

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

....upcase.... NILNIL

1. $T : \text{Type}$
2. $n : \mathbb{Z}$
3. $0 < n$
4. $\forall x:T, L:(T \text{ List}). (x \in \text{nth_tl}(n - 1;L)) \Rightarrow (x \in L)$
5. T
6. $T \text{ List}$
7. $n_1 : \mathbb{Z}$
8. $0 < n_1$
9. $\text{nth_tl}(n_1 - 1;[]) = []$
 $\vdash \text{nth_tl}(n_1;[]) = []$
by ((RecUnfold 'nth_tl' 0)
CollapseTHEN (((if (0
) =0 then SplitOnConclITE else SplitOnHypITE (0)).)
CollapseTHEN (Auto.)).).

1:falsecase.... NILNIL

10. $0 < n_1$
 $\vdash \text{nth_tl}(n_1 - 1;\text{tl}([])) = []$

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