Inference at $*$ 1 1
 of proof for Lemma adjacent-before:

1. T : Type
2. L : T List
3. x : T
4. y : T
5. i : $\{0..(\|L\| - 1)^-\}$
6. $x = L[i]$
7. $y = L[(i+1)]$
8. $i@_0$: $\{0..1^-\}$

$\vdash$if ($i@_0 =_0 0$) then i else $i+1$ fi $<$ if ($i@_0+1 =_0 0$) then i else $i+1$ fi
 by InteriorProof (if (((first_nat 2:n)) = 0) then (Repeat (((SplitOnConclITE)

CollapseTHEN (Auto'))·)) else (RepeatFor (first_nat 2:n) (((
SplitOnConclITE)
CollapseTHEN (Auto'))·)))·

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http://www.nuprl.org/FDLcontent/p0_963683_/p39_377860_{adjacent-before}1_1.html