```
iter_via_intseg_notnull  THM

⊢  ∀f:(A→A→A), u:A, a,b:ℤ, e:({a..b⁻}→A).
|  a<b
|  ⇒
|  (∀c:ℤ.
|   b = c+1
|   ⇒
|   (Iter(f;u) i:{a..b⁻}. e(i)) = f((Iter(f;u) i:{a..c⁻}. e(i)),e(c)))
| by Auto
|
1. A : Type
2. f : A→A→A
3. u : A
4. a : ℤ
5. b : ℤ
6. e : {a..b⁻}→A
7. a<b
8. c : ℤ
9. b = c+1
⊢  (Iter(f;u) i:{a..b⁻}. e(i)) = f((Iter(f;u) i:{a..c⁻}. e(i)),e(c))
| by Compute ⌈Iter(f;u) i:{a..b⁻}. e(i)⌉ THEN SplitITE 0
|
.....truecase .....
10. a<b
⊢  f((Iter(f;u) i:{a..b-1⁻}. e(i)),e(b-1))
   =
   f((Iter(f;u) i:{a..c⁻}. e(i)),e(c))  by 3 Times Analyze
END
```