

causal_order_wf^{4,23}

$\forall T:\text{Type}, L:T \text{ List}, P, Q:(\mathbb{N}_{<\|L\|} \rightarrow \text{Prop}), R:(\mathbb{N}_{<\|L\|} \rightarrow \mathbb{N}_{<\|L\|} \rightarrow \text{Prop}).$
 $\text{causal_order}(L;R;P;Q) \in \text{Prop}$