interleaving_occurence_wf[4,23]

$\forall T$:Type, L_1, L_2, L:T List, f_1:$(\mathbb{N}_{<\|L_1\|} \to \mathbb{N}_{<\|L\|})$, f_2:$(\mathbb{N}_{<\|L_2\|} \to \mathbb{N}_{<\|L\|})$.
interleaving_occurence$(T;L_1;L_2;L;f_1;f_2) \in$ Prop