```
member_exists  THM

⊢  ∀T:Type, L:T List. ¬L = nil ⇒ (∃x:T. (x ∈ L))
  by Unfold ‘l_member‘ 0 THEN Auto THEN
AssertBY 0<||L||
      Easy THEN InstConcl [L[0];0] THEN Auto
END
```