

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

1.  $n : \mathbb{N}$   
 $\vdash \exists r:\mathbb{N}. (((r * r) \leq n) \ \& \ (n < ((r+1) * (r+1))))$   
by (%S% \p.AbSetHD (get\_int\_arg 'hn' p) p)

1:

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