

Inference at \* 1 0 1 2 2 0  
of proof for Lemma nat\_ind:

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

1.  $P : \mathbb{N} \rightarrow \mathbb{P}\{k\}$
  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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