

Inference at * 1 1 1 0
of proof for Lemma l.before_antisymmetry:

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

1:wf..... NILNIL

$\vdash T \in \text{Type}$

2:wf..... NILNIL

$\vdash x \in T$

3:wf..... NILNIL

$\vdash [x] \in (T \text{ List})$

4:wf..... NILNIL

$\vdash [y; x] \in (T \text{ List})$

5:

$\vdash (x = x \ \& \ [x] \subseteq [y; x]) \vee [x; x] \subseteq [y; x]$

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