

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

```

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||)
⊢ x = L2[(i - ||L1||)]
  by ((RWO "select_append_back" (-3))
    CollapseTHEN (((Auto')
    CollapseTHEN (((
      All ArithSimp)
    CollapseTHEN (Auto·))·))·).

```