```
reject_cons_tl  THM

⊢  ∀a:T, as:T List, i:ℤ. 0<i ⇒ i≤||as|| ⇒ (a.as)\[i] = a.as\[i-1]
| by UnivCD
|
1. T : Type
2. a : T
3. as : T List
4. i : ℤ
5. 0<i
6. i≤||as||
⊢  (a.as)\[i] = a.as\[i-1]
| by RWN 1 (RecUnfoldTopC ‘reject‘) 0 THEN SplitOnConclITE
|
|\
| .....truecase .....
| 7. i≤0
| ⊢  tl((a.as)) = a.as\[i-1]  by Arith
|
.\
. .....falsecase .....
. 7. 0<i
. ⊢  (Case of a.as; nil → nil ; a’.as’ → a’.as’\[i-1]) = a.as\[i-1]
. | by AbReduce 0
. |
. ⊢  a.as\[i-1] = a.as\[i-1]  by Auto
END
```