Inference at $*$ 2 1 1 2
 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. T
6. T List
7. $\forall n{:}\mathbb{N}$. nth_tl$(n;[]) = []$

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

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