

Inference at * 1 1
of proof for Lemma not_over_and:

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1.  $A : \mathbb{P}$ 
2.  $B : \mathbb{P}$ 
3.  $\text{Dec}(A)$ 
4.  $\neg(A \wedge B)$ 
5.  $A$ 
 $\vdash (\neg A) \vee (\neg B)$ 
  by (((Sel 2 (D 0))
CollapseTHENM (D 0)).)
CollapseTHENA ((Auto_aux (first_nat 1:n
) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))

```

1:

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6.  $B$ 
 $\vdash \text{False}$ 

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