prov([],\_) :- fail,!.

prov([H|\_],H) :- !.

prov([\_|X],H) :- prov(X,H).

x1\_or\_x2([],X2,X2) :-!.

x1\_or\_x2([H|X1],X2,[H|Y]) :-

not(prov(X2,H)), x1\_or\_x2(X1,X2,Y), !.

x1\_or\_x2([\_|X1],X2,Y) :-

x1\_or\_x2(X1,X2,Y),!.

del\_e\_x([],\_,[]) :- !.

del\_e\_x([H|E],X,[H|Y]) :- not(prov(X,H)), del\_e\_x(E,X,Y),!.

del\_e\_x([\_|E],X,Y) :- del\_e\_x(E,X,Y),!.

shtr(E,X1,X2,Y) :-

x1\_or\_x2(X1,X2,Z),

del\_e\_x(E,Z,Y).

x1\_and\_x2([],\_,[]).

x1\_and\_x2(\_,[],[]).

x1\_and\_x2([H|X1],X2,[H|Y]) :-

prov(X2,H), x1\_and\_x2(X1,X2,Y ),!.

x1\_and\_x2([\_|X1],X2,Y) :-

x1\_and\_x2(X1,X2,Y ),!.