

Inference at \*  
of proof for Lemma and\_comm:

$\vdash \forall A, B: \mathbb{P}. (A \wedge B) \iff (B \wedge A)$   
by (((RepD)  
CollapseTHENM (ProveProp)).)  
CollapseTHENA ((Auto\_aux (first\_nat 1:n  
 ) ((first\_nat 1:n), (first\_nat 3:n)) (first\_tok :t) inil\_term))).