Inference at $*$ 3
 of proof for Lemma equiv_rel_subtyping:

1. T : Type
2. R : $T \to T \to$ Type
3. Q : $T \to \mathbb{P}$
4. $\forall a{:}T.\ R(a,a)$
5. $\forall a, b{:}T.\ R(a,b) \Rightarrow R(b,a)$
6. $\forall a, b, c{:}T.\ R(a,b) \Rightarrow R(b,c) \Rightarrow R(a,c)$
7. a : $\{z{:}T \mid Q(z)\}$
8. b : $\{z{:}T \mid Q(z)\}$
9. c : $\{z{:}T \mid Q(z)\}$
10. $R(a,b)$
11. $R(b,c)$

$\vdash R(a,c)$

 by ((FHyp 6 [10;11])
 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_81718_{equiv_rel_subtyping}3.html