last-concat^{0,22}

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

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http://www.cs.cornell.edu/Info/Projects/NuPrl/FDLcontent/p0_286125_/p38_330417_{last-concat}.html