

Inference at * 1 2 2 2 3 1
of proof for Lemma fincr_formation:

....subterm.... T:t1:n

1. $i : \mathbb{N}$
 2. $f : \{f \mid i:\{i_1:\mathbb{N} \mid i_1 (\lambda i,j. i < j) i\} \rightarrow \text{if } (i =_0 0) \text{ then } \mathbb{Z} \text{ else } \{f(i - 1) \dots\} \text{ fi} \}$
 3. $\forall j:\{k:\mathbb{N} \mid k < i\} . f(j) \in \mathbb{Z}$
 4. $i \neq 0$
 5. $\mathbb{Z}$
- $\vdash f(i - 1) \in \mathbb{Z}$
by ((With $i - 1$ (D (-3)))
CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 2:n
), (first_nat 3:n)) (first_tok :t) inil_term)))).