Inference at $*$
of proof for Lemma member-exists2:

$\vdash \forall T$:Type, $L$:($T$ List). $(\exists x{:}T.\ (x \in L)) \iff (0 < \|L\|)$
by InteriorProof ((((UnivCD)
THENM (((RWO "member-exists" 0)
THENM (
RWO "length_of_not_nil" 0))$\cdot$))$\cdot$)
CollapseTHEN (Auto$\cdot$))$\cdot$

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http://www.nuprl.org/FDLcontent/p0_963683_/p39_340365_{member-exists2}.html