

hd-filter^{0,22}

$\forall T:\text{Type}, P:(T \rightarrow \mathbb{B}), as:T \text{ List.}$

$(\exists a:T. (a \in as) \ \& \ P(a))$

$\Rightarrow \text{hd}(\text{filter}(\lambda a.P(a);as)) \in T \ \& \ (\text{hd}(\text{filter}(\lambda a.P(a);as)) \in as) \ \& \ P(\text{hd}(\text{filter}(\lambda a.P(a);as)))$