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

1. $x : \mathbb{Z}$
2. $y : \mathbb{Z}$
3. $\uparrow$if x=y then tt else ff
4. $x = y$

$\vdash x = y$

by (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 4:n)) (first_tok :t) inil_term)

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http://www.nuprl.org/FDLcontent/p0_359040_/p121_89446_{assert_of_eq_int}1_1_1.html