Inference at $*$ 1 1 1 2 2 0
of proof for Lemma nat_ind_tp:

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

1. $P : \mathbb{N} \rightarrow \mathbb{P}\{\mathrm{k}\}$
2. $P(0)$
3. $\forall i{:}\mathbb{N}^{+}.\ P(i - 1) \Rightarrow P(i)$

$\vdash (0 \geq 0\ ) \in \mathbb{P}_1$
by PERMUTE{1:n, 1:n}

1: . . . . .subterm. T:t1:n

$\vdash 0 \in \mathbb{Z}$

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_94355_{nat_ind_tp}1_1_1_2_2_0.html