```
rem_eq_args  THM

⊢  ∀a:ℕ⁺. (a rem a) = 0  by Auto THEN ElaborateDivision Auto 0
|
1. a : ℕ⁺
2. a = (a ÷ a)·a+(a rem a)
3. (a rem a) ∈ ℕa
⊢  (a rem a) = 0
  by FwdThru:
     Thm* ∀k:ℕ⁺, r1,r2:ℕk, q1,q2:ℤ.
          q1·k+r1 = q2·k+r2 ⇒ q1 = q2 & r1 = r2
     {division1_sfa}
     on [ (a ÷ a)·a+(a rem a) = 1·a+0 ]
END
```