Inference at $*$
 of proof for Lemma decidable_equal_int_seg:

$\vdash \forall i, j{:}\mathbb{Z}, x, y{:}\{i..j^-\}.\ \mathrm{Dec}(x = y)$
 by ((((Unfold ‘decidable‘ 0)
 CollapseTHEN (RepD))·)
 CollapseTHENA (
  (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

  1:

    1. $i : \mathbb{Z}$
    2. $j : \mathbb{Z}$
    3. $x : \{i..j^-\}$
    4. $y : \{i..j^-\}$
    $\vdash (x = y) \vee (\neg(x = y))$
  .

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_94957_{decidable_equal_int_seg}.html