CS181: Programming Languages
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Lab Assignment 4

1.   ?- max(3, 1, 1).
        yes

        max(X, Y, Z) :- X >=Y, !, Z = X.
        max(X, Y, Y).

        or

        max(X, Y, Z) :- X >= Y, !.
        max(X, Y, Y) :- X < Y.

2.   reverse([], R, R).
        reverse([H|T], R, L1) :-
                reverse(T, [H|R], L1).

3.   fac(0,1).
        fac(N,F) :-
                N > 0,
                fac(N,1,F).

        fac(1, F, F).
        fac(N, PP, F) :-
                N > 1,
                NPp is N * PP,
                M is N-1,
                fac(M, NPp, F).