

last-concat^{0,22}

$\forall T:\text{Type}, ll:(T \text{ List}) \text{ List}.$
 $\neg \text{concat}(ll) = \text{nil} \in T \text{ List}$
 $\Rightarrow (\exists ll_1:(T \text{ List}) \text{ List}, l_1:T \text{ List}.$
 $\text{concat}(ll) = (\text{concat}(ll_1) @ l_1 @ [\text{last}(\text{concat}(ll))]) \in T \text{ List}$
 $\& ll_1 @ [l_1 @ [\text{last}(\text{concat}(ll))]] \leq ll)$