```
decidable__equal_int_seg  THM

⊢  ∀i,j:ℤ, x,y:{i..j⁻}. Dec(x = y)  by Unfold ‘decidable‘ 0 THEN RepD
|
1. i : ℤ
2. j : ℤ
3. x : {i..j⁻}
4. y : {i..j⁻}
⊢  x = y ∨ ¬x = y  by Decide (x = y)
|
|\
| 5. x = y
| ⊢  x = y ∨ ¬x = y  by Sel 1 (Analyze 0)
|
.\
. 5. ¬x = y
. ⊢  x = y ∨ ¬x = y  by Sel 2 (Analyze 0)
. |
. ⊢  ¬x = y  by Auto
END
```