

Inference at * 1 1 0
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. $[y; z] \subseteq l$
- $\vdash [x; z] \subseteq [x; y; z]$
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

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

4:wf..... NILNIL

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

5:

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

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