

implies-filter-equal^{0,22}

$\forall T:\text{Type}, P:(T \rightarrow \mathbb{B}), L_1, L_2:T \text{ List.}$

$\text{no_repeats}(T;L_1)$

$\Rightarrow (\forall x:T. (x \in L_2) \Leftrightarrow (x \in L_1) \ \& \ P(x)) \ \& \ (\forall x, y:T. x \text{ before } y \in L_2 \Rightarrow x \text{ before } y \in L_1)$

$\Rightarrow \text{filter}(P;L_1) = L_2$