Inference at $*$ 1 0 1 2 1 1
of proof for Lemma integer sqrt:

. . . . .basecase. . . . . NILNIL

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

1: . . . . .basecase. . . . . NILNIL

$\vdash \exists r{:}\mathbb{N}.\ (((r * r) \leq 0)\ \&\ (0 < ((r{+}1) * (r{+}1))))$
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http://www.nuprl.org/FDLcontent/p0_963683_/p28_1027382_{integer!sqrt}1_0_1_2_1_1.html