

Inference at * 1
of proof for Lemma fincr_formation:

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

1:aux..... NILNIL

$\vdash \downarrow \text{WellFnd}\{1\}(\mathbb{N}; u, v. (\lambda i, j. i < j)(u, v))$
2:

1. $i : \mathbb{N}$
2. $f :$
 $\{f \mid i:\{i_1:\mathbb{N} \mid i_1 (\lambda i, j. i < j) i\} \rightarrow \text{if } (i =_0 0) \text{ then } \mathbb{Z} \text{ else } \{f(i - 1) \dots\} \text{ fi}\}$
 $\vdash \text{if } (i =_0 0) \text{ then } \mathbb{Z} \text{ else } \{f(i - 1) \dots\} \text{ fi}$
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