```
list-dec-select  THM

⊢  ∀L:ℕ List, i,j:ℕ||L||.
   0<L[i] ⇒ L[i--][j] = if j=₂i→ L[j]-1 else L[j] fi
  by Auto THEN (Unfold ‘list-dec‘ 0)
     THEN
     (RWO
      Thm* ∀n:ℕ, f:(ℕn→T), i:ℕn. mklist(n;f)[i] = f(i)
      {mklist_select}
      0)
     THEN
     (Try (Complete Auto))
     THEN
     (Reduce 0)
END
```