```
nat_ind_a  THM

⊢  ∀P:(ℕ→Prop). P(0) ⇒ (∀i:ℕ⁺. P(i-1) ⇒ P(i)) ⇒ (∀i:ℕ. P(i))
| by Unfold ‘guard‘ 0 THEN RepD
|
1. P : ℕ→Prop
2. P(0)
3. ∀i:ℕ⁺. P(i-1) ⇒ P(i)
4. i : ℕ
⊢  P(i)  by (Analyze 4) THEN (IntInd 4) THEN (Analyze 0)
|
|\
| 4. i : ℤ
| 5. i<0
| 6. i+1≥0 ⇒ P(i+1)
| 7. i≥0
| ⊢  P(i)  by Auto
|
|\
| 4. 0≥0
| ⊢  P(0)  by Auto
|
.\
. 4. i : ℤ
. 5. 0<i
. 6. i-1≥0 ⇒ P(i-1)
. 7. i≥0
. ⊢  P(i)  by (BackThru 3) THEN (BackThru 6)
END
```