

Inference at * 1 1 2 1
of proof for Lemma adjacent-append:

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1. T : Type
2. x : T
3. y : T
4. L1 : T List
5. L2 : T List
6. i : {0..(||L1 @ L2|| - 1)}
7. x = (L1 @ L2)[i]
8. y = (L1 @ L2)[(i+1)]
9. i < ||L1||
10. ¬(i < (||L1|| - 1))
⊢ (0 < ||L1||) & (0 < ||L2||) & x = last(L1) & y = hd(L2)
  by (((RWO "select_append_front" (-4))
    CollapseTHEN (Auto'))·)
  CollapseTHEN (((
    RWO "select_append_back" (-3))
    CollapseTHEN (Auto'))·).

```

1:

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7. x = L1[i]
8. y = L2[(i+1) - ||L1||]
9. i < ||L1||
10. ¬(i < (||L1|| - 1))
⊢ (0 < ||L1||) & (0 < ||L2||) & x = last(L1) & y = hd(L2)
.

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