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

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. $i : \mathbb{N}$
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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http://www.nuprl.org/FDLcontent/p0_942988_/p121_94017_{comp_nat_ind_tp}1_1_1_2_3.html