# Stamps Proof

```
├ ∀i:{8...}.  ∃m,n: ℕ.  3 * m + 5 * n = i
|
BY D 0 THENA Auto•
|
1. i:{8...}
├ ∃m,n:ℕ.  3 * m + 5 * n = i
|
BY NSubsetInd 1
|  THEN Auto•
|\
| 1. i:ℤ
| 2. 0 < i
| 3. 8 = i
| |
1 BY Dterm ⌈1⌉ 0 THENM Dterm ⌈1⌉ 0 THEN Auto•
 \
  | 1. i:ℤ
  | 2. 8 < i
  | 3. ∃m,n:ℕ.  3 * m + 5 * n = i - 1
  |
  BY D 3 THEN D 4•
  |
  3. m:ℕ
  4. n:ℕ
  5. 3 * m + 5 * n = i - 1
  |
  BY Decide ⌈n > 0⌉ THENA Auto•
  |\
  | 6. n > 0
  | |
  1 BY Dterm ⌈m + 2⌉ 0 THENM Dterm ⌈n - 1⌉ 0 THEN Auto•
   \
   6. ¬(n > 0)
   |
   BY Dterm ⌈m - 3⌉ 0 THENM Dterm ⌈n + 2⌉ 0 THEN Auto•
   |
   ├ 0 ≤ m - 3
   |
   BY SupIf THEN Auto
```