

# Derivation Trees

- R1: `rev([], []).`
- R2: `rev([X|Xs], Ys) :-  
 rev(Xs, Rs), append(Rs, [X], Ys).`
- A1: `append([], Ys, Ys).`
- A2: `append([X|Xs], Ys, [X|Zs]) :-  
 append(Xs, Ys, Zs).`

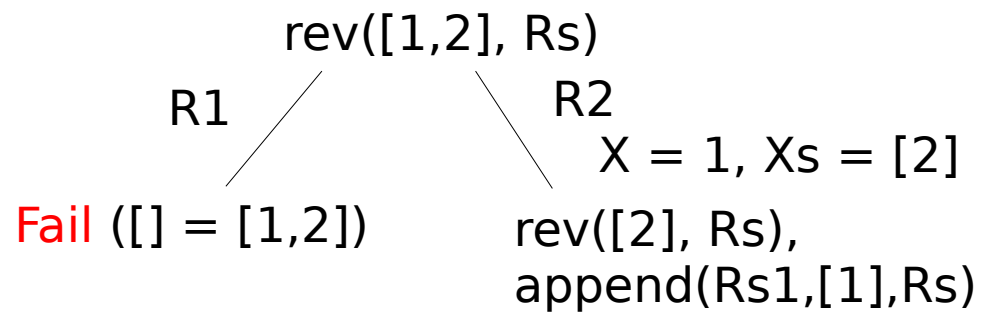
rev([1,2], Rs)

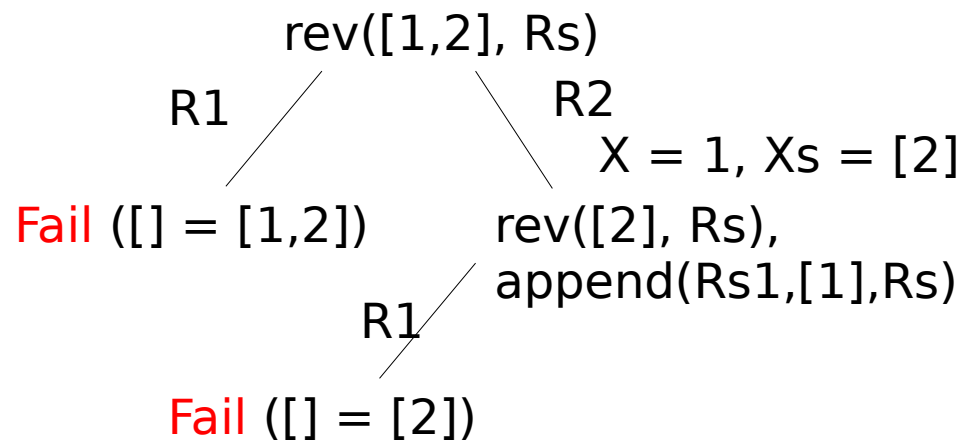
rev([1,2], Rs)

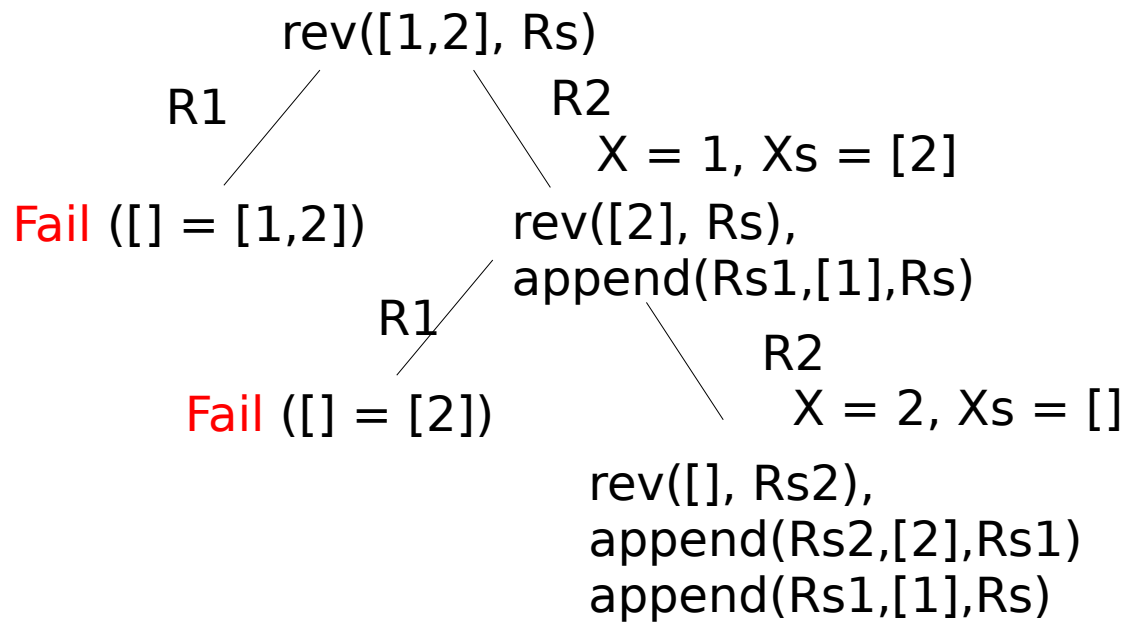
R1

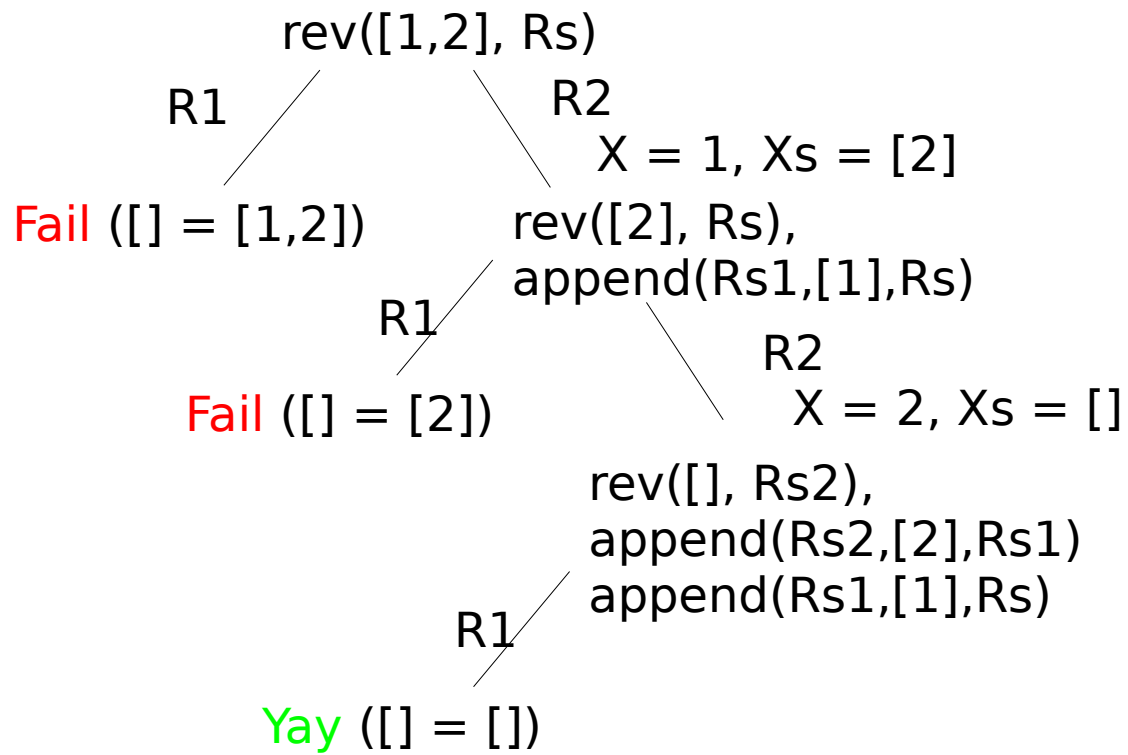


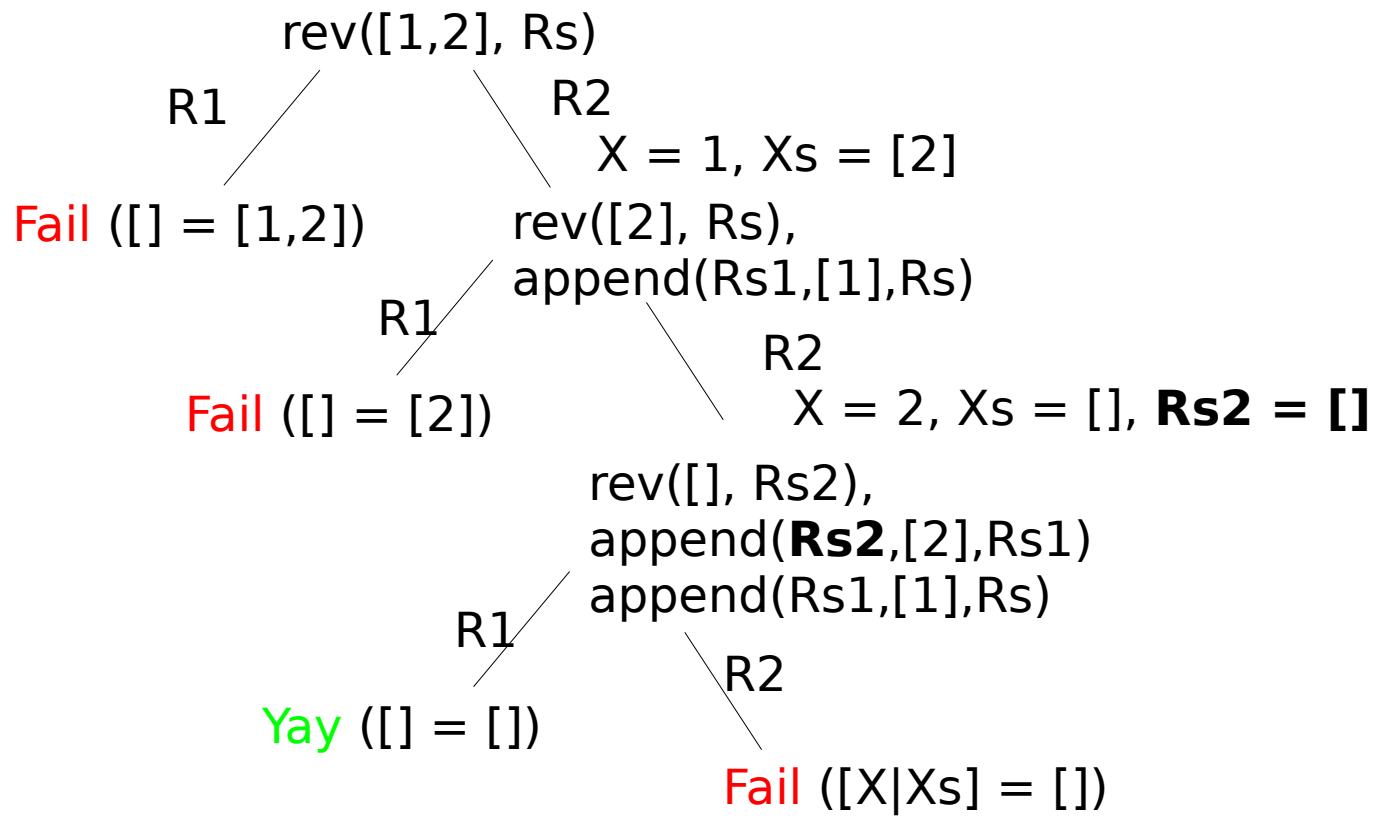
Fail ([] = [1,2])



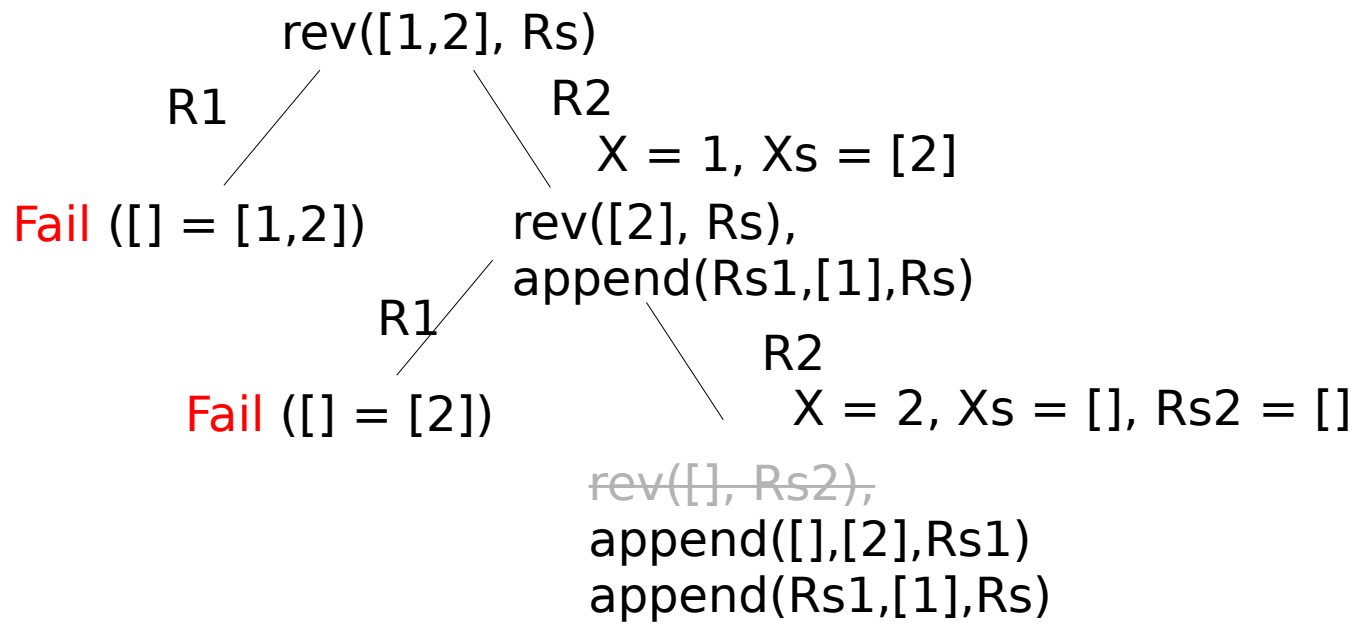


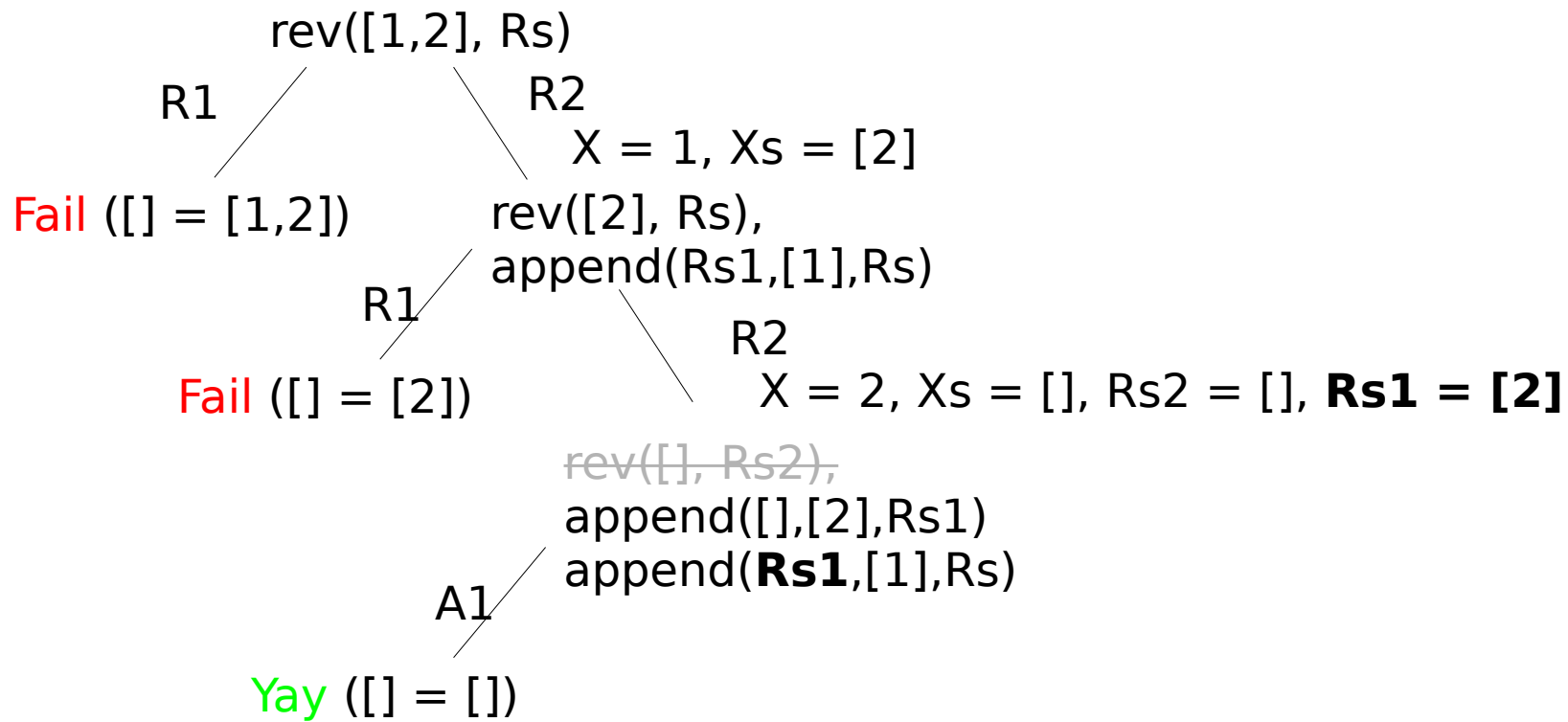


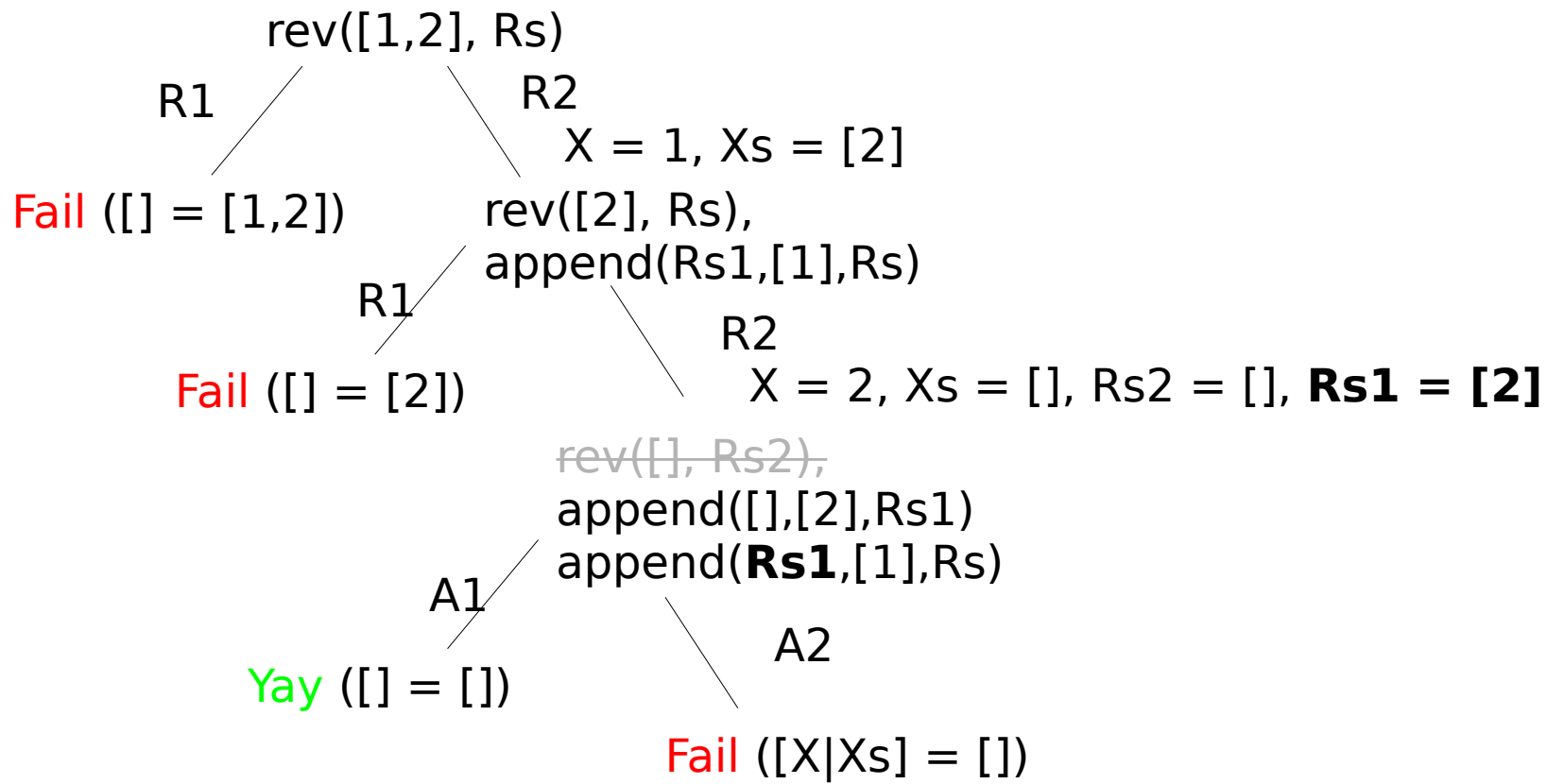


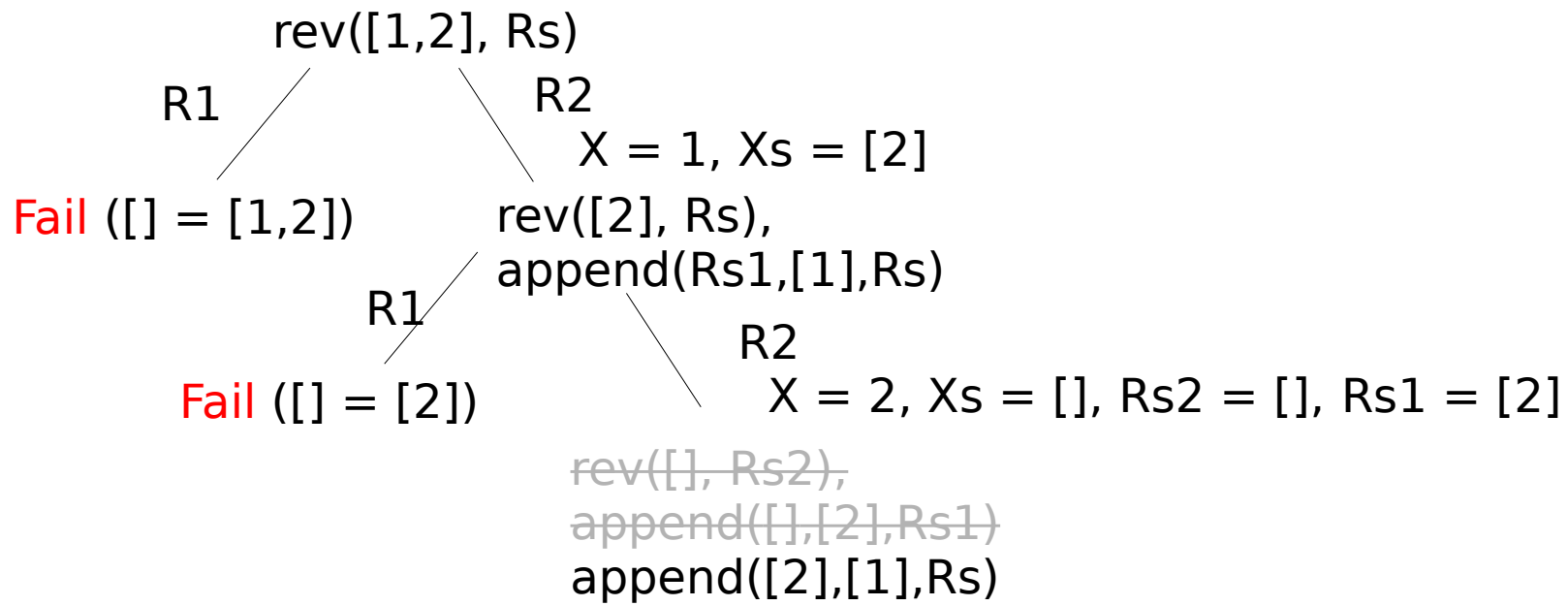


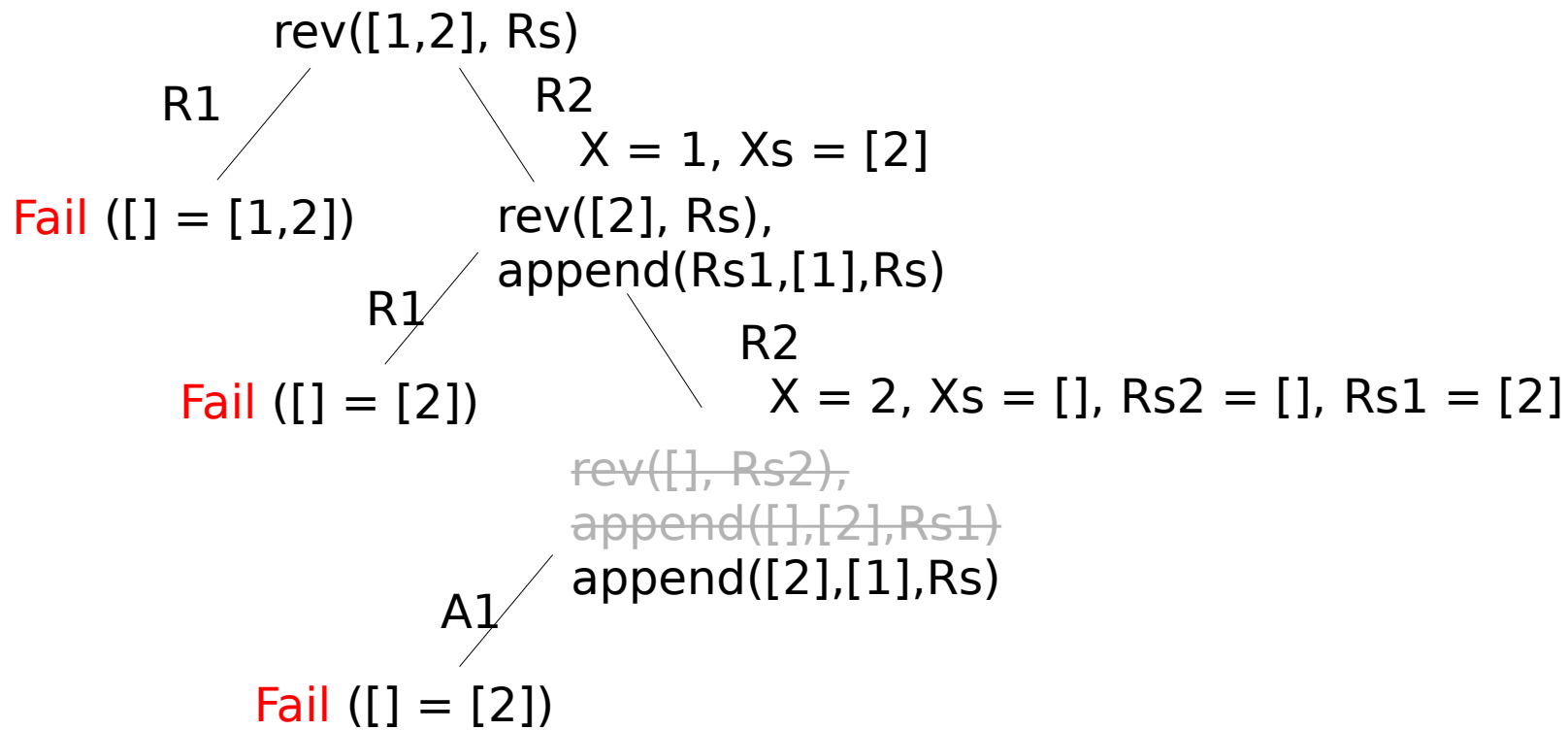


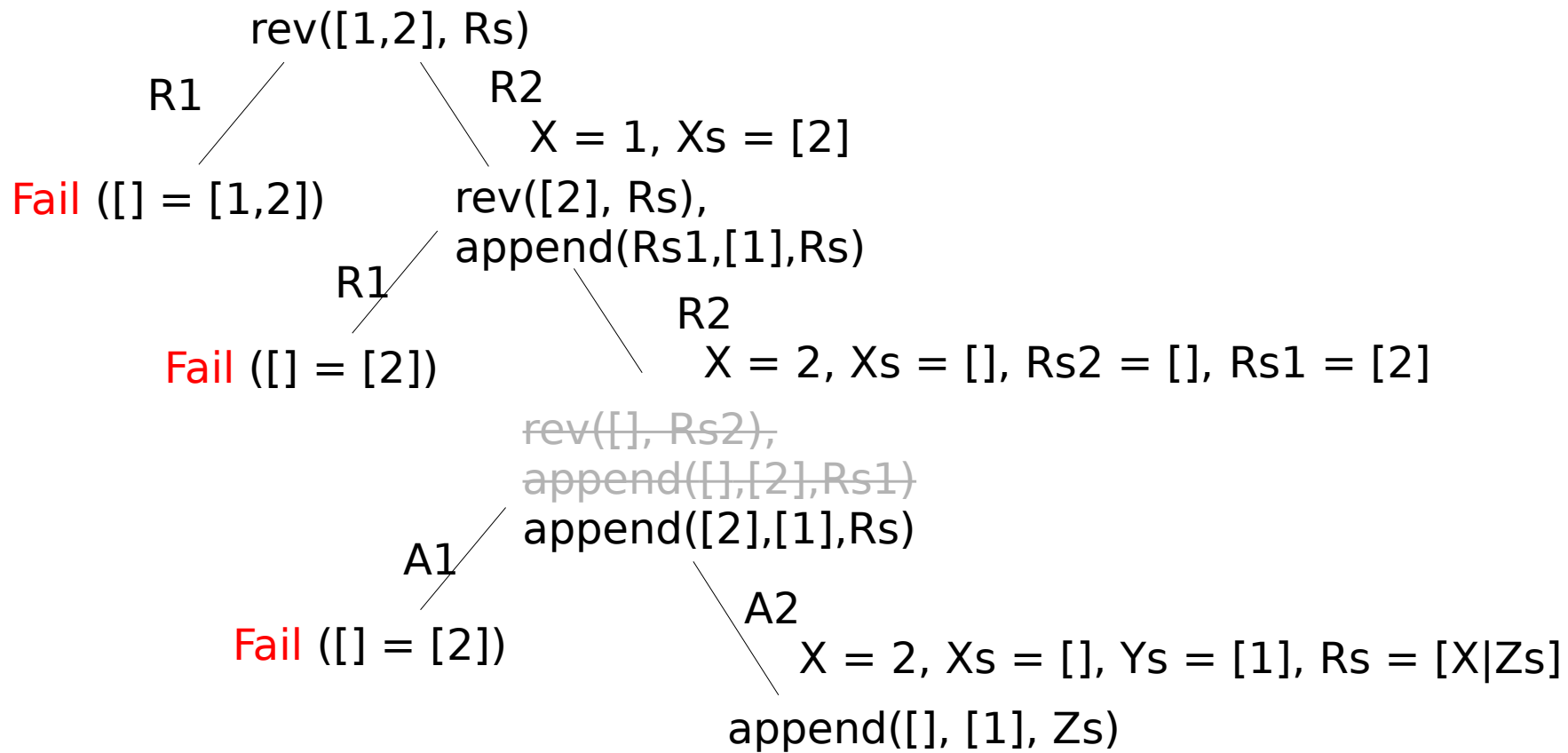


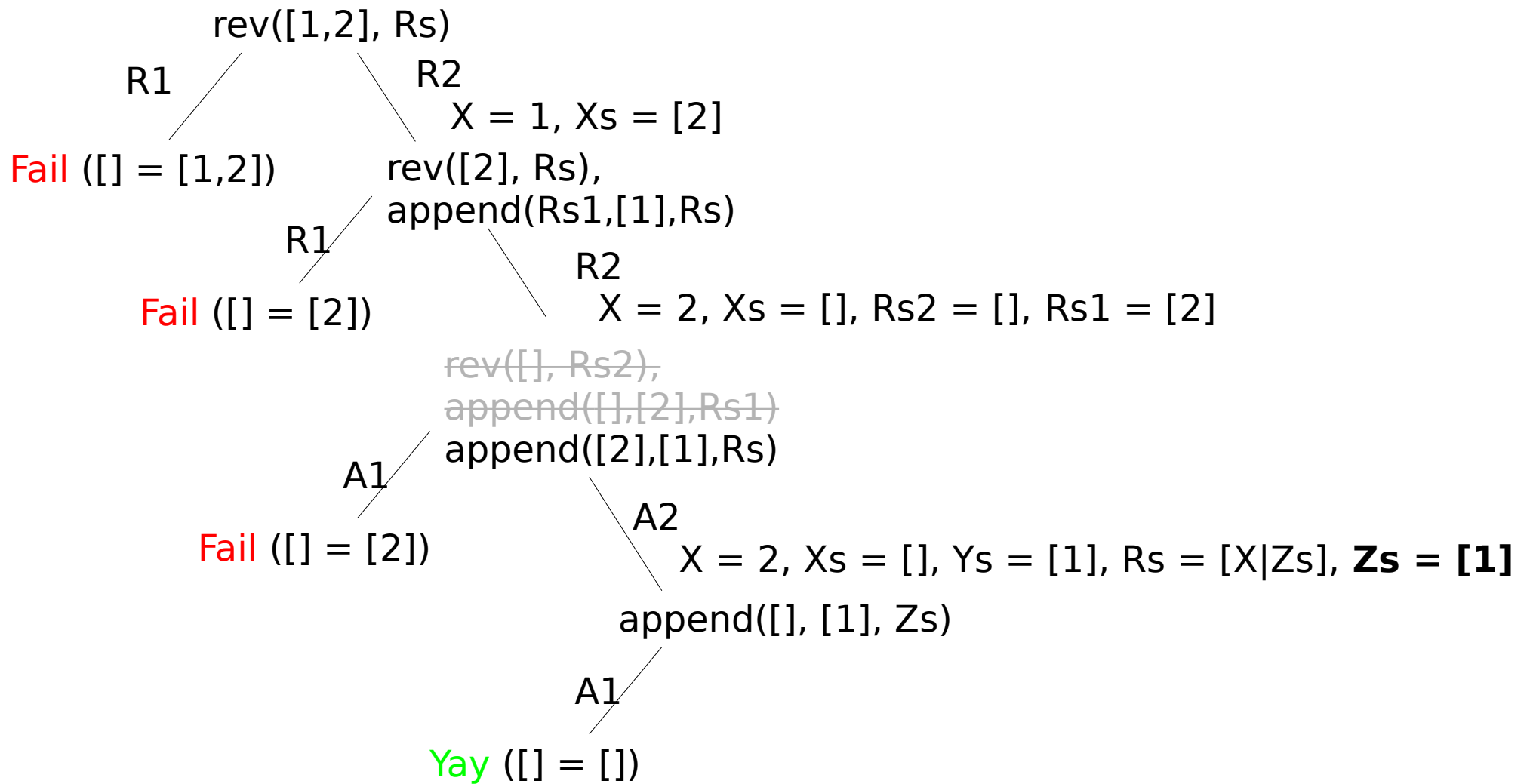


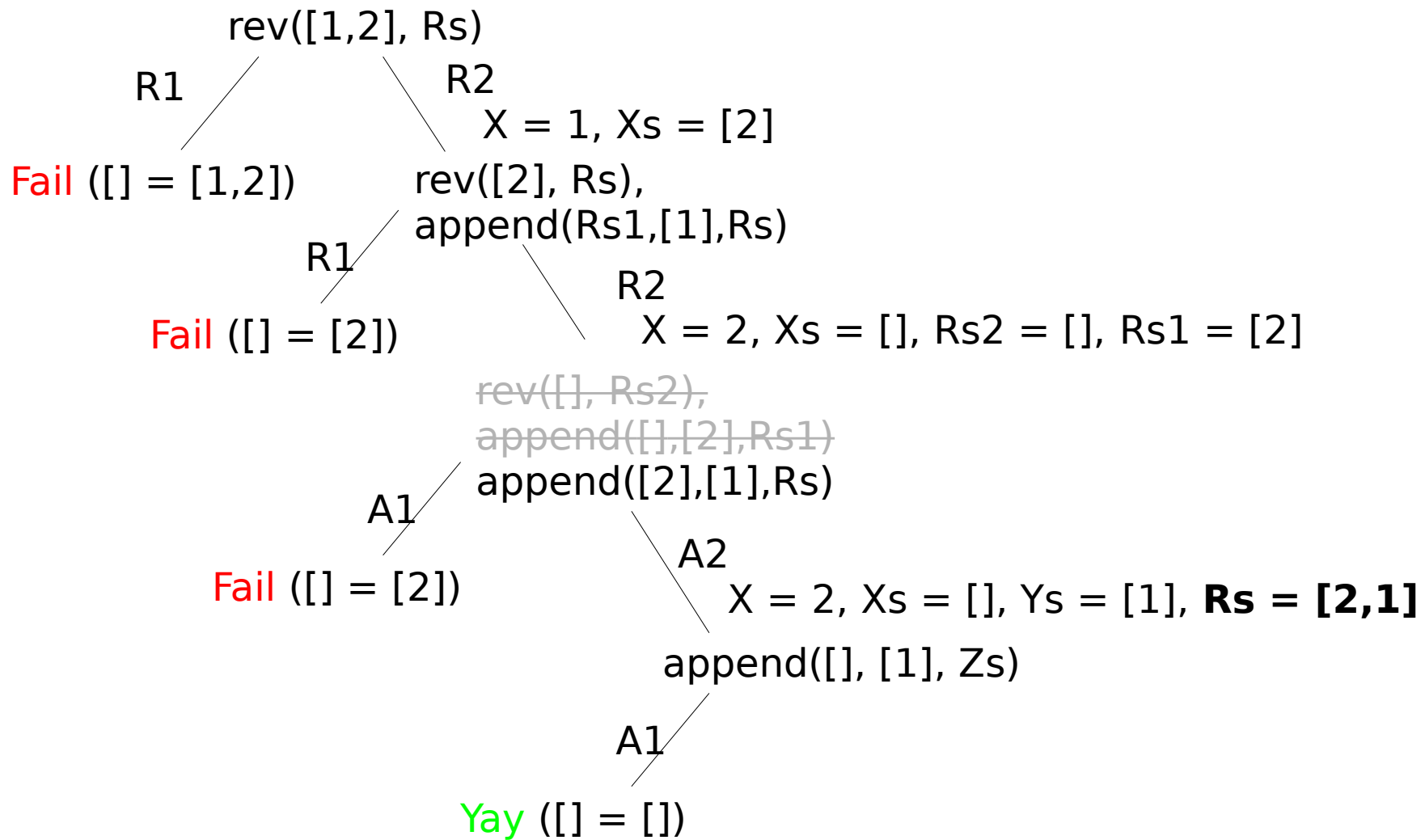






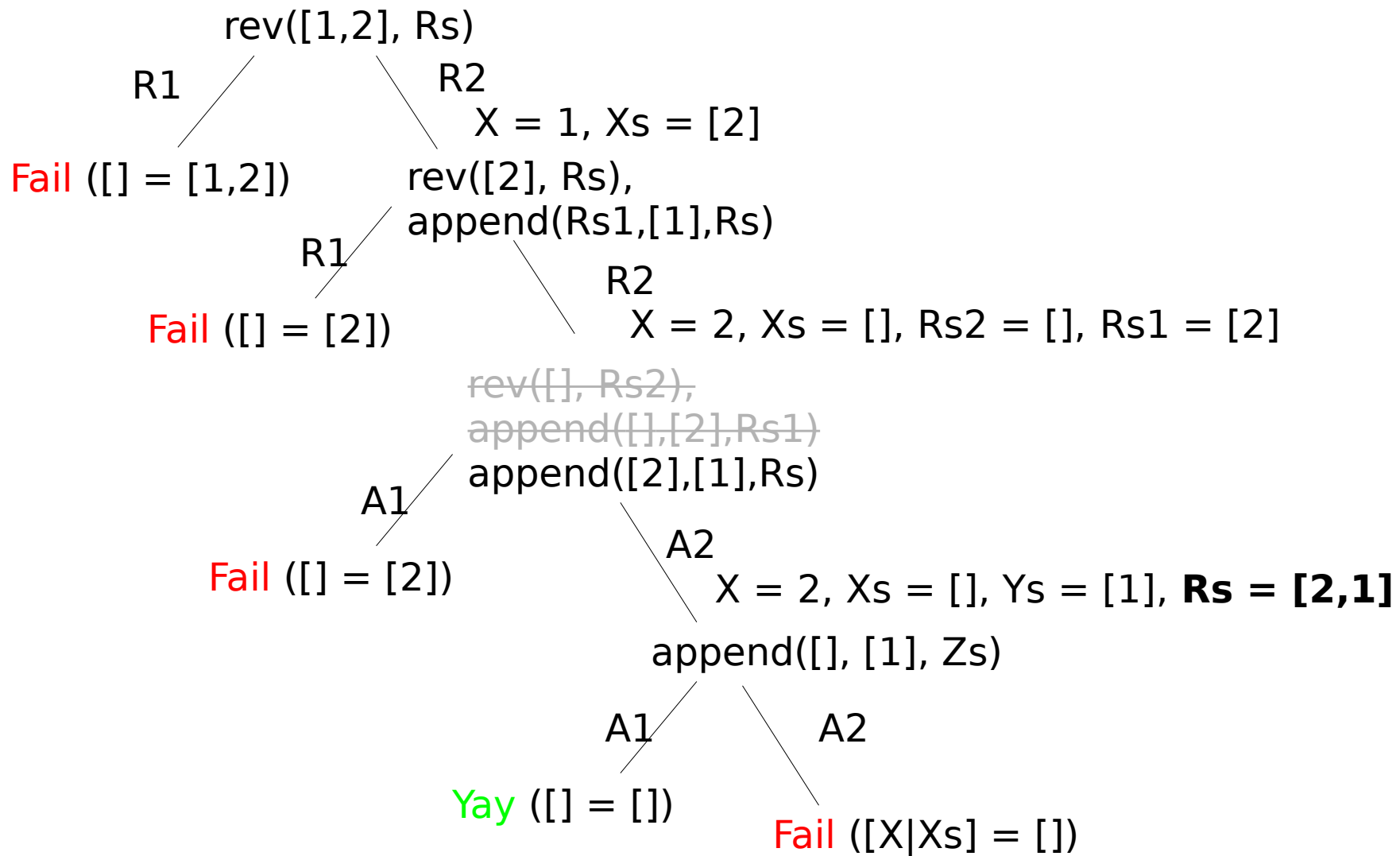




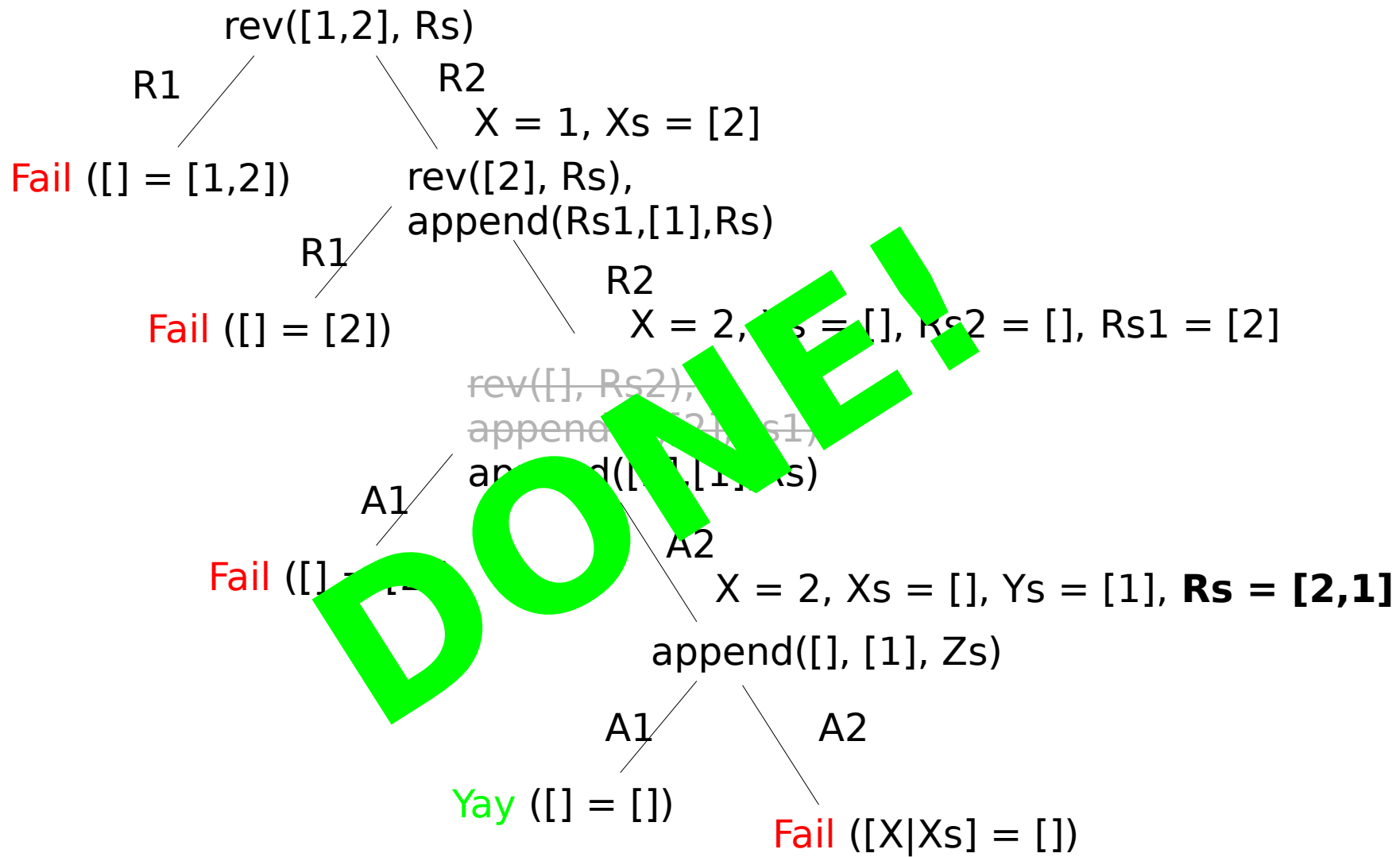


Rs = [2,1]





Rs = [2,1]



$\text{Rs} = [2,1]$