Inference at $*$ 1 3 1 1
 of proof for Lemma last-not-before:

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. $\neg(\text{last}(L) = x)$
9. $x$ before last($L$) $\in L$
10. last($L$) before last($L$) $\in L$
11. $\neg(\text{last}(L) = \text{last}(L))$

$\vdash$False
 by ((D (-1))
 CollapseTHEN (Auto$\cdot$))$\cdot$

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