Inference at $*$ 1 1 1 2
 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. $\forall zz,\ i{:}\mathbb{N}.\ (i < zz) \Rightarrow P(i)$

$\vdash P(i)$

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  by (\p.let i = mvt (var_of_hyp (-2) p) in
    let ip1 = mk_add_term i 1 in
    ((
  DTerm ip1 (-1))
  CollapseTHENM (DTerm i (-1)))· p)
```

1: . . . . .wf. . . . . NILNIL

3. $i : \mathbb{N}$

$\vdash i{+}1 \in \mathbb{N}$

2: . . . . .wf. . . . . NILNIL

3. $i : \mathbb{N}$

$\vdash i \in \mathbb{N}$

3:

4. $(i < (i{+}1)) \Rightarrow P(i)$

$\vdash P(i)$

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