CS181: Programming Languages
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Lab Assignment 3 Solutions

1.   sum([ ],0).
        sum([X | L], S) :-
                sum(L, SL),
                S is X + SL.

        last_element([E], E).
        last_element([_|T], E) :-
                last_element(T, E).

        last_earns(X, E) :-
                earns(Y, E),
                last_element(Y, X).

        family_total(X, S) :-
                bagof(M, last_earns(X, M), L),
                sum(L, S).

2.   min(A, B, A) :-
                A < B.
        min(A, B, B) :-
                A >= B.

        list_min(X, [X]).
        list_min(X, [H|T]) :-
                list_min(M, T),
                min(M, H, X).

        contains_min(L1, L2) :-
                member(X, L1),
                list_min(X, L2).