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

1. $i : \mathbb{N}$
2. $f : \{f \mid i{:}\{z{:}\mathbb{N} \mid z < i\} \rightarrow \text{if } (i =_0 0) \text{ then } \mathbb{Z} \text{ else } \{f(i \text{ - } 1)\ldots\} \text{ fi } \}$
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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