Inference at $*$
of proof for Lemma last_cons:

$\vdash \forall T$:Type, L:(T List), x:T. $(\neg(\uparrow \text{null}(L))) \Rightarrow (\text{last}([x\ /\ L]) = \text{last}(L))$
by ((((((Unfold ‘last‘ 0)
CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n
),(first_nat 3:n)) (first_tok :t) inil_term)))·)
CollapseTHEN (Reduce 0))·)

CollapseTHEN (Assert $\|L\| > 0$
THENL [(((((RW assert_pushdownC (-1))

CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok
:t) inil_term)))·)
CollapseTHEN (Easy))·;
((RWO ”select_cons_tl” 0)

CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n)) (first_tok :t
) inil_term)))·]))·

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http://www.nuprl.org/FDLcontent/p0_963683_/p122_92590_{last_cons}.html