

Inference at \* 2 1  
of proof for Lemma assert\_of\_eq\_int:

1.  $x : \mathbb{Z}$

2.  $y : \mathbb{Z}$

3.  $x = y$

$\vdash$  if  $x=y$  then tt else ff

by ((RWH (ReduceThenC (Auto\_aux (first\_nat 1:n) ((first\_nat 1:n),(first\_nat 4:n)) (first\_tok :t) inil\_term)) 0)

CollapseTHEN ((Auto\_aux (first\_nat 1:n) ((first\_nat 1:n),(first\_nat 3:n)) (first\_tok :t) inil\_term))).

1:

$\vdash$  ↑tt

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