

Inference at * 1 1 1 2 3
of proof for Lemma comp_nat_ind_tp:

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

1:antecedent..... NILNIL

3. $i : \mathbb{N}$
- $\vdash i < (i+1)$

2:

4. $P(i)$
- $\vdash P(i)$

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