Inference at $*$
of proof for Lemma preorder_wf:

$\vdash \forall T$:Type, $R$:($T \rightarrow T \rightarrow \mathbb{P}$). Preorder($T$;$x$,$y$.$R(x,y)$) $\in \mathbb{P}$
by ((Unfold ‘preorder‘ 0)
CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n
),(first_nat 3:n)) (first_tok :t) inil_term)))·

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_81621_{preorder_wf}.html