

Inference at \* 1  
of proof for Lemma member\_nth\_tl:

....basecase.... NILNIL

1.  $T$  : Type  
 $\vdash \forall x:T, L:(T \text{ List}). (x \in \text{nth\_tl}(0;L)) \Rightarrow (x \in L)$   
by ((Reduce 0)  
CollapseTHEN (Auto.)).