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

. . . . .assertion. . . . . 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

$\vdash \forall n$:$\mathbb{N}$. nth_tl($n$;[]) = []
by ((InductionOnNat)
CollapseTHEN (((Reduce 0)
CollapseTHEN (Auto$\cdot$))$\cdot$))$\cdot$

1: . . . . .upcase. . . . . NILNIL

7. $n_1$ : $\mathbb{Z}$
8. $0 < n_1$
9. nth_tl($n_1$ - 1;[]) = []

$\vdash$ nth_tl($n_1$;[]) = []

.