

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

.....basecase..... NILNIL

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

1: .....basecase..... NILNIL

$\vdash P(0)$

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