Inference at $*$ 1 0
of proof for Lemma symmetrized_preorder:

1. T : Type
2. R : $T \to T \to \mathbb{P}$
3. Refl(T;x,y.$R(x,y)$)
4. Trans(T;x,y.$R(x,y)$)
$\vdash$ Refl(T;a,b.$R(a,b)$ & $R(b,a)$)
by PERMUTE{1:n, 1:n, 2:n}

1: .....wf..... NILNIL

3. $\forall a{:}T.\ R(a,a)$
4. Trans(T;x,y.$R(x,y)$)
5. a : T
$\vdash$ $a \in T$

2: .....wf..... NILNIL

3. $\forall a{:}T.\ R(a,a)$
4. Trans(T;x,y.$R(x,y)$)
$\vdash$ $T \in$ Type

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