

Inference at * 2 2 2
of proof for Lemma adjacent-append:

1. T : Type
2. x : T
3. y : T
4. L_1 : T List
5. L_2 : T List
6. $0 < \|L_1\|$
7. $0 < \|L_2\|$
8. $x = \text{last}(L_1)$
9. $y = \text{hd}(L_2)$

$\vdash y = (L_1 @ L_2)[((\|L_1\| - 1)+1)]$
by ((RWO "select_append_back" 0)
CollapseTHEN (Auto')).

1:

$\vdash y = L_2[(((\|L_1\| - 1)+1) - \|L_1\|)]$