

Inference at \*  
of proof for Lemma decidable\_\_equal\_int\_seg:

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⊢∀i,j:ℤ, x,y:{i..j-}. Dec(x = y)
  by (((Unfold 'decidable' 0)
    CollapseTHEN (RepD)).)
    CollapseTHEN (
      (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.  $y : \{i..j^-\}$
- ⊢  $(x = y) \vee (\neg(x = y))$
- .