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

. . . . .antecedent. . . . . NILNIL

1. $n : \mathbb{Z}$
2. $0 < n$

$\vdash (n - 1) \geq 0$
 by Arith

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

 $\vdash (n - 1) \in \mathbb{Z}$
 2: . . . . .wf. . . . . NILNIL

 $\vdash 0 \in \mathbb{Z}$
 .