

Inference at * 2 1
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. $i : \{0..(\|L_1\| - 1)\}^-$
7. $x = L_1[i]$
8. $y = L_1[(i+1)]$

$\vdash \exists i : \{0..(\|L_1 @ L_2\| - 1)\}^- . (x = (L_1 @ L_2)[i] \ \& \ y = (L_1 @ L_2)[(i+1)])$
by (((InstConcl [i])
CollapseTHEN (Auto'))·)
CollapseTHEN (((
RWO "select_append_front" 0)
CollapseTHEN (Auto'))·).