

Inference at \* 2 2  
of proof for Lemma decidable\_functionality:

1.  $P : \mathbb{P}$
2.  $Q : \mathbb{P}$
3.  $P \iff Q$
4.  $\text{Dec}(Q)$

$\vdash Q \iff P$   
by ((InvertRel 3)  
CollapseTHEN ((Auto\_aux (first\_nat 1:n) ((first\_nat 1:n),(first\_nat  
4:n)) (first\_tok :t) inil\_term))).