```
division_typing1b_sfa  THM

⊢  ∀a:{...0}, n:ℕ⁺. (a ÷ n) ∈ {...0}
| by Auto THEN ElaborateDivision Auto 0
|
1. a : {...0}
2. n : ℕ⁺
3. a = (a ÷ n)·n+(a rem n)
4. -(a rem n) ∈ ℕn
⊢  (a ÷ n)≤0
  by FwdThru:
     Thm* ∀k:ℕ⁺, r1,r2:ℕk, q1,q2:ℤ. q1·k-r1≤q2·k-r2 ⇒ q1≤q2
     {division_mono2_sfa}
     on [ (a ÷ n)·n-(-(a rem n))≤0·n-0 ]
END
```