

stamps_sfa THM

```
| ⊢ ∀i:{8...}. ∃m,n:N. 3·m+5·n = i by NSubsetInd Concl
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| \
|   ....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
```