

Inference at \* 1  
of proof for Lemma not\_over\_and\_b:

```
1. A :  $\mathbb{P}$ 
2. B :  $\mathbb{P}$ 
3. ( $\neg A$ )  $\vee$  ( $\neg B$ )
4. A & B
 $\vdash$  False
  by ((D 3)
    CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)
      )) (first_tok :t) inil_term)))
.
```