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

. . . . .equality. . . . . NILNIL

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

$\vdash ((i+1) - \|L_1\|) \sim 0$
by Auto'

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http://www.nuprl.org/FDLcontent/p0_963683_/p39_372879_{adjacent-append}1_1_2_1_1_2_1.html