

Inference at \* 1 1  
of proof for Lemma comp\_nat\_ind\_tp:

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.  $i : \mathbb{N}$
- $\vdash P(i)$   
by PushArgs ['hn',int\_to\_arg 3]

1:

$\vdash P(i)$

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