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

1. $x : \mathbb{Z}$
2. $y : \mathbb{Z}$
3. $\uparrow x <\text{z } y$
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_942988_/p121_88967_{assert_of_lt_int}1_1.html