```
fact_wf  THM

⊢  ∀n:ℕ. fact(n) ∈ ℕ  by RepD
|
1. n : ℕ
⊢  fact(n) ∈ ℕ  by NInd 1 THEN Try (Complete Auto)
|
|\
| .....basecase .....
| ⊢  fact(0) ∈ ℕ
|   by RecUnfold ‘fact‘ 0 THEN Simp THEN StrongAuto THEN Simp
|
.\
. .....upcase .....
. 1. n : ℤ
. 2. 0<n
. 3. fact(n-1) ∈ ℕ
. ⊢  fact(n) ∈ ℕ  by RecUnfold ‘fact‘ 0 THEN Simp THEN StrongAuto
END
```