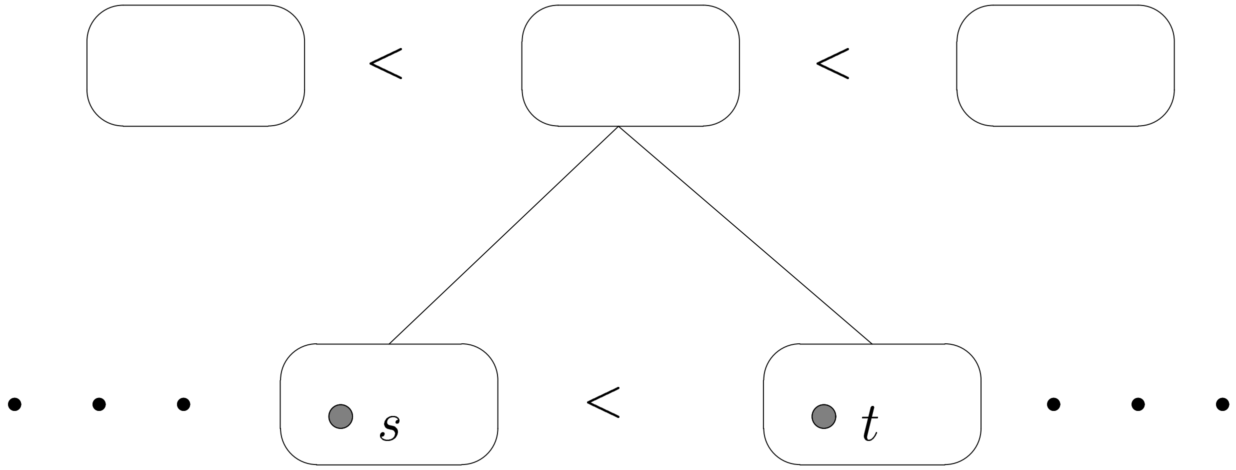
# Ordering the Types




*There is an IFP formula, $\psi$, such that:*

1. On any structure, $\mathcal{A}$, $\psi$ defines a linear pre-order on $k$-tuples.
2. If $\mathbf{s}$ and $\mathbf{t}t$ have the same $L^k$-type, then neither $\psi[\mathbf{st}]$ nor $\psi[\mathbf{ts}]$.