

Inference at \* 2 1  
of proof for Lemma decidable\_functionality:

1.  $P : \mathbb{P}$
  2.  $Q : \mathbb{P}$
  3.  $P \iff Q$
  4.  $\text{Dec}(Q)$
- $\vdash \text{Dec}(Q)$   
by (Auto\_aux (first\_nat 1:n) ((first\_nat 1:n),(first\_nat 4:n)) (first\_tok :t) inil\_term)