```
hd_mem  THM

⊢  ∀L:T*. ||L||≥1 ⇒ mem_f(T;hd(L);L)
| by (Analyze 0) THEN (Analyze 0) THEN (ListInd 2) THEN (Reduce 0)
|
1. T : Type
2. T*
3. u : T
4. v : T*
5. ||v||≥1 ⇒ mem_f(T;hd(v);v)
6. ||v||+1≥1
⊢  u = u ∨ mem_f(T;u;v)  by Sel 1 (Analyze 0)
END
```