

Inference at *
of proof for Lemma fseg_transitivity:

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⊢∀T:Type, l1, l2, l3:(T List). fseg(T;l1;l2) ⇒ fseg(T;l2;l3) ⇒ fseg(T;l1;l3)
  by (((((((Unfold 'fseg' 0)
    CollapseTHEN (Auto'))·)
    CollapseTHEN (D (-1)·)·)·)
    CollapseTHEN (ExRepD·)·)·)
  CollapseTHEN (((WeakSubstFor l3 0)
    CollapseTHEN (
      WeakSubstFor l2 0))·)·)·
```

1:

1. $T : \text{Type}$
 2. $l_1 : T \text{ List}$
 3. $l_2 : T \text{ List}$
 4. $l_3 : T \text{ List}$
 5. $L_1 : T \text{ List}$
 6. $l_2 = (L_1 @ l_1)$
 7. $L : T \text{ List}$
 8. $l_3 = (L @ l_2)$
- ⊢ $\exists L@_0:T \text{ List}. ((L @ L_1 @ l_1) = (L@_0 @ l_1))$