

interleaving_of_cons^{4,23}

$\forall T:\text{Type}, x:T, L, L_1, L_2:T \text{ List.}$
interleaving($T;L_1;L_2;x.L$)
 \Leftrightarrow
 $0 < \|L_1\| \ \& \ L_1[0] = x \ \& \ \text{interleaving}(T;\text{tl}(L_1);L_2;L)$
 $\vee 0 < \|L_2\| \ \& \ L_2[0] = x \ \& \ \text{interleaving}(T;L_1;\text{tl}(L_2);L)$