```
div_lt_lbound  THM

⊢  ∀a:ℕ, n:ℕ+, k:ℕ. a<n·k ⇒ (a ÷ n)<k  by UnivCD
|
1. a : ℕ
2. n : ℕ+
3. k : ℕ
4. a<n·k
⊢  (a ÷ n)<k  by Decide ((a ÷ n)≥k)
|
|\
| 5. (a ÷ n)≥k
| ⊢
|   by RWH
|      (LemmaC
|       Thm* ∀a:ℕ, n:ℕ+, k:ℕ. k≤(a ÷ n) ⟺ k·n≤a    {div_lbound_1})
|      5
|
.\
. 5. ¬(a ÷ n)≥k
. ⊢   by Auto
END
```