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

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. x : T
6. T List

$\vdash (x \in \text{nth_tl}(n;[])) \Rightarrow (x \in [])$
 by ((Subst' nth_tl(n;[]) = [] (0)$\cdot$)
 CollapseTHEN (Auto$\cdot$))$\cdot$

1: . . . . .equality. . . . . NILNIL

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

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