

l.before_append_iff^{0,22}

$\forall T:\text{Type}, A, B:T \text{ List}, x, y:T.$

$x \text{ before } y \in A @ B \Leftrightarrow x \text{ before } y \in A \vee x \text{ before } y \in B \vee (x \in A) \& (y \in B)$