

Inference at \* 1  
of proof for Lemma b2i\_bounds:

1.  $b : \mathbb{B}$   
 $\vdash (0 \leq \text{b2i}(b)) \wedge (\text{b2i}(b) \leq 1)$   
by (((BoolCases 1)  
CollapseTHEN (AbReduce 0)).)  
CollapseTHEN ((Auto\_aux (first\_nat  
1:n) ((first\_nat 2:n),(first\_nat 3:n)) (first\_tok :t) inil\_term))).