```
nsub_surj_imp_a_rev_inj  THM

⊢  ∀f:(ℕa onto→ ℕb). (λy.least x:ℕ. f(x)=₂y) ∈ ℕb inj→ ℕa
  by Analyze
     THEN
     Use:[B:= ℕb | e(i;j):= i=₂j]
     Inst:
     Thm*  ∀e:(B→B→𝔹).
           IsEqFun(B;e)
           ⇒
           (∀a:ℕ, f:(ℕa onto→ B).
            (λy.least x:ℕ. (f(x)) e y) ∈ B inj→ ℕa)
     {nsub_surj_imp_a_rev_inj_gen}
     THEN
     BackThru: Thm*  IsEqFun(ℕb;λ₂i,j. i=₂j)    {eq_int_is_eq_nsub}
END
```