

Inference at *
of proof for Lemma comp_nat_ind_tp:

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

1:

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