```
remainder_wf  THM

⊢  ∀a:ℕ, n:ℕ+. (a rem n) ∈ ℕ  by UnivFmlaCD []
|
1. a : ℕ
2. n : ℕ+
⊢  (a rem n) ∈ ℕ  by UnfoldTop `member` 0 THEN AbSetEqTypeCD
|
|\
| ⊢  (a rem n) = (a rem n)  by PrimEqCD
|
|\
| .....set predicate .....
| ⊢  0≤(a rem n)
|   by BackThru
|      Thm* ∀a:ℕ, n:ℕ+. 0≤(a rem n) & (a rem n)<n    {rem_bounds_1}
|
.\
. .....wf .....
. 3. i : ℤ
. ⊢  (0≤i) = (0≤i)  by Auto
END
```