

rel-path-between-cons^{11,40}

$\forall T:\text{Type}, R:(T \rightarrow T \rightarrow \mathbb{P}), L:(T \text{ List}), x, y, z:T.$
 $\text{rel-path-between}(T;R;x;y;[z / L])$
 $\iff (x = z)$
 $\quad \& ((\uparrow\text{null}(L)) \Rightarrow (y = z))$
 $\quad \& ((\neg(\uparrow\text{null}(L))) \Rightarrow ((x R \text{hd}(L)) \& \text{rel-path-between}(T;R;\text{hd}(L);y;L))))$