```
pos_length  THM

⊢  ∀l:A List. ¬l = nil ⇒ ||l||≥1
| by (RepeatMFor 2 (Analyze 0)) THEN (Analyze 2)
|
|\
| 1. A : Type
| 2. A List
| ⊢  ¬nil = nil ⇒ ||nil||≥1  by (Analyze 0) THEN (Analyze -1)
|
.\
. 1. A : Type
. 2. A List
. 3. u : A
. 4. v : A List
. ⊢  ¬u.v = nil ⇒ ||u.v||≥1  by AbReduce 0 THEN Analyze 0
. |
. 5. ¬u.v = nil
. ⊢  ||v||+1≥1
.   by Inst Thm* ∀l:A List. ||l||≥0    {non_neg_length} [A;v]
END
```