

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

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⊢∀T:Type, L:(T List).
  (¬(↑null(L))) ⇒ no_repeats(T;L) ⇒ (∀x:T. last(L) before x ∈ L ⇔ False)
  by (((Auto·)
  CollapseTHEN (((InstLemma 'no_repeats_iff' [T;L])
  THENM (((
    ThinTrivial)
    CollapseTHEN (Thin (-2))))·)·)
  CollapseTHENA (Auto·))·)·

  CollapseTHEN (((FHyp (-1) [-2])
  CollapseTHENA (Auto·))·)·
```

1:

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. $\neg(\text{last}(L) = x)$
- ⊢ False