```
extend_intseg_upperpart_down  THM

⊢  ∀a,b:ℤ, P:({a..b⁻}→Prop), n:{(a+1)..(b+1)⁻}.
|  P(n-1) ⇒ (∀i:{a..b⁻}. n≤i ⇒ P(i)) ⇒ (∀i:{a..b⁻}. n-1≤i ⇒ P(i))
| by RemoveGuards Concl THEN 6 Times Analyze
|
1. a : ℤ
2. b : ℤ
3. P : {a..b⁻}→Prop
4. n : {(a+1)..(b+1)⁻}
5. P(n-1)
6. ∀i:{a..b⁻}. n≤i ⇒ P(i)
⊢  ∀i:{a..b⁻}. n-1≤i ⇒ P(i)  by SimilarTo Hyp:-1
|
6. i : {a..b⁻}
7. n≤i ⇒ P(i)
8. n-1≤i
⊢  P(i)  by Decide: i = n-1
|
|\
| 9. i = n-1
| ⊢  P(i)  by Rewrite by i = n-1 ∈ {a..b⁻}
|
.\
. 9. ¬i = n-1
. ⊢  P(i)  by Analyze7
END
```