

Inference at * 1 1 2 1 1 2 2
of proof for Lemma adjacent-append:

1. $T : \text{Type}$
2. $x : T$
3. $y : T$
4. $L_1 : T \text{ List}$
5. $L_2 : T \text{ List}$
6. $i : \{0..(\|L_1 @ L_2\| - 1)^-\}$
7. $x = L_1[i]$
8. $y = L_2[0]$
9. $i < \|L_1\|$
10. $\neg(i < (\|L_1\| - 1))$

$\vdash y = \text{hd}(L_2)$
by ((DVar 'L2')
CollapseTHEN (((All Reduce)
CollapseTHEN (Auto')).)).