

[\[Browse source program\]](#) [\[Execute source program\]](#)

```
import Cards

fullHouseConstraint hand | hand == x++u:y++v:z
                        & map rank (x++y++z) == [r,r,r]
                        & rank u == rank v
                        = (r,rank u)
                        where x,y,z,u,v,r free

testYes = [(Card Ace Club),(Card Two Spade),(Card Ace Heart),
           (Card Two Heart),(Card Two Diamond)]
testNo  = [(Card Six Club),(Card Ace Spade),(Card Five Heart),
           (Card Ace Club),(Card Six Diamond)]

-- fullHouseConstraint testNo => no solution
-- fullHouseConstraint testYes => (Two,Ace)
```