

Inference at *
of proof for Lemma complete_nat_ind:

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

1:

1. $P : \mathbb{N} \rightarrow \mathbb{P}\{k\}$
 2. $\forall i:\mathbb{N}. (\forall j:\mathbb{N}i. P(j)) \Rightarrow P(i)$
 3. $i : \mathbb{N}$
- $\vdash P(i)$
- .