```
member_tl  THM

⊢  ∀T:Type, as:T List, x:T. 0<||as|| ⇒ (x ∈ tl(as)) ⇒ (x ∈ as)
| by Auto THEN ParallelOp (-1) THEN ExRepD
|
1. T : Type
2. as : T List
3. x : T
4. 0<||as||
5. i : ℕ
6. i<||tl(as)||
7. x = tl(as)[i]
⊢  ∃i:ℕ. i<||as|| & x = as[i]
  by RWO "length_tl" (-2) THENA Auto
THEN InstConcl [i+1] THEN Auto'

THEN AllHyps (RWO "select_tl") THEN Auto'
END
```