

Inference at \*  
of proof for Lemma not\_functionality\_wrt\_iff:

$\vdash \forall P, Q: \mathbb{P}. (P \iff Q) \Rightarrow ((\neg P) \iff (\neg Q))$   
by ((((((Unfold 'not' 0)  
CollapseTHEN (GenUnivCD)).)  
CollapseTHENM (HypBackchain)).)

CollapseTHEN ((Auto\_aux (first\_nat 1:n) ((first\_nat 1:n),(first\_nat 3:n)) (first\_tok  
:t) inil\_term))).