

Inference at * 1 2
of proof for Lemma fincr_formation:

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

1:assertion..... NILNIL

$\vdash \forall j:\{k:\mathbb{N} \mid k < i\} . f(j) \in \mathbb{Z}$

2:

3. $\forall j:\{k:\mathbb{N} \mid k < i\} . f(j) \in \mathbb{Z}$
 $\vdash \text{if } (i =_0 0) \text{ then } \mathbb{Z} \text{ else } \{f(i - 1) \dots\} \text{ fi}$

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