

Inference at \* 2 1 1  
of proof for Lemma sq\_stable\_and:

1.  $P : \mathbb{P}$
2.  $Q : \mathbb{P}$
3.  $(\downarrow P) \Rightarrow P$
4.  $(\downarrow Q) \Rightarrow Q$
5.  $P \wedge Q$

$\vdash \downarrow Q$   
by ((SquashCD  
CollapseTHEN ((Auto\_aux (first\_nat 1:n) ((first\_nat 1:n),(first\_nat 3:n  
)) (first\_tok :t) inil\_term))))