

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

$\vdash \forall b:\mathbb{B}. (b = \text{tt}) \vee (b = \text{ff})$   
by (D 0)  
CollapseTHEN ((Auto\_aux (first\_nat 1:n) ((first\_nat 1:n),(first\_nat 3:n)) (first\_tok :t) inil\_term)).

1:

1.  $b : \mathbb{B}$   
 $\vdash (b = \text{tt}) \vee (b = \text{ff})$   
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