

Inference at \* 2  
of proof for Lemma not\_over\_and:

1.  $A : \mathbb{P}$
2.  $B : \mathbb{P}$
3.  $\text{Dec}(A)$
4.  $(\neg A) \vee (\neg B)$

$\vdash \neg(A \wedge B)$   
by ((BLemma 'not\_over\_and\_b'  
CollapseTHEN ((Auto\_aux (first\_nat 1:n) ((first\_nat 1:n  
,(first\_nat 4:n)) (first\_tok :t) inil\_term))))).