```
stamps_sfa  THM

⊢  ∀i:{8...}. ∃m,n:ℕ. 3•m+5•n = i  by NSubsetInd Concl
|
|\
| .....basecase .....
| 1. i : ℤ
| 2. 0<i
| 3. 8 = i
| ⊢  ∃m,n:ℕ. 3•m+5•n = i  by Witness: 1 | 1
|
.\
. .....upcase .....
. 1. i : ℤ
. 2. 8<i
. 3. ∃m,n:ℕ. 3•m+5•n = i-1
. ⊢  ∃m,n:ℕ. 3•m+5•n = i  by ExistHD Hyp:-1
. |
. 3. m : ℕ
. 4. n : ℕ
. 5. 3•m+5•n = i-1
. ⊢  ∃m,n:ℕ. 3•m+5•n = i  by Decide: n = 0
. |
. |\
. | 6. n = 0
. | ⊢  ∃m,n:ℕ. 3•m+5•n = i  by m≥3  Asserted
. | |
. | 7. m≥3
. | ⊢  ∃m,n:ℕ. 3•m+5•n = i  by Witness: m-3 | n+2
. |
. .\
. . 6. ¬n = 0
. . ⊢  ∃m,n:ℕ. 3•m+5•n = i  by Witness: m+2 | n-1
END
```