

Inference at * 1 1
of proof for Lemma l.before_antisymmetry:

....assertion.... NILNIL

1. T : Type
 2. l : T List
 3. x : T
 4. y : T
 5. $\text{no_repeats}(T;l)$
 6. $[x; y] \subseteq l$
 7. $[y; x] \subseteq l$
- $\vdash [x; x] \subseteq l$

by ((Using ['L2', $[x; y; x]$] (BackThruLemma 'sublist_transitivity'))

CollapseTHEN (

(Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))

1:

$\vdash [x; x] \subseteq [x; y; x]$

2:

$\vdash [x; y; x] \subseteq l$

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