

append_rel^{4,23}

$\text{append_rel}(T;L_1;L_2;L) \equiv_{\text{def}} (L_1 @ L_2) = L$

clarification:

$\text{append_rel}(T;L_1;L_2;L) \equiv_{\text{def}} (L_1 @ L_2) = L \in T \text{ List}$