Inference at $*$ 2 1
 of proof for Lemma assert_of_eq_int:

1. $x : \mathbb{Z}$
2. $y : \mathbb{Z}$
3. $x = y$

$\vdash \uparrow$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)
 CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat
  1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

  1:

   $\vdash \uparrow$tt
  .