

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

1. $T : \text{Type}$
 2. $L : T \text{ List}$
 3. $\neg(\uparrow\text{null}(L))$
 4. $\text{no_repeats}(T;L)$
 5. $x : T$
 6. $\text{last}(L) \text{ before } x \in L$
 7. $\forall x, y:T. x \text{ before } y \in L \Rightarrow (\neg(x = y))$
 8. $\neg(\text{last}(L) = x)$
 9. $x \text{ before last}(L) \in L$
 10. $\text{last}(L) \text{ before last}(L) \in L$
 11. $\neg(\text{last}(L) = \text{last}(L))$
- $\vdash \text{False}$
by ((D (-1))
CollapseTHEN (Auto·)).