```
null_member  THM

⊢  ∀T:Type, L:T List, x:T. null(L) ⇒ ¬(x ∈ L)
| by RW assert_pushdownC 0 THEN Auto THEN HypSubst (-1) 0 THEN Auto
|
1. T : Type
2. L : T List
3. x : T
4. L = nil
⊢  ¬(x ∈ nil)  by RWO "nil_member" 0 THEN Auto THEN SimpConcl
END
```