

Inference at \*  
of proof for Lemma decidable\_equal\_bool:

$\vdash \forall a, b : \mathbb{B}. \text{Dec}(a = b)$   
by ((UnivCD)  
CollapseTHEN ((Auto\_aux (first\_nat 1:n) ((first\_nat 1:n), (first\_nat 3:n)  
)) (first\_tok :t) inil\_term)))

1:

1.  $a : \mathbb{B}$
  2.  $b : \mathbb{B}$
- $\vdash \text{Dec}(a = b)$

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