

Inference at *
of proof for Lemma decidable_implies:

```
⊢∀P,Q:ℙ. Dec(P) ⇒ Dec(Q) ⇒ Dec(P ⇒ Q)
  by ((Unfold 'decidable' 0)
      CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n
        ),(first_nat 3:n)) (first_tok :t) inil_term))))
```

1:

1. $P : \mathbb{P}$
 2. $Q : \mathbb{P}$
 3. $P \vee (\neg P)$
 4. $Q \vee (\neg Q)$
- ⊢ $(P \Rightarrow Q) \vee (\neg(P \Rightarrow Q))$
- .