```
⊢ ∀[P:ℙ]. (¬¬(P ∨ (¬P)))
|
BY (UD THENA Auto)
|
[1]. P: ℙ
⊢ ¬¬(P ∨ (¬P))
|
BY (D 0 THENA Auto)
|
2. ¬(P ∨ (¬P))
⊢ False
|
BY Duplicate 2
|
3. ¬(P ∨ (¬P))
⊢ False
|
BY (Unfold `not` 3 THEN D 3)
|\
| ⊢ P ∨ (P ⇒ False)
| |
1 BY (OrRight THENA Auto)
| |
| ⊢ P ⇒ False
| |
1 BY (D 0 THENA Auto)
| |
| 3. P
| ⊢ False
| |
1 BY (Unfold `not` 2 THEN D 2)
| |\
| | 2. P
| | ⊢ P ∨ (P ⇒ False)
| | |
1 2 BY (OrLeft THENA Auto)
| | |
| | ⊢ P
| | |
1 2 BY NthHyp 2
|  \
|   2. P
|   3. False
|   ⊢ False
|   |
1   BY NthHyp 3
 \
  3. False
  ⊢ False
  |
  BY NthHyp 3
```

```
Extract: λf.(f (inr (λp.(f (inl p))) ))
    where f : ¬(P ∨ (¬P)) ≡ ((P ∨ (¬P)) ⇒ False)
          p : P
```