

Inference at * 2 2
of proof for Lemma decidable_functionality:

```

1. P :  $\mathbb{P}$ 
2. Q :  $\mathbb{P}$ 
3. P  $\iff$  Q
4. 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)))
```