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Homework 2

Reflection:

This assignment was challenging but I really enjoyed it. Comparing this assignment to last semester 241 I feel like I can visualize the code a lot better, and it makes it a lot easier and a lot more enjoyable to do the assignment for me. Connecting the parts together and having an output that I can see and understand helps me a lot. I think I nailed the extra credit as well by inserting a human player to play alongside the AI's.

Card

```
package homework2;

import homework2.Interface.TheCard;

public class Card implements TheCard
{
    private int number;
    private int rank;
    private int suit;
    private int pairNumber;

    public Card(int S)
    {
        number = S;
        rank = S/4;
        suit = S%4;
        pairNumber = setPairNumber();
    }
    public Card(int S, int T)
    {
        number = (S-1)*4+T-1;
        rank = S-1;
        suit = T-1;
        pairNumber = setPairNumber();
    }
    public Card()
    {
        number = 1;
        rank = 0;
        suit = 0;
    }
    public int getNumber()
    {
        return number;
    }
}
```

```

public int getRank()
{
    return rank;
}
public int getSuit()
{
    return suit;
}
public int getPairNumber()
{
    return pairNumber;
}
public String getRankCard()
{
    String rankfr = new String();
    switch (rank) {
        case 0: rankfr = "ACE";
        break;
        case 1: rankfr = "TWO";
        break;
        case 2: rankfr = "THREE";
        break;
        case 3: rankfr = "FOUR";
        break;
        case 4: rankfr = "FIVE";
        break;
        case 5: rankfr = "SIX";
        break;
        case 6: rankfr = "SEVEN";
        break;
        case 7: rankfr = "EIGHT";
        break;
        case 8: rankfr = "NINE";
        break;
        case 9: rankfr = "TEN";
        break;
        case 10: rankfr = "JACK";
        break;
        case 11: rankfr = "QUEEN";
        break;
        case 12: rankfr = "KING";
        break;
        default: rankfr = "Invalid rank";
        break;
    }
    return rankfr;
}
public String getSuitCard()
{
    String suitfr = new String();
    switch (suit) {
        case 0: suitfr = "HEARTS";
        break;
        case 1: suitfr = "DIAMONDS";
        break;
    }
}

```

```

        case 2: suitfr = "CLUBS";
        break;
        case 3: suitfr = "SPADES";
        break;
        default: suitfr = "Invalid suit";
        break;
    }
    return suitfr;
}
public String getCard()
{
    return getRankCard()+" of "+getSuitCard();
}
public void printCard()
{
    System.out.println(getRankCard()+" of "+getSuitCard());
}
public int setPairNumber()
{
    if (suit<2)
    {
        pairNumber=suit*13+rank;
    }
    else if (suit==2)
    {
        pairNumber=3*13+12-rank;
    }
    else if (suit==3)
    {
        pairNumber=2*13+12-rank;
    }
    return pairNumber;
}
@Override
public boolean isPair(Card two)
{
    if (this.pairNumber + two.getPairNumber() == 51)
    {
        return true;
    }
    else
    {
        return false;
    }
}
}

```

Hand

```

package homework2;

import java.util.*;

import homework2.Interface.TheHand;

```

```

public class Hand extends Deck implements TheHand
{
    boolean human;
    String nameCPU;
    boolean firstPlayer;

    public Hand(int S, Deck pick, boolean B, Card removed)
    {
        super(0);
        human=B;

        String names[]={ "Drew", "Dr. Hu", "Noah", "Hayden", "Josh", "Bobby",
        "Peaches", "Fruit", "Mike", "Ethan"};

        Random generator = new Random();
        int random = generator.nextInt(names.length);
        nameCPU=names[random];
        Card newCard;

        firstPlayer = false;

        for (int i = 0; i < S; i++)
        {
            newCard=takeCard(pick,0);
            if ( ( removed.getNumber() ) == 51 )
            {
                if ( (newCard.getNumber()) == 25)
                {
                    firstPlayer = true;
                }
            }
            else if ( (newCard.getNumber() ) == 51)
            {
                firstPlayer = true;
            }
        }

        if(B)
        {
            showCards();
        }
    }
    public String getNameCPU()
    {
        return nameCPU;
    }

    public boolean getFirstPlayer()
    {
        return firstPlayer;
    }

    public Card takeRandomCard(Deck two)
    {

```

```

        Random generator = new Random();
        int numTaken = generator.nextInt(two.getNumber() );

        return addCardTop(two.drawCard(numTaken) );
    }
}

```

Deck

```

package homework2;

import java.util.*;

import homework2.Interface.TheDeck;

public class Deck implements TheDeck
{
    int number;
    ArrayList<Integer> numTaken;
    ArrayList<Integer> numNotTaken;

    public Deck(int S)
    {
        number = 0;
        numTaken= new ArrayList<Integer>();
        numNotTaken= new ArrayList<Integer>();

        for (int i = 0; i < 52; i++)
        {
            numNotTaken.add(i);
        }

        Collections.shuffle(numNotTaken);

        for (int i = 0; i < S; i++)
        {
            addCardTop();
        }
    }

    public Deck()
    {
        number = 52;
        numTaken= new ArrayList<Integer>();
        numNotTaken= new ArrayList<Integer>();

        for (int i = 0; i < number; i++)
        {
            numTaken.add(i);
        }

        Collections.shuffle(numTaken);
    }

    public ArrayList<Integer> getNumTaken()

```

```

{
    return numTaken;
}

public ArrayList<Integer> getNumNotTaken()
{
    return numNotTaken;
}

public int getNumber()
{
    return number;
}

public Card drawCard()
{
    Random generator = new Random();
    int notDrew = generator.nextInt(numTaken.size());
    Card takenCard = new Card(numTaken.get(notDrew));
    Integer Ndrew = new Integer(notDrew);
    numNotTaken.add(Ndrew);
    shuffleAntiCards();
    numTaken.remove(notDrew);
    number--;

    return takenCard;
}

public Card drawCard(int position)
{
    Card takenCard = new Card(numTaken.get(position));
    Integer Ndrew = new Integer(position);
    numNotTaken.add(Ndrew);
    shuffleAntiCards();
    numTaken.remove(position);
    number--;
    return takenCard;
}

public Card addCardTop()
{
    Card ToBeAdded = null;
    if (number == 52)
    {
        System.out.println("Impossible");
    }
    else
    {
        numTaken.add(numNotTaken.get(0) );
        int number = (numNotTaken.get(0) ).intValue();
        ToBeAdded = new Card(number);
        numNotTaken.remove(0);
    }

    number++;
}

```

```

        return ToBeAdded;
    }

    public Card addCardTop(Card added)
    {
        int cardNumber = added.getNumber();

        if (number == 52)
        {
            System.out.println("Impossible");
        }
        else
        {
            if (number == 0)
            {
                numTaken.add(cardNumber);
            }
            else
            {
                numTaken.add(cardNumber);
            }

            for(int i = 0; i < 52 - number; i++)
            {
                if ((numNotTaken.get(i)) == cardNumber)
                {
                    numNotTaken.remove(i);
                    number++;
                    return added;
                }
            }
        }
        number++;
        return added;
    }

    public Card addCard()
    {
        Card ToBeAdded = null;
        if (number == 52) System.out.println("Impossible");
        else
        {
            Random generator = new Random();
            int input = generator.nextInt(numTaken.size());
            numTaken.add(input, numNotTaken.get(0));
            int number = (numNotTaken.get(0)).intValue();
            ToBeAdded = new Card(number);
            numNotTaken.remove(0);
        }
        number++;
        return ToBeAdded;
    }

    public Card addCard(Card added)

```

```

{
    int cardNumber = added.getNumber();
    if (number == 52)
    {
        System.out.println("Impossible");
    }
    else
    {
        Random generator = new Random();
        if (number == 0)
        {
            numTaken.add(cardNumber);
        }
        else
        {
            int input = generator.nextInt(number);
            numTaken.add(input, cardNumber);
        }
        for(int i = 0; i < 52 - number; i++)
        {
            if ( (numNotTaken.get(i) ) == cardNumber)
            {
                numNotTaken.remove(i);
                number++;
                return added;
            }
        }
    }

    number++;

    return added;
}

public void showCards()
{
    int numberS;
    String zero = new String("");
    for (int i = 0; i < number; i++)
    {
        numberS = i + 1;
        if (numberS < 10)
        {
            zero="0";
        }
        else
        {
            zero="";
        }
        Card cardinhand = new Card(numTaken.get(i) );
        System.out.println("Card number: " + zero + numberS + " : " +
cardinhand.getRankCard() + " of "+ cardinhand.getSuitCard() );
    }
}

```



```

public void printCard(int position)
{
    Card card = new Card(numTaken.get(position));
    card.printCard();
}

public void shuffleCards()
{
    Collections.shuffle(numTaken);
}

public void shuffleAntiCards()
{
    Collections.shuffle(numNotTaken);
}

public int calculatePairNumber(int S)
{
    int rank = S / 4;
    int suit = S % 4;
    int pairNumber = 0;
    if (suit < 2)
    {
        pairNumber = suit * 13 + rank;
    }
    else if (suit == 2)
    {
        pairNumber = 3 * 13 + 12 - rank;
    }
    else if (suit == 3)
    {
        pairNumber = 2 * 13 + 12 - rank;
    }

    return pairNumber;
}

public boolean isPair(int i, int j)
{
    if (calculatePairNumber(numTaken.get(i)) +
calculatePairNumber(numTaken.get(j)) == 51)
    {
        return true;
    }
    else
    {
        return false;
    }
}

public boolean isPair(Card one, Card two)
{
    if (one.getPairNumber() + two.getPairNumber() == 51)
    {
        return true;
    }
}

```

```

    }
    else
    {
        return false;
    }
}

public boolean isDouble()
{
    boolean ok=false;
    for (int i = 0; i < number - 1 && !ok; i++)
    {
        if (isPair(i,number - 1) )
        {
            removePairs(i, number - 1);
            ok = true;
        }
    }

    return ok;
}

public Card lookCard(Deck two, int cardPosition)
{
    Card looked = new Card( (two.getNumTaken() ).get(cardPosition) );
    return looked;
}

public Card takeCard(Deck two, int cardPosition)
{
    return addCardTop(two.drawCard(cardPosition));
}

public void removePairs(int i, int j)
{
    System.out.print(" ");
    printCard(i);

    System.out.print("+ ");
    printCard(j);

    System.out.print("\n");
    drawCard(i);
    drawCard(j - 1);
}

public int removePairs()
{
    int drawndoubles=0;
    for(int i = 0, j; i < number ;i++)
    {
        for(j = i + 1; j < number; j++)
        {
            if (isPair(i, j) )
            {

```

```

        removePairs(i,j);
        drawndoubles++;
        j=i;
    }
}
if (j != number)
{
    i--;
}
}

return drawndoubles;
}
}

```

Main

```

package homework2;

public class Main
{
    public static void main(String[] args)
    {
        // TODO Auto-generated method stub
        Game game = new Game();
    }
}

```

Game

e homework2;

import java.util.*;

import homework2.Interface.TheGame;

public class Game implements TheGame

{

Scanner sc;

int numOfPlayers;

int playersPlaying;

```
_____Deck deck;
_____String answer;
_____ArrayList <Hand> hands;
_____Card removed;
_____int turn;
_____ArrayList <Integer> turnsPlayed;

_____public Game()
_____{
_____
_____sc = new Scanner(System.in);
_____deck = new Deck(52);
_____Deck used = new Deck(0);
_____System.out.println("Give a number between 1 and 52: ");

_____int removedCard = sc.nextInt();

_____removed = deck.lookCard(deck, removedCard - 1);
_____used.takeCard(deck, removedCard - 1);

_____System.out.println("Give the number of players including yourself");

_____numOfPlayers = sc.nextInt();
_____playersPlaying = numOfPlayers;
_____sc.nextLine();
_____askShuffle();

_____int cardsperplayer = 51 / numOfPlayers;
```

```

_____ int leftcards = 51 - numOfPlayers*cardsperplayer;
_____ hands = new ArrayList <Hand> ();
_____ System.out.println("Your starting hand is: ");
_____ hands.add(new Hand(cardsperplayer, deck, true, removed));
_____ turnsPlayed = new ArrayList <Integer>();
_____ turnsPlayed.add(0);
_____
_____ for (int i = 0; i < numOfPlayers - 1; i++)
_____ {
_____     turnsPlayed.add(0);
_____     hands.add(new Hand(cardsperplayer,deck,false,removed));
_____     if (leftcards>0)
_____     {
_____         (hands.get(i)).takeCard(deck,0);
_____         leftcards--;
_____     }
_____ }
_____
_____ System.out.println("");
_____
_____ System.out.println("Your pairs are: ");
_____ (hands.get(0)).removePairs();
_____ for (int i = 1; i< numOfPlayers; i++)
_____ {
_____     System.out.println( (hands.get(i) ).getNameCPU() + "s pairs are: ");
_____     (hands.get(i) ).removePairs();
_____ }
_____ turn=1;
_____ boolean continuegame;

```

```

_____ playFirstTurn();

_____ turn++;

_____ while (continuegame==playTurn())
_____ {
_____     checkHands();
_____     System.out.println("Game starts on turn " + turn);
_____     if(continuegame) turn++;
_____ }

_____ System.out.println("Game finished on turn " + turn);

_____ stats();
_____ }

_____ public void askToPickCard(int playernumber)
_____ {
_____     int playerNumber = playernumber-1;
_____     int max = (hands.get(playerNumber) ).getNumber();
_____     int pos = 0;
_____     do
_____     {
_____         if (pos > max) System.out.print("\nError");
_____         System.out.println("You remove a card from the next player, " +
(hands.get(playerNumber) ).getNameCPU() + " (" + (playerNumber+1) + "). Give a position (1-" + max
+ ").");
_____         pos = sc.nextInt();
_____         sc.nextLine();

_____     }while(pos > max);
_____     pos--;

```

```

_____ Card newcard = (hands.get(0) ).takeCard(hands.get(playerNumber),pos);

_____ System.out.print("You remove a card from the next player, " +
(hands.get(playerNumber) ).getNameCPU() + " (" + (playerNumber + 1) + ") : ");

_____ newcard.printCard();

_____ if(! (hands.get(0) ).isDouble() ) )
_____ {

_____ System.out.println("Too bad... No new pair was created");

_____ }

_____ }

_____

_____ public void askShuffle()

_____ {

_____ System.out.println("Do you want to shuffle your hand [Y/N]");

_____

_____ boolean ok = false;

_____ do

_____ {

_____ answer = sc.nextLine();

_____ ok = (answer.equals("Y") ) || (answer.equals("y") ) || (answer.equals("N") ) ||
(answer.equals("n") );

_____ if (!ok)

_____ {

_____ System.out.print("\nError");

_____ }

_____

_____ }while (!ok);

_____

_____ if ( (answer.equals("N") ) || (answer.equals("n") ) )

```

```

_____ {
_____ System.out.println("");
_____ }
_____ }
_____

_____ public void shufflePlayer()
_____ {
_____ if ( (answer.equals("Y")) || (answer.equals("y")) )
_____ {
_____ (hands.get(0) ).shuffleCards();
_____
_____ System.out.println("Shuffled hand: ");
_____
_____ (hands.get(0) ).showCards();
_____ }
_____ }
_____

_____ public boolean playTurnUser()
_____ {
_____ if ( ( (hands.get(0)).getNumber() ) == 0)
_____ {
_____ return false;
_____ }
_____ boolean ok = false;
_____
_____ for (int i=numOfPlayers;i>1&&!ok;i--)
_____ {
_____ ok = ( ( (hands.get(i-1) ).getNumber() ) !=0);
_____
_____ if (ok)

```



```

_____{
_____askToPickCard(i);
_____}
_____}

_____if ( ( (hands.get(0) ).getNumber() ) == 0)
_____{
_____return false;
_____}
_____else
_____{
_____System.out.println("Your hand: ");
_____(hands.get(0) ).showCards();
_____System.out.println("");

_____shufflePlayer();
_____System.out.println("");

_____return true;
_____}
_____}
_____

_____public boolean playTurnCPU(int playernumber)
_____{
_____int playerNumber = playernumber - 1;

_____if ( ( (hands.get(playerNumber) ).getNumber() ) ==0)
_____{
_____return false;

```

```

_____}
_____Card taken = null;
_____boolean ok = false;

_____for (int i = playerNumber; i > 0 && !ok; i--)
_____
_____    ok = (((hands.get(i-1)).getNumber())!=0);
_____    if (ok)
_____    {
_____        taken = (hands.get(playerNumber) ).takeRandomCard(hands.get(i - 1)
);
_____
_____        if (playerNumber == 1)
_____        {
_____            System.out.print( (hands.get(playerNumber) ).getNameCPU()
+ " (" + (playerNumber + 1) + ") Take your card: ");
_____        }
_____        else
_____        {
_____            System.out.print( (hands.get(playerNumber) ).getNameCPU()
+ " (" + (playerNumber + 1) + ") take card of "+(hands.get(i - 1) ).getNameCPU() + " (" + (i) + ") : ");
_____        }
_____        taken.printCard();
_____        System.out.println("");
_____        (hands.get(playerNumber) ).isDouble();
_____    }
_____}
_____}

_____if (taken == null)
_____
_____    {

```

```

_____ for (int i = numOfPlayers; i > playerNumber + 1 && !ok; i--)
_____ {
_____ ok = (((hands.get(i-1)).getNumber())!=0);
_____ if (ok)
_____ {
_____ taken =
(hands.get(playerNumber)).takeRandomCard(hands.get(i-1));
_____ if (playerNumber == 1)
_____ {
_____ System.out.print( (hands.get(playerNumber)
).getNameCPU() + " (" + (playerNumber + 1) + ") Take your card: ");
_____ }
_____ else
_____ {
_____ System.out.print( (hands.get(playerNumber)
).getNameCPU() + " (" + (playerNumber+1) + ") take card of " + (hands.get(i - 1) ).getNameCPU() + " ("
+ (i) + ") : ");
_____ }
_____ taken.printCard();
_____
_____ System.out.println("");
_____
_____ (hands.get(playerNumber) ).isDouble();
_____ }
_____ }
_____ }

_____ if ( ( (hands.get(playerNumber)).getNumber() ) == 0)
_____ {
_____ return false;

```

```

_____  

    }  

_____  

    else  

_____  

    {  

_____  

        (hands.get(playerNumber) ).shuffleCards();  

_____  

        return true;  

_____  

    }  

_____  

}  

_____  

  

_____  

    public int qualify(int playernumber)  

_____  

    {  

_____  

        int playerNumber = playernumber - 1;  

_____  

  

_____  

        if (playerNumber == 0)  

_____  

        {  

_____  

            System.out.println("You no longer have a card! Nice job!");  

_____  

        }  

_____  

  

_____  

        turnsPlayed.set(playerNumber,turn);  

_____  

  

_____  

        playersPlaying--;  

_____  

  

_____  

        return turn;  

_____  

    }  

_____  

  

_____  

    public boolean playFirstTurn()  

_____  

    {  

_____  

        if ( (hands.get(0) ).getFirstPlayer() )  

_____  

        {  

_____  

            System.out.println("You have the queen...Start!");  


```

```

_____ return true;
_____ }
_____ else
_____ {
_____ int firstone = - 1;
_____ for (int i = 1; i < numOfPlayers; i++)
_____ {
_____ if ( (hands.get(i) ).getFirstPlayer() ) firstone = i;
_____ }
_____
_____ boolean toqualify=false;
_____
_____ System.out.println( (hands.get(firstone) ).getNameCPU() + " (" + (firstone + 1) +
") Begin! ");
_____
_____ for (int i=firstone;i<numOfPlayers;i++)
_____ {
_____ if ( (turnsPlayed.get(i) ) == 0)
_____ {
_____ toqualify=!playTurnCPU(i+1);
_____ }
_____
_____ if (toqualify && ( (turnsPlayed.get(i) ) == 0) )
_____ {
_____ System.out.println( (hands.get(i) ).getNameCPU() + " (" + (i + 1)
+ ") no more cards");
_____ qualify(i + 1);
_____
_____ if (playersPlaying==1)

```

```

_____{
_____return false;
_____}
_____}
_____}
_____System.out.println("Number of players is: "+playersPlaying);
_____}
_____if (playersPlaying==1)
_____{
_____return false;
_____}
_____else
_____{
_____return true;
_____}
_____}
_____}
_____public boolean playTurn()
_____{
_____boolean toqualify=false;
_____if ( (turnsPlayed.get(0) ) == 0)
_____{
_____toqualify =! playTurnUser();
_____}
_____if (toqualify && ( (turnsPlayed.get(0) ) == 0) )
_____{
_____System.out.println("You are good!");
_____qualify(1);

```

```

        if (playersPlaying==1) return false;
    }

    for (int i = 1; i < numOfPlayers; i++)
    {
        if ((turnsPlayed.get(i) ) == 0)
        {
            toqualify =! playTurnCPU(i + 1);
        }
        if (toqualify && ( turnsPlayed.get(i) ) == 0 )
        {
            System.out.println( (hands.get(i) ).getNameCPU() + " (" + (i + 1) + ") no
more cards");
            qualify(i + 1);
            if (playersPlaying == 1)
            {
                return false;
            }
        }
    }

    System.out.println("Number of players is: " + playersPlaying);
    if (playersPlaying == 1)
    {
        return false;
    }
    else
    {
        return true;
    }
}

```

```

_____]
_____
_____ public void checkHands()
_____ {
_____ System.out.println("You have "+(hands.get(0)).getNumber()+" cards");
_____ for (int i=1;i<numOfPlayers;i++)
_____ {
_____ System.out.println((hands.get(i)).getNameCPU()+" ("+(i+1)+") a :
"+(hands.get(i)).getNumber()+" cards");
_____ }
_____ }
_____
_____ public void stats()
_____ {
_____ int nloser=-1;
_____
_____ if ( (turnsPlayed.get(0) ) != 0)
_____ {
_____ System.out.println("You won after "+turnsPlayed.get(0) + " turns!");
_____ }
_____
_____ for (int i=1;i<numOfPlayers;i++)
_____ {
_____ turnsPlayed.add(0);
_____
_____ if ( (turnsPlayed.get(i) ) == 0)
_____ {
_____ nloser = i;
_____ }
_____ }

```



```

_____ else
_____ {
_____ System.out.println( (hands.get(i) ).getNameCPU() + " ("+(i + 1) + ") won
after "+turnsPlayed.get(i) + " turns!");
_____ }
_____ }
_____ if (nloser == -1)
_____ {
_____ System.out.println("After " + turn + " turns you lost!");

_____ System.out.println("You had the queen: ");
_____ (hands.get(0)).printCard(0);

_____ System.out.print("You removed the: ");

_____ removed.printCard();
_____ }
_____ else
_____ {
_____ System.out.println((hands.get(nloser)).getNameCPU()+" ("+(nloser+1)+") lost
after " + turn + " turns!");
_____ }
_____ }
}

```

Interface

```

package homework2;

import java.util.ArrayList;

public class Interface
{

```

```

interface TheDeck
{
    public ArrayList<Integer> getNumTaken();

    public ArrayList<Integer> getNumNotTaken();

    public int getNumber();

    public Card drawCard();

    public Card drawCard(int position);

    public Card addCardTop();

    public Card addCardTop(Card added);

    public Card addCard();

    public Card addCard(Card added);

    public void showCards();

    public void printCard(int position);

    public void shuffleCards();

    public void shuffleAntiCards();

    public int calculatePairNumber(int S);

    public boolean isPair(int i, int j);

    public boolean isPair(Card one, Card two);

    public boolean isDouble();

    public Card lookCard(Deck two, int cardPosition);

    public Card takeCard(Deck two, int cardPosition);

    public void removePairs(int i, int j);

    public int removePairs();

}

```

```

interface TheHand
{
    public String getNameCPU();

    public boolean getFirstPlayer();

    public Card takeRandomCard(Deck two);
}

```

```

    }

    interface TheCard
    {
        public int getNumber();

        public int getRank();

        public int getSuit();

        public int getPairNumber();

        public String getRankCard();

        public String getSuitCard();

        public String getCard();

        public void printCard();

        public int setPairNumber();

        public boolean isPair(Card two);
    }

    interface TheGame
    {
        public void askToPickCard(int playernumber);

        public void askShuffle();

        public void shufflePlayer();

        public boolean playTurnUser();

        public boolean playTurnCPU(int playernumber);

        public int qualify(int playernumber);

        public boolean playFirstTurn();

        public boolean playTurn();

        public void checkHands();

        public void stats();
    }
}

```

Output

Give a number between 1 and 52:

2

Give the number of players including yourself

2

Do you want to shuffle your hand [Y/N]

n

Your starting hand is:

Card number: 01 : SEVEN of SPADES
Card number: 02 : ACE of SPADES
Card number: 03 : JACK of HEARTS
Card number: 04 : EIGHT of HEARTS
Card number: 05 : FIVE of CLUBS
Card number: 06 : TEN of DIAMONDS
Card number: 07 : FOUR of SPADES
Card number: 08 : QUEEN of DIAMONDS
Card number: 09 : TEN of HEARTS
Card number: 10 : TEN of SPADES
Card number: 11 : ACE of DIAMONDS
Card number: 12 : QUEEN of SPADES
Card number: 13 : SIX of DIAMONDS
Card number: 14 : KING of SPADES
Card number: 15 : NINE of DIAMONDS
Card number: 16 : NINE of CLUBS
Card number: 17 : NINE of SPADES
Card number: 18 : KING of DIAMONDS
Card number: 19 : JACK of DIAMONDS
Card number: 20 : SIX of HEARTS
Card number: 21 : TEN of CLUBS
Card number: 22 : EIGHT of DIAMONDS
Card number: 23 : FIVE of DIAMONDS
Card number: 24 : SIX of SPADES
Card number: 25 : EIGHT of CLUBS

Your pairs are:

ACE of SPADES
+ ACE of DIAMONDS

EIGHT of HEARTS
+ EIGHT of CLUBS

TEN of DIAMONDS
+ TEN of SPADES

QUEEN of DIAMONDS
+ QUEEN of SPADES

TEN of HEARTS
+ TEN of CLUBS

SIX of DIAMONDS
+ SIX of SPADES

KING of SPADES
+ KING of DIAMONDS

NINE of DIAMONDS
+ NINE of SPADES

SIX of HEARTS
+ SIX of CLUBS

Fruits pairs are:
TWO of DIAMONDS
+ TWO of SPADES

THREE of DIAMONDS
+ THREE of SPADES

TWO of CLUBS
+ TWO of HEARTS

ACE of HEARTS
+ ACE of CLUBS

KING of HEARTS
+ KING of CLUBS

FOUR of HEARTS
+ FOUR of CLUBS

THREE of CLUBS
+ THREE of HEARTS

SEVEN of HEARTS
+ SEVEN of CLUBS

You have the queen...Start!

You remove a card from the next player, Fruit (2). Give a position (1-9).

1

You remove a card from the next player, Fruit (2) : JACK of CLUBS

JACK of HEARTS
+ JACK of CLUBS

Your hand:

Card number: 01 : SEVEN of SPADES
Card number: 02 : FIVE of CLUBS
Card number: 03 : FOUR of SPADES
Card number: 04 : NINE of CLUBS
Card number: 05 : JACK of DIAMONDS
Card number: 06 : EIGHT of DIAMONDS
Card number: 07 : FIVE of DIAMONDS

Fruit (2) Take your card: FIVE of CLUBS

FIVE of HEARTS
+ FIVE of CLUBS

Number of players is: 2
You have 6 cards

Fruit (2) a : 7 cards
Game starts on turn 2
You remove a card from the next player, Fruit (2). Give a position (1-7).

1

You remove a card from the next player, Fruit (2) : NINE of HEARTS
NINE of CLUBS
+ NINE of HEARTS

Your hand:
Card number: 01 : SEVEN of SPADES
Card number: 02 : FOUR of SPADES
Card number: 03 : JACK of DIAMONDS
Card number: 04 : EIGHT of DIAMONDS
Card number: 05 : FIVE of DIAMONDS

Fruit (2) Take your card: SEVEN of SPADES

SEVEN of DIAMONDS
+ SEVEN of SPADES

Number of players is: 2
You have 4 cards
Fruit (2) a : 5 cards
Game starts on turn 3
You remove a card from the next player, Fruit (2). Give a position (1-5).

1

You remove a card from the next player, Fruit (2) : FOUR of DIAMONDS
FOUR of SPADES
+ FOUR of DIAMONDS

Your hand:
Card number: 01 : JACK of DIAMONDS
Card number: 02 : EIGHT of DIAMONDS
Card number: 03 : FIVE of DIAMONDS

Fruit (2) Take your card: EIGHT of DIAMONDS

EIGHT of SPADES
+ EIGHT of DIAMONDS

Number of players is: 2
You have 2 cards
Fruit (2) a : 3 cards
Game starts on turn 4
You remove a card from the next player, Fruit (2). Give a position (1-3).

1

You remove a card from the next player, Fruit (2) : JACK of SPADES
JACK of DIAMONDS
+ JACK of SPADES

Your hand:
Card number: 01 : FIVE of DIAMONDS

Fruit (2) Take your card: FIVE of DIAMONDS

FIVE of SPADES
+ FIVE of DIAMONDS

Number of players is: 2

You have 0 cards

Fruit (2) a : 1 cards

Game starts on turn 5

You are good!

You no longer have a card! Nice job!

Game finished on turn 6

You won after 6 turns!

Fruit (2) lost after 6 turns!