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

. . . . .downcase. . . . . NILNIL

1. $n : \mathbb{Z}$
2. $n < 0$
3. $((n{+}1) \geq 0\ ) \Rightarrow (\exists r{:}\mathbb{N}.\ (((r * r) \leq (n{+}1))\ \&\ ((n{+}1) < ((r{+}1) * (r{+}1)))))$

$\vdash (n \geq 0\ ) \Rightarrow (\exists r{:}\mathbb{N}.\ (((r * r) \leq n)\ \&\ (n < ((r{+}1) * (r{+}1)))))$
by D 0

1:

4. $n \geq 0$

$\vdash \exists r{:}\mathbb{N}.\ (((r * r) \leq n)\ \&\ (n < ((r{+}1) * (r{+}1))))$

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

$\vdash (n \geq 0\ ) \in \mathbb{P}_1$

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http://www.nuprl.org/FDLcontent/p0_963683_/p28_1027382_{integer!sqrt}1_0_1_1.html