split_tail[4,23]

split_tail(L | $\forall x.f(x)$)
$\equiv_{\text{def}}$ Case of L
nil $\rightarrow \langle \text{nil}, \text{nil} \rangle$
$a.as$, rec: $\rightarrow$ split_tail(as | $\forall x.f(x)$)/hs,$ftail$.
Case of hs
nil $\rightarrow$ if $f(a)\rightarrow \langle \text{nil}, a.ftail \rangle$ else $\langle [a], ftail \rangle$ fi
$x.y$, rec: $\rightarrow \langle a.hs, ftail \rangle$
(recursive)

clarification:

split_tail(L | $\forall x.f(x)$)
$\equiv_{\text{def}}$ Case of L
nil $\rightarrow \langle \text{nil}, \text{nil} \rangle$
$a.as$, rec: $\rightarrow$ split_tail(as | $\forall x.f(x)$)/hs,$ftail$.
Case of hs
nil $\rightarrow$ if $f(a)\rightarrow \langle \text{nil}, a.ftail \rangle$ else $\langle a.\text{nil}, ftail \rangle$ fi
$x.y$, rec: $\rightarrow \langle a.hs, ftail \rangle$
(recursive)

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http://www.nuprl.org/FDLcontent/p0_802137_/p106_63449_{split_tail}.html