

order_split^{12,41}

$\forall T:\text{Type}, R:(T \rightarrow T \rightarrow \mathbb{P}).$

$\text{Order}(T;x,y.R(x,y))$

$\Rightarrow (\forall x, y:T. \text{Dec}(x = y))$

$\Rightarrow (\forall a, b:T. R(a,b) \iff (\text{strict_part}(x,y.R(x,y);a;b) \vee (a = b)))$

ProofTree