

Inference at *
of proof for Lemma l_before_transitivity:

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⊢∀T:Type, l:(T List), x, y, z:T.  
no_repeats(T;l) ⇒ x before y ∈ l ⇒ y before z ∈ l ⇒ x before z ∈ l  
by ((Unfolds "l_before" 0)  
CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n  
) , (first_nat 3:n) (first_tok :t) inil_term))))).
```

1:

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. $[y; z] \subseteq l$
- ⊢ $[x; z] \subseteq l$