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

. . . . .equality. . . . . NILNIL

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

$\vdash$ nth_tl(n;[]) = []
by Assert $\forall n{:}\mathbb{N}$. nth_tl(n;[]) = []

1: . . . . .assertion. . . . . NILNIL

$\vdash \forall n{:}\mathbb{N}$. nth_tl($n$;[]) = []

2:

7. $\forall n{:}\mathbb{N}$. nth_tl(n;[]) = []

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

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http://www.nuprl.org/FDLcontent/p0_963683_/p28_783620_{member_nth_tl}2_1_1.html