Inference at * 2 1 2 1
 of proof for Lemma before_last:

. . . . .assertion. . . . . NILNIL

1. T : Type
2. T List
3. u : T
4. v : T List
5. $\forall x{:}T.\ (x \in v) \Rightarrow (\neg(x = \text{last}(v))) \Rightarrow x$ before last$(v) \in v$
6. x : T
7. $x = u$
8. $\neg(x = \text{last}([u\ /\ v]))$

$\vdash \neg(\uparrow\text{null}(v))$
 by ((((((((((((ParallelOp (-1))
 CollapseTHEN (RW assert_pushdownC (-1)))·)

 CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 4:n)) (first_tok
 :t) inil_term)))·)
 CollapseTHEN (HypSubst (-1) 0))·)
 CollapseTHEN (Reduce 0))·)

 CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t
) inil_term)))·)
 CollapseTHEN (Try ((((Unfold ‘last‘ 0)
 CollapseTHEN (Reduce 0))·)

 CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 4:n)) (first_tok :t
) inil_term)))·))·

 1:

 8. $v = []$
 9. z : T List
 $\vdash \neg(\uparrow\text{null}([u\ /\ z]))$
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