

Inference at * 1 2 1 2 1 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. $i : \{0..((\|L_1\| + \|L_2\|) - 1)^-\}$
 7. $x = (L_1 @ L_2)[i]$
 8. $y = L_2[(i+1) - \|L_1\|]$
 9. $\neg(i < \|L_1\|)$
- $\vdash ((i - \|L_1\|) + 1) \sim ((i+1) - \|L_1\|)$
by Auto'

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