

Inference at * 1 1 2 0
of proof for Lemma 1.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. $[y; x] \subseteq l$
- $\vdash [x; y; x] \subseteq l$
by PERMUTE{1:n, 2:n, 2:n, 3:n, 4:n, 5:n, 6:n, 7:n, 8:n}

1:wf..... NILNIL

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

2:wf..... NILNIL

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

3:wf..... NILNIL

$\vdash l \in (T \text{ List})$

4:wf..... NILNIL

$\vdash y \in T$

5:antecedent..... NILNIL

$\vdash \text{no_repeats}(T;l)$

6:

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

7:antecedent..... NILNIL

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

8:

8. $[x] @ [y; x] \subseteq l$

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

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