

Inference at \* 2  
of proof for Lemma member-exists:

1.  $T : \text{Type}$
  2.  $L : T \text{ List}$
  3.  $\neg(L = [])$
- $\vdash \exists x:T. (x \in L)$   
by ((BLemma 'member\_exists')  
CollapseTHEN (Auto.)).