

Inference at * 1 4 1 1
of proof for Lemma fincr_wf2:

1. $i : \mathbb{N}$
2. $f : \{f \mid i:\{z:\mathbb{N} \mid z < i\} \rightarrow \text{if } (i =_0 0) \text{ then } \mathbb{Z} \text{ else } \{f(i - 1) \dots\} \text{ fi}\}$
3. $j : \{k:\mathbb{N} \mid k < i\}$
 $\vdash f(j) \in \mathbb{Z}$
by ((D (-1))
CollapseTHEN (CompNatInd (-2))).

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3. $j : \mathbb{N}$
4. $\forall j_1:\mathbb{N}. (j_1 < j) \Rightarrow (j_1 < i) \Rightarrow (f(j_1) \in \mathbb{Z})$
 $\vdash (j < i) \Rightarrow (f(j) \in \mathbb{Z})$
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