

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

1. $T : \text{Type}$
2. $x : T$
3. $y : T$
4. $u : T$
5. $L : T \text{ List}$
6. $i : \{0..(\|L\|+1) - 1\}^-$
7. $x = [u / L][i]$
8. $y = [u / L][(i+1)]$
9. $0 < \|L\|$
10. $\neg(i = 0)$

$\vdash (x = u \ \& \ y = \text{hd}(L)) \vee (\exists i:\{0..(\|L\| - 1)\}^-. (x = L[i] \ \& \ y = L[(i+1)]))$
by (((OrRight
CollapseTHEN (Auto·))·)
CollapseTHEN ((InstConcl [i - 1])

CollapseTHEN (Auto'·))·).

1:

$\vdash x = L[(i - 1)]$

2:

$\vdash y = L[((i - 1)+1)]$

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