```
hgreater_or_eq  THM

⊢  all(λm:hnum. all(λn:hnum. equal(ge(m,n),or(gt(m,n),equal(m,n)))))
| by HN THEN StrongAuto THEN Try (Complete (Unfold `label` 0))
|
1. m : ℕ
2. n : ℕ
⊢  (n≤_2 m) = (n<_2 m ∨_2 (m =_b n))
| by Simpsetp [`bequal`] THEN StrongAuto
|    THEN
|    Try (Complete (Unfold `label` 0))
|
|\
| 1. m : ℕ
| 2. n : ℕ
| 3. n≤m
| ⊢  n<m ∨ m = n
| | by Decide (n<m) THEN StrongAuto
| |    THEN
| |    Try (Complete (Unfold `label` 0))
| |
| 1. m : ℕ
| 2. n : ℕ
| 3. n≤m
| 4. ¬n<m
| ⊢  n<m ∨ m = n
|   by DRight THEN StrongAuto THEN Try (Complete (Unfold `label` 0))
|
.\
. 1. m : ℕ
. 2. n : ℕ
. 3. n<m ∨ m = n
. ⊢  n≤m
.   by Analyze 3 THEN StrongAuto
.      THEN
.      Try (Complete (Unfold `label` 0))
END
```