

Inference at * 1 1 1 2 1
of proof for Lemma comp_nat_ind_tp:

.....wf..... NILNIL

1. $P : \mathbb{N} \rightarrow \mathbb{P}\{k\}$
 2. $\forall i:\mathbb{N}. (\forall j:\mathbb{N}. (j < i) \Rightarrow P(j)) \Rightarrow P(i)$
 3. $i : \mathbb{N}$
- $\vdash i+1 \in \mathbb{N}$
by ArithMemberReflEqTypeCD

1:

$\vdash i+1 \in \mathbb{Z}$

2:set predicate..... NILNIL

$\vdash 0 \leq (i+1)$

3:wf..... NILNIL

4. $i_1 : \mathbb{Z}$

$\vdash (0 \leq i_1) \in \text{Type}$

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