

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

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

$\vdash [x; z] \subseteq l$
by ((Using ['L2', $[x; y; z]$] (BackThruLemma 'sublist_transitivity'))
CollapseTHEN (
 (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))

1:

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

2:

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

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