

Inference at *
of proof for Lemma connex_functionality_wrt_implies:

$\vdash \forall T:\text{Type}, R, R':(T \rightarrow T \rightarrow \mathbb{P}).$
 $(\forall x, y:T. \{R(x,y) \Rightarrow R'(x,y)\}) \Rightarrow \{\text{Connex}(T;x,y.R(x,y)) \Rightarrow \text{Connex}(T;x,y.R'(x,y))\}$
by (((Unfolds “guard connex“ 0)
CollapseTHEN (RepD)).)
CollapseTHEN (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term))).

1:

1. $T : \text{Type}$
2. $R : T \rightarrow T \rightarrow \mathbb{P}$
3. $R' : T \rightarrow T \rightarrow \mathbb{P}$
4. $\forall x, y:T. R(x,y) \Rightarrow R'(x,y)$
5. $\forall x, y:T. R(x,y) \vee R(y,x)$
6. $x : T$
7. $y : T$
- $\vdash R'(x,y) \vee R'(y,x)$