Inference at $*$ 2
 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. $R(a,b)$

$\vdash R(b,a)$

 by ((BHyp 5)
 CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n
 )) (first_tok :t) inil_term)))·

 .