

Inference at * 1 1 1 1
of proof for Lemma choicef_wf:

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1.  $xm : \forall P:\mathbb{P}. P \vee (\neg P)$ 
2.  $T : \text{Type}$ 
3.  $P : T \rightarrow \mathbb{P}$ 
4.  $\exists a:T. P(a)$ 
5.  $y : \{y:T \mid P(y)\} \rightarrow \text{False}$ 
6.  $xm(\{y:T \mid P(y)\}) = (\text{inr } y)$ 
 $\vdash \{y:T \mid P(y)\}$ 
  by (((D 4)
    CollapseTHEN (With  $a$  (D 0))))
    CollapseTHEN ((Auto_aux (first_nat 1:n
      ) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))

```