

list_append_ind^{2,24}

$\forall T:\text{Type}, Q:((T \text{ List}) \rightarrow \text{Prop}).$

$Q(\text{nil})$

$\Rightarrow (\forall x:T. Q([x]))$

$\Rightarrow (\forall ys, ys':T \text{ List}. Q(ys) \Rightarrow Q(ys') \Rightarrow Q(ys @ ys'))$

$\Rightarrow \{\forall zs:T \text{ List}. Q(zs)\}$