Inference at $*$ 2 1 4 1
 of proof for Lemma before_last:

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 $\text{last}(v) \in v$
6. x : T
7. $(x \in v)$
8. $\neg(x = \text{last}([u\ /\ v]))$

$\vdash \neg(x = \text{last}(v))$

 by ((RWO "last_cons" (-1))
 CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n
 ),(first_nat 3:n)) (first_tok :t) inil_term)))·

 1: . . . . .rewrite subgoal. . . . . NILNIL

 $\vdash \neg(\uparrow\text{null}(v))$

 .