```
primrec_wf  THM

⊢  ∀T:Type, n:ℕ, b:T, c:(ℕn→T→T). primrec(n;b;c) ∈ T
| by RepeatFor 2 (D 0 THENA Auto) THEN NatInd (-1) THEN

|    Auto THEN RecUnfold ‘primrec‘ 0 THEN Reduce 0
|
|\
| 1. T : Type
| 2. b : T
| 3. ℕ0→T→T
| ⊢  b ∈ T  by Auto
|
.\
. 1. T : Type
. 2. n : ℤ
. 3. 0<n
. 4. ∀b:T, c:(ℕ(n-1)→T→T). primrec(n-1;b;c) ∈ T
. 5. b : T
. 6. c : ℕn→T→T
. ⊢  if n=₂0→ b else c(n-1,primrec(n-1;b;c)) fi ∈ T
. | by SplitOnConclITE THEN Auto
. |
. .....subterm .....
. 1. T : Type
. 2. n : ℤ
. 3. 0<n
. 4. ∀b:T, c:(ℕ(n-1)→T→T). primrec(n-1;b;c) ∈ T
. 5. b : T
. 6. c : ℕn→T→T
. 7. ¬n = 0
. ⊢  primrec(n-1;b;c) ∈ T  by BackThruSomeHyp
END
```