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

.....upcase..... NILNIL

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

$\vdash$nth_tl(n_1;[]) = []
 by ((RecUnfold ‘nth_tl‘ 0)
 CollapseTHEN ((((if (0
) =0 then SplitOnConclITE else SplitOnHypITE (0))·)
 CollapseTHEN (Auto·))·))·

 1: .....falsecase..... NILNIL

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