Inference at $*$ 2 1 1
of proof for Lemma nth_tl_append:

1. T : Type
2. T List
3. T
4. v : T List
5. bs : T List
6. nth_tl($\|v\|$;v @ bs) $\sim$ bs
7. $0 < (\|v\|+1)$

$\vdash$nth_tl((($\|v\|$+1) - 1;v @ bs) $\sim$ bs
by ((NthHypSq (-2))
CollapseTHEN (ProveSqEq))·

1:

$\vdash$ ((($\|v\|$+1) - 1) $\sim$ $\|v\|$
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http://www.nuprl.org/FDLcontent/p0_963683_/p28_1028371_{nth_tl_append}2_1_1.html