

map_is_append^{0,22}

$\forall A, B:\text{Type}, f:(A \rightarrow B), L:A \text{ List}, L_1, L_2:B \text{ List}.$

$\text{map}(f;L) = (L_1 @ L_2) \in B \text{ List}$

$\Rightarrow \{\text{map}(f;\text{firstn}(\|L_1\|;L)) = L_1 \ \& \ \text{map}(f;\text{nth_tl}(\|L_1\|;L)) = L_2\}$