

Inference at * 1 1 2 1
of proof for Lemma comp_nat_ind_a:

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. $s : \mathbb{N}$
4. $\forall t:\mathbb{N}. (t < s) \Rightarrow P(t)$

$\vdash P(s)$

by (% done % ((((((B Hyp 2)
CollapseTHENM (RepD)))
CollapseTHENM (B Hyp 4)).

CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t
) inil_term))))).

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