A Simple Insertion Sort

isort([], []).

isort([X | Y], Z) :- isort(Y, W), place(X, W, Z).

place(X, [], [X]).

% place(X, [Y | Z], [X,Y | Z]) :- X =< Y.

% place(X, [Y | Z], [Y | W]) :- X > Y, place(X, Z, W).

% Eliminate Redundant Test

place(X, [Y | Z], [X,Y | Z]) :- X =< Y, !.

place(X, [Y | Z], [Y | W]) :- place(X, Z, W).

When cut (!) succeeds in the first rule for place, solving the goal that invoked the rule cannot later be attempted using the second rule for place.