Inference at $*$ 1 0 1 1 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. $j < 0$
6. $((j + 1) \geq 0\ ) \Rightarrow P(j + 1)$
7. $j \geq 0$

$\vdash P(j)$
 by Arith

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http://www.nuprl.org/FDLcontent/p0_359040_/p121_93428_{nat_ind}1_0_1_1_1.html