

Inference at \* 1 2  
of proof for Lemma last-not-before:

...antecedent... NILNIL

1.  $T$  : Type
  2.  $L$  :  $T$  List
  3.  $\neg(\uparrow\text{null}(L))$
  4.  $\text{no\_repeats}(T;L)$
  5.  $x : T$
  6.  $\text{last}(L)$  before  $x \in L$
  7.  $\forall x, y:T. x$  before  $y \in L \Rightarrow (\neg(x = y))$
  8.  $\neg(\text{last}(L) = x)$
- $\vdash \neg(x = \text{last}(L))$   
by ParallelOp (-1)

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