Inference at $*$ 1
of proof for Lemma comp_nat_ind_a:

1. $P : \mathbb{N} \to \mathbb{P}\{\mathrm{k}\}$
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 ((% Generalize %
Assert $\forall j,\ s{:}\mathbb{N}.\ (s < j) \Rightarrow P(s)$
CollapseTHEN (IfLabL

['assertion',Id
;'main',((InstHyp [i+1;i] (-1))
CollapseTHEN (
(Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n)) (first_tok :t) inil_term)))·
]))·

1: .....assertion..... NILNIL

$\vdash \forall j,\ s{:}\mathbb{N}.\ (s < j) \Rightarrow P(s)$

.