

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

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

$\vdash \text{False}$
by ((RWO "nil_member" (-3))
CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n
), (first_nat 4:n)) (first_tok :t) inil_term)))).