

Line Original Program Clause

1 p([],L).
 2 p([H|T],[H|R]) :- p(T,R).

Step	Renamed clause	MGU	Goals	Query	
1	p([],L1).	X=[], L1=[1,2,3]	[p(X,[1,2,3])] []	[p(X,[1,2,3])] [p([],[1,2,3])]	success
2	p([H2 T2],[H2 R2]) :- p(T2,R2).	X=[1 T2], H2=1, R2=[2,3]	[p(T2,[2,3])] []	[p([1 T2],[1,2,3])] [p([1],[1,2,3])]	success
2.1	p([],L3).	T2=[], L3=[2,3]	[p(T4,[3])] []	[p([1,2 T4],[1,2,3])] [p([1,2],[1,2,3])]	success
2.2	p([H4 T4],[H4 R4]) :- p(T4,R4).	T2=[2 T4], H4=2, R4=[3]	[p(T6,[])] []	[p([1,2,3 T6],[1,2,3])] [p([1,2,3],[1,2,3])]	success
2.2.1	p([],L5).	T4=[], L5=[3]	[]	[]	
2.2.2	p([H6 T6],[H6 R6]) :- p(T6,R6).	T4=[3 T6], H6=3, R6=[]	[]	[]	
2.2.2.1	p([],L7).	T6=[], L7=[]	nothing	nothing	failure
2.2.2.2	p([H8 T8],[H8 R8]) :- p(T8,R8).	none			