```
surjection_type_nsub_surjection  THM

⊢  ∀f:(ℕa onto→ ℕb). Surj(ℕa; ℕb; f)  by Auto
|
1. a : ℕ
2. b : ℕ
3. f : ℕa onto→ ℕb
⊢  Surj(ℕa; ℕb; f)
| by Use:[ℕa | ℕb | f | a]
|     Inst:
|     Thm*  ∀f:(A onto→ B), a:ℕ.
|             ℕa onto→ A ⇒ (B Discrete) ⇒ Surj(A; B; f)
|     {surjection_type_surjection}
|
|\
| .....antecedent .....
| ⊢  ℕa onto→ ℕa  by Witness: λx.x
| |
| ⊢  Surj(ℕa; ℕa; λx.x)
|    by New:i Analyze THEN Reduce Concl THEN Witness: i
|
.\
. .....antecedent .....
. ⊢  ℕb Discrete  by Def
END
```