```
int_seg_well_founded_up  THM

⊢  ∀i:ℤ, j:{i...}. WellFnd{u}({i..j⁻};x,y.x<y)
| by Auto
|    THEN
|    FwdThru:
|    Thm* ∀r:(A→A→Prop), B:Type, f:(B→A).
|         WellFnd{i}(A;x,y.r(x,y)) ⇒ WellFnd{i}(B;x,y.r(f(x),f(y)))
|    {inv_image_ind}
|    on [ WellFnd{u}({i...};x,y.x<y) ]
|    Using:[B:= {i..j⁻} | f(x):= x]
|
.....assertion .....
1. i : ℤ
2. {i...}
⊢  WellFnd{u}({i...};x,y.x<y)
  by BackThru:
     Thm* ∀n:ℤ. WellFnd{i}({n...};x,y.x<y)
     {int_upper_well_founded}
END
```