```
hd_wf  THM

⊢  ∀A:Type, l:A List. ||l||≥1 ⇒ hd(l) ∈ A  by UnivCD
|
1. A : Type
2. l : A List
3. ||l||≥1
⊢  hd(l) ∈ A  by (ListInd 2) THEN (Analyze 0)
|
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| 3. ||nil||≥1
| ⊢  hd(nil) ∈ A  by Reduce 3
|
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. 3. u : A
. 4. v : A List
. 5. ||v||≥1 ⇒ hd(v) ∈ A
. 6. ||u.v||≥1
. ⊢  hd((u.v)) ∈ A  by Reduce 0
END
```