

cons_succ^{4,23}

$\forall T:\text{Type}, l:T \text{ List}, P:(T \rightarrow \text{Prop}), a, x:T.$

$y = \text{succ}(x) \text{ in } a.l$

$\Rightarrow P(y)$

$\Rightarrow (x = a \Rightarrow 0 < \|l\| \Rightarrow P(\text{hd}(l))) \ \& \ (\neg x = a \Rightarrow y = \text{succ}(x) \text{ in } l \Rightarrow P(y))$