Inference at $*$ 2 2 2 1 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
7. u : T
8. v : T List
9. $(x \in \text{nth_tl}(n;v)) \Rightarrow (x \in v)$
10. $0 < n$
11. $(x \in \text{nth_tl}(n$ - 1;$v))$

$\vdash (x = u) \vee (x \in v)$
 by ((OrRight)
 CollapseTHEN (MaAuto$\cdot$))$\cdot$

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http://www.nuprl.org/FDLcontent/p0_963683_/p28_783620_{member_nth_tl}2_2_2_1_1.html