

RULES

(R1) reverse ([], []).

(R2) reverse ([x|xs], ys) :- reverse(xs, rs), append(rs, [x], ys).

(A1) append([], ys, ys).

(A2) append([x|xs], ys, [x|zs]) :- append(xs, ys, zs).

<reverse([], R) | true >

    / (R1)                      / (R2)  
    <[] | false >

<reverse([], rs), append(rs, [], R) | true >

    / (R1)  
    <append([], [], R) | true >

    / (R2)  
    <[] | false >

    / (A1)                      / (A2)  
    <[] | R = [] >            <[] | false >