

cons_filter2^{4,23}

$\forall T:\text{Type}, x:T, L:T \text{ List}, P:(\mathbb{N}_{<\|L\|+1} \rightarrow \mathbb{B})$.

$\text{filter2}(P;x.L) = \text{if } P(0) \rightarrow x.\text{filter2}(\lambda i.P(i+1);L) \text{ else } \text{filter2}(\lambda i.P(i+1);L) \text{ fi} \in T \text{ List}$