Inference at $*$ 1 1
 of proof for Lemma decidable_equal_int_seg:

1. $i : \mathbb{Z}$
2. $j : \mathbb{Z}$
3. $x : \{i..j^-\}$
4. $y : \{i..j^-\}$
5. $x = y$

$\vdash (x = y) \vee (\neg(x = y))$

 by ((Sel 1 (D 0))
 CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat
 3:n)) (first_tok :t) inil_term)))·

 .

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_94957_{decidable_equal_int_seg}1_1.html