```
select_cons_hd  THM

⊢  ∀a:T, as:T List, i:ℤ. i≤0 ⇒ (a.as)[i] = a
| by Unfold ‘select‘ 0 THEN UnivCD
|
1. T : Type
2. a : T
3. as : T List
4. i : ℤ
5. i≤0
⊢  hd(nth_tl(i;a.as)) = a  by AbReduce 0
|
⊢  hd(nth_tl(i;a.as)) = a
| by RecUnfold ‘nth_tl‘ 0 THEN SplitOnConclITE
|
.....truecase .....
6. i≤0
⊢  hd((a.as)) = a  by AbReduce 0
END
```