

Inference at * 1
of proof for Lemma complete_nat_ind:

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1.  $P : \mathbb{N} \rightarrow \mathbb{P}\{k\}$ 
2.  $\forall i:\mathbb{N}. (\forall j:\mathbb{N}i. P(j)) \Rightarrow P(i)$ 
3.  $i : \mathbb{N}$ 
 $\vdash P(i)$ 
  by InteriorProof ((NCompInd 3)
    CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat
      2:n),(first_nat 3:n)) (first_tok :t) inil_term))))·

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1:

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4.  $\forall i_1:\mathbb{N}i. P(i_1)$ 
 $\vdash P(i)$ 
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