

Inference at * 1
of proof for Lemma uni_sat_imp_in_uni_set:

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1.  $T : \text{Type}$ 
2.  $a : T$ 
3.  $Q : T \rightarrow \mathbb{P}$ 
4.  $Q(a)$ 
5.  $\forall a':T. Q(a') \Rightarrow (a' = a)$ 
 $\vdash a \in \{x:T \mid Q(x) \ \& \ (\forall y:T. Q(y) \Rightarrow (y = x))\}$ 
  by ((MemTypeCD
    CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat
      3:n)) (first_tok :t) inil_term))))
1:
    6.  $y : T$ 
    7.  $Q(y)$ 
     $\vdash y = a$ 
.
```