

Inference at \* 1 1  
of proof for Lemma bool\_cases:

$\vdash (tt = tt) \vee (tt = ff)$   
by ((DNth 1 0)  
CollapseTHEN ((Auto\_aux (first\_nat 1:n) ((first\_nat 1:n),(first\_nat 3:n  
)) (first\_tok :t) inil\_term)))·