```
length_tl  THM

⊢  ∀l:A List. ||l||≥1 ⇒ ||tl(l)|| = ||l||-1
| by RepeatMFor 2 (Analyze 0)
|
1. A : Type
2. l : A List
⊢  ||l||≥1 ⇒ ||tl(l)|| = ||l||-1  by Analyze 2
|
|\
| ⊢  ||nil||≥1 ⇒ ||tl(nil)|| = ||nil||-1
| | by (Analyze 0) THEN (AbReduce -1)
| |
| 3. 0≥1
| ⊢  ||tl(nil)|| = ||nil||-1  by Assert False
|
.\
. 3. u : A
. 4. v : A List
. ⊢  ||u.v||≥1 ⇒ ||tl((u.v))|| = ||u.v||-1  by AbReduce 0
. |
. ⊢  ||v||+1≥1 ⇒ ||v|| = ||v||+1-1  by Auto
END
```