Inference at $*$ 1 1 0
of proof for Lemma l_before_transitivity:

1. T : Type
2. l : T List
3. x : T
4. y : T
5. z : T
6. 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

$\vdash$ $T \in$ Type

2: . . . . .wf. . . . . NILNIL

$\vdash$ $x \in T$

3: . . . . .wf. . . . . NILNIL

$\vdash$ $[z] \in (T$ List)

4: . . . . .wf. . . . . NILNIL

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

5:

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

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