Problem 8

Let's assume equivalent cards will have same account number

```
A ← list of cards with account numbers
```

Return A1

ELIF count_A2 > n_half + 1:

```
Def equivalence(A)
IF len(A) == 0
        Return -1
IF len(A) == 1
        Return A[0]
IF len(A) == 2 and A[0] == A[1]
        Return A[0]
ELIF len(A) == 2 and A[0] != A[1]
        Return -1
n_half = floor{len(A)/2}
A1 = equivalence(A[0,1,2....n_half]): // first half of the list
A2 = equivalence(A[n_half+1, ....n]):
                                                // second half of list
IF A1 == A2:
        Return A1
count_A1 = 0
count_A2 = 0
FOR i in range(len(A)):
        IF A[i] == A1:
                count_A1 ++
        ELIF A[i] == A2:
                count_A2 ++
IF count_A1 > n_half + 1:
```

Return A2

ELSE:

Return -1