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

1. $i : \mathbb{Z}$
2. $A : \{i{+}1\ldots\}\rightarrow \mathbb{P}$
3. $\forall j{:}\mathbb{Z}.\ (i < j) \Rightarrow A(j)$
4. $j : \{i{+}1\ldots\}$

$\vdash A(j)$
 by ((BackThruHyp 3)
 CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 2:n
 ),(first_nat 3:n)) (first_tok :t) inil_term)))·

 .

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_94750_{int_lt_to_int_upper}1_1.html