Inference at $*$ 1 0 1 3 1
 of proof for Lemma nat_ind:

1. $P : \mathbb{N} \to \mathbb{P}\{\mathrm{k}\}$
2. $P(0)$
3. $\forall i{:}\mathbb{N}^+.\ P(i - 1) \Rightarrow P(i)$
4. $j : \mathbb{Z}$
5. $0 < j$
6. $((j - 1) \geq 0\ ) \Rightarrow P(j - 1)$
7. $j \geq 0$

$\vdash P(j)$
 by ((Thin (-1))
 CollapseTHEN (D (-1)))·

1: . . . . .antecedent. . . . . NILNIL

5. $0 < j$

$\vdash (j - 1) \geq 0$

2:

6. $P(j - 1)$

$\vdash P(j)$

.