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

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

1. $P : \mathbb{N} \to \mathbb{P}\{\mathrm{k}\}$
2. $\forall i{:}\mathbb{N}.\ (\forall j{:}\mathbb{N}.\ (j < i) \Rightarrow P(j)) \Rightarrow P(i)$
3. $i : \mathbb{N}$

$\vdash i \in \mathbb{N}$
by MemEqCD

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http://www.nuprl.org/FDLcontent/p0_359040_/p121_94017_{comp_nat_ind_tp}1_1_1_2_2.html