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

.....falsecase..... NILNIL

1. T : Type
2. n : $\mathbb{Z}$
3. $0 < n$
4. $\forall x{:}T$, $L{:}(T$ List). $(x \in \text{nth_tl}(n - 1;L)) \Rightarrow (x \in L)$
5. T
6. T List
7. n_1 : $\mathbb{Z}$
8. $0 < n_1$
9. $\text{nth_tl}(n_1 - 1;[]) = []$
10. $0 < n_1$

$\vdash \text{nth_tl}(n_1 - 1;\text{tl}([])) = []$
by ((Reduce 0)
CollapseTHEN (Auto$\cdot$))$\cdot$

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http://www.nuprl.org/FDLcontent/p0_963683_/p28_783620_{member_nth_tl}2_1_1_1_1_1.html