Inference at $*$ 1 1
of proof for Lemma last-not-before:

. . . . .antecedent. . . . . NILNIL

1. T : Type
2. L : T List
3. $\neg(\uparrow\text{null}(L))$
4. no_repeats(T;L)
5. x : T
6. last(L) before $x \in L$
7. $\forall x$, y:T. x before $y \in L \Rightarrow (\neg(x = y))$
8. $\neg(\text{last}(L) = x)$

$\vdash(x \in L)$
by ((FLemma 'l_before_member' [-3])
CollapseTHEN (Auto$\cdot$))$\cdot$

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