```
list-dec_wf  THM

⊢  ∀L:ℕ List, i:ℕ||L||. 0<L[i] ⇒ L[i--] ∈ ℕ List
| by Auto THEN (Unfold ‘list-dec‘ 0)
|    THEN
|    (RepeatFor 2 (Analyze THEN (Try (Complete Auto))))
|    THEN
|    SplitOnConclITE
|
.....set predicate .....
1. L : ℕ List
2. i : ℕ||L||
3. 0<L[i]
4. j : ℕ||L||
5. j = i
⊢  0≤L[j]-1  by HypSubst’ -1 0
END
```