```
sq_stable__coprime  THM

⊢  ∀i,j:ℤ. SqStable(CoPrime(i,j))
| by RepUnfolds [‘sq_stable‘;‘coprime‘;‘gcd_p‘] 0
|
|\
| 1. i : ℤ
| 2. j : ℤ
| 3. ↓(1 | i & 1 | j & (∀z:ℤ. z | i & z | j ⇒ z | 1))
| ⊢  1 | i  by Witness i
|
|\
| 1. i : ℤ
| 2. j : ℤ
| 3. ↓(1 | i & 1 | j & (∀z:ℤ. z | i & z | j ⇒ z | 1))
| ⊢  1 | j  by Witness j
|
.\
. 1. i : ℤ
. 2. j : ℤ
. 3. ↓(1 | i & 1 | j & (∀z:ℤ. z | i & z | j ⇒ z | 1))
. 4. z : ℤ
. 5. z | i
. 6. z | j
. ⊢  z | 1  by Analyze 3 THEN Unhide
. |
. 3. 1 | i
. 4. 1 | j
. 5. ∀z:ℤ. z | i & z | j ⇒ z | 1
. 6. z : ℤ
. 7. z | i
. 8. z | j
. ⊢  z | 1  by HypBackchain
END
```