

Inference at * 1 1 1
of proof for Lemma nth_tl_is_fseg:

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1.  $T : \text{Type}$ 
2.  $L_1 : T \text{ List}$ 
3.  $L : T \text{ List}$ 
 $\vdash L_1 = \text{nth\_tl}(\|L\|; L @ L_1)$ 
  by (((ListInd 3)
    CollapseTHEN (Reduce 0)).)
    CollapseTHEN (Auto.)).

1:

4.  $u : T$ 
5.  $v : T \text{ List}$ 
6.  $L_1 = \text{nth\_tl}(\|v\|; v @ L_1)$ 
 $\vdash L_1 = \text{nth\_tl}(\|v\|+1; [u / (v @ L_1)])$ 
.
```