```
iseg_member  THM

⊢  ∀T:Type, l1,l2:T List, x:T. l1 ≤ l2 ⇒ (x ∈ l1) ⇒ (x ∈ l2)
| by RWW "iseg_select" 0 THENM Unfold `l_member` 0 THEN Auto
|
1. T : Type
2. l1 : T List
3. l2 : T List
4. x : T
5. ||l1||≤||l2|| & (∀i:ℕ. i<||l1|| ⇒ l1[i] = l2[i])
6. ∃i:ℕ. i<||l1|| & x = l1[i]
⊢  ∃i:ℕ. i<||l2|| & x = l2[i]  by ExRepD THEN InstConcl [i] THEN Auto
|
1. T : Type
2. l1 : T List
3. l2 : T List
4. x : T
5. ||l1||≤||l2||
6. ∀i:ℕ. i<||l1|| ⇒ l1[i] = l2[i]
7. i : ℕ
8. i<||l1||
9. x = l1[i]
⊢  x = l2[i]  by WeakSubstFor x 0 THEN Easy
END
```