cm), Cm < 38.1.</pre>
% cm(Breed, Cm) :: Cm is the height in centimeters of the pet with breed
Breed.
cm(Breed,Cm) :- cat(Breed,height(H), ),Cm is 2.54 * H.
cm(Breed,Cm) :- dog(Breed,height(H), ),Cm is 2.54 * H.
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