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

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

$\vdash \exists i$:{0..(($\|L\|$+1) - 1)$^-$}. ($x = [u$ / $L][i]$ & $y = [u$ / $L][(i+1)]$)

by ((((ExRepD·)
CollapseTHEN (((InstConcl [i+1])
CollapseTHEN (Auto’))·))·)

CollapseTHEN (((RWO ”select_cons_tl” 0)
CollapseTHEN (((Auto’)
CollapseTHEN (((
All ArithSimp)
CollapseTHEN (Auto·))·))·))·))·

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http://www.nuprl.org/FDLcontent/p0_963683_/p39_371074_{adjacent-cons}2_2.html