Inference at $*$
 of proof for Lemma int_sq:

$\vdash$SQType($\mathbb{Z}$)
  by ((Unfold ‘sq_type‘ 0)
  CollapseTHEN (UnivCD
THENW (Auto_aux (first_nat 1:n
) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

    1:

        1. $x : \mathbb{Z}$
        2. $y : \mathbb{Z}$
        3. $x = y$
        $\vdash x \sim y$
    .

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_87353_{int_sq}.html