```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
namespace Poker
{
   public partial class mainForm : Form
        Hands hand = new Hands();
        SetTable setTable = new SetTable();
        List<Player> listOfPlayers = new List<Player>();
        String suit = "";
        int[] handNumbers = new int[] { 0, 0, 0, 0, 0, 0, 0 };
        List<int> playersList = new List<int>();
        //List<int> deck = new List<int>();
        int countFlop = 0;
        int[] flopCards = new int[] { 0, 0, 0, 0, 0 };
        int currentBettingPlayer = 0;
        int currentBettingPlayerCount = 0;
        Boolean allCardsShown = false;
        int countNumberOfPlayers = 0;
        int potAmount = 0;
        int currentBetAmount = 10:
        int currentRaiser = 0;
        Boolean played = false;
        List<int> strenghtList = new List<int> { }; Player player1 = new Player(
        Player player5 = new Player(); Player player6 = new Player(); Player player
        int[] pairs1 = new int[2]; int[] pairs2 = new int[2]; int[] pairs3 = new
        int[] pairs6 = new int[2]; int[] pairs7 = new int[2]; int[] pairs8 = new
        String[] resultAfterHandChecked1 = new string[9]; String[] resultAfterHa
        String[] resultAfterHandChecked4 = new string[9]; String[] resultAfterHa
        String[] resultAfterHandChecked7 = new string[9]; String[] resultAfterHa
        Result result1; Result result2; Result result3; Result result4; Result r
        List<Result> listOfResults = new List<Result> { };
```

```
public mainForm()
    InitializeComponent();
    int flipBtnLocation = (this.panel1.Size.Width - this.flipBtn.Size.Wi
    this.flipBtn.Location = new Point(flipBtnLocation, 220);;
}
// Event listeners to handle the player addition checkboxes
public void when1Checked(Object sender, EventArgs e)
   firstPlayerPanel.Visible = (firstPlayerPanel.Visible) ? false : true;
    countNumberOfPlayers = (firstPlayerPanel.Visible) ? countNumberOfPla
}
public void when2Checked(Object sender, EventArgs e)
    secondPlayerPanel.Visible = (secondPlayerPanel.Visible) ? false : tr
    countNumberOfPlayers = (secondPlayerPanel.Visible) ? countNumberOfPl
}
public void when3Checked(Object sender, EventArgs e)
    thirdPlayerPanel.Visible = (thirdPlayerPanel.Visible) ? false : true
    countNumberOfPlayers = (thirdPlayerPanel.Visible) ? countNumberOfPla
}
public void when4Checked(Object sender, EventArgs e)
    fourthPlayerPanel.Visible = (fourthPlayerPanel.Visible) ? false : tr
    countNumberOfPlayers = (fourthPlayerPanel.Visible) ? countNumberOfPl
}
public void when5Checked(Object sender, EventArgs e)
    fifthPlayerPanel.Visible = (fifthPlayerPanel.Visible) ? false : true
    countNumberOfPlayers = (fifthPlayerPanel.Visible) ? countNumberOfPla
}
public void when6Checked(Object sender, EventArgs e)
    sixthPlayerPanel.Visible = (sixthPlayerPanel.Visible) ? false : true
    countNumberOfPlayers = (sixthPlayerPanel.Visible) ? countNumberOfPla
}
public void when7Checked(Object sender, EventArgs e)
    seventhPlayerPanel.Visible = (seventhPlayerPanel.Visible) ? false :
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
}
public void when8Checked(Object sender, EventArgs e)
    eighthPlayerPanel.Visible = (eighthPlayerPanel.Visible) ? false : tr
    countNumberOfPlayers = (eighthPlayerPanel.Visible) ? countNumberOfPl
}
// start game button
private void startBtn_Click(object sender, EventArgs e)
    if (countNumberOfPlayers < 2)</pre>
    {
        MessageBox.Show("Please select at least two players.", "Select P
    }
    else
    {
        if(!played){
            playersList = setTable.setTable(firstPlayerPanel.Visible, se
        fourthPlayerPanel.Visible, fifthPlayerPanel.Visible, sixthPlayer
        seventhPlayerPanel.Visible, eighthPlayerPanel.Visible);
        setPlayers();
        disablePlayersBoxes();
        currentBettingPlayer = setTable.listOfPlayers[0].id;
        betTurn();
        potAmountlbl.Visible = true;
        potAmountlbl.Text = "Pot Amount: " + "$" + potAmount + ".00";
        currentBetAmountLbl.Text = "Current Bet Amount: " + "$" + curren
        played = true;
    }
}
// after table is set the initial cards are set up based on the list of
public void setPlayers()
{
    if(!played){
        listOfPlayers = setTable.dealCards();
    } else{
        for (int i = 0; i < listOfPlayers.Count; i++)</pre>
            listOfPlayers[i].hand = setTable.setPlayerCards();
    }
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
{
    if (listOfPlayers[i].id == 1)
        this.name1Lbl.Text = listOfPlayers[i].name;
        this.firstPmoneyLbl.Text = listOfPlayers[i].cash.ToString();
        this.firstPpicBox1.BackColor = Color.White;
        this.firstPpicBox2.BackColor = Color.White;
        this.firstPpicBox1.Load("../../images/png/" + correctedNumbe
this.firstPpicBox2.Load("../../images/png/" + correctedNumbe
    }
    if (listOfPlayers[i].id == 2)
        this.name2Lbl.Text = listOfPlayers[i].name;
        this.secondPmoneyLbl.Text = listOfPlayers[i].cash.ToString()
        this.secondPpicBox1.BackColor = Color.White;
        this.secondPpicBox2.BackColor = Color.White;
        this.secondPpicBox1.Load("../../images/png/" + correctedNumb
        this.secondPpicBox2.Load("../../images/png/" + correctedNumb
    }
    if (listOfPlayers[i].id == 3)
        this.name3Lbl.Text = listOfPlayers[i].name;
        this.thirdPmoneyLbl.Text = listOfPlayers[i].cash.ToString();
        this.thirdPpicBox1.BackColor = Color.White;
        this.thirdPpicBox2.BackColor = Color.White;
        this.thirdPpicBox1.Load("../../images/png/" + correctedNumbe
        this.thirdPpicBox2.Load("../../images/png/" + correctedNumbe
    }
    if (listOfPlayers[i].id == 4)
        this.name4Lbl.Text = listOfPlayers[i].name;
        this.fourthPmoneyLbl.Text = listOfPlayers[i].cash.ToString()
        this.fourthPpicBox1.BackColor = Color.White;
        this.fourthPpicBox2.BackColor = Color.White;
        this.fourthPpicBox1.Load("../../images/png/" + correctedNumb
        this.fourthPpicBox2.Load("../../images/png/" + correctedNumb
    }
    if (listOfPlayers[i].id == 5)
        this.name5Lbl.Text = listOfPlayers[i].name;
        this.fifthPmoneyLbl.Text = listOfPlayers[i].cash.ToString();
        this.fifthPpicBox1.BackColor = Color.White;
        this.fifthPpicBox2.BackColor = Color.White;
        this.fifthPpicBox1.Load("../../images/png/" + correctedNumbe
        this.fifthPpicBox2.Load("../../images/png/" + correctedNumbe
    }
    if (listOfPlayers[i].id == 6)
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
            this.thirdPmoneyLbl.Text = listOfPlayers[i].cash.ToString();
            this.sixthPpicBox1.BackColor = Color.White;
            this.sixthPpicBox2.BackColor = Color.White;
            this.sixthPpicBox1.Load("../../images/png/" + correctedNumbe
            this.sixthPpicBox2.Load("../../images/png/" + correctedNumbe
       }
       if (listOfPlayers[i].id == 7)
            this.name7Lbl.Text = listOfPlayers[i].name;
            this.seventhPmoneyLbl.Text = listOfPlayers[i].cash.ToString(
            this.seventhPpicBox1.BackColor = Color.White;
            this.seventhPpicBox2.BackColor = Color.White;
            this.seventhPpicBox1.Load("../../images/png/" + correctedNum
            this.seventhPpicBox2.Load("../../images/png/" + correctedNum
       }
       if (listOfPlayers[i].id == 8)
            this.name8Lbl.Text = listOfPlayers[i].name;
            this.eighthPmoneyLbl.Text = listOfPlayers[i].cash.ToString()
            this.eighthPpicBox1.BackColor = Color.White;
            this.eighthPpicBox2.BackColor = Color.White;
            this.eighthPpicBox1.Load("../../images/png/" + correctedNumb
            this.eighthPpicBox2.Load("../../images/png/" + correctedNumb
       }
   }
}
public void disablePlayersBoxes()
    if (startBtn.Visible)
    {
        firstPPlayingLbl.Enabled = false;
        secondPPlayingLbl.Enabled = false;
        thirdPPlayingLbl.Enabled = false;
        fourthPPlayingLbl.Enabled = false;
        fifthPPlayingLbl.Enabled = false;
        sixthPPlayingLbl.Enabled = false;
        seventhPPlayingLbl.Enabled = false;
       eighthPPlayingLbl.Enabled = false;
        startBtn.Visible = false;
    }
   else
    {
        firstPPlayingLbl.Enabled = true;
        secondPPlayingLbl.Enabled = true;
        thirdPPlayingLbl.Enabled = true;
        fourthPPlayingLbl.Enabled = true;
        fifthPPlayingLbl.Enabled = true;
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
        seventhPPlayingLbl.Enabled = true;
        eighthPPlayingLbl.Enabled = true;
        startBtn.Visible = true;
    }
}
// method to handle each player's turn
public void betTurn()
    if (currentRaiser == currentBettingPlayer)
    {
        currentBettingPlayer = 0;
        currentBettingPlayerCount = 0;
        currentRaiser = 0;
    }
    if (currentBettingPlayerCount == 0 && currentBettingPlayer == 0 && (
    {
        turnOffPlayers();
        currentBettingPlayer = 0;
        flipBtn.Visible = true;
        currentBetAmount = 0;
        currentBetAmountLbl.Text = "Current Bet: ";
        if (allCardsShown)
        {
            checkHands();
            checkWinner();
            flipBtn.Visible = false;
        currentRaiser = 0;
    }
    else
    {
        if (currentRaiser != 0 && currentBettingPlayer == 0)
            if (currentRaiser == 1)
            {
                currentRaiser = 0;
            currentBettingPlayer = setTable.listOfPlayers[0].id;
            currentBettingPlayerCount = 0;
        }
        switch (currentBettingPlayer)
            case 1:
                this.turnCK1.BackColor = Color.Lime;
                this.firstPbetRB.Visible = true;
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
         this.firstPBetBtn.Visible = true;
         this.firstPCheckRB.Checked = true;
         this.fold1.Visible = true;
         if (currentBetAmount > 0)
             firstPCheckRB.Visible = false;
             firstPbetRB.Checked = true;
         }
         if (currentBetAmount == 0)
             this.firstPAmountTxtB.Text = "10":
         }
         else
             this.firstPAmountTxtB.Text = currentBetAmount.ToStri
         break;
     case 2:
         this.turnCK2.BackColor = Color.Lime;
         this.secondPbetRB.Visible = true;
         this.secondPCheckRB.Visible = true;
         this.secondPBetBtn.Visible = true;
         this.secondPCheckRB.Checked = true;
         this.fold2.Visible = true;
         if (secondPCheckRB.Checked)
         {
             secondPAmountTxtB.Text = "10";
         }
         if (currentBetAmount > 0)
             secondPCheckRB.Visible = false;
             secondPbetRB.Checked = true;
         }
         if (currentBetAmount == 0)
             this.secondPAmountTxtB.Text = "10";
         }
         else
         {
             this.secondPAmountTxtB.Text = currentBetAmount.ToStr
         }
         break;
     case 3:
         this.turnCK3.BackColor = Color.Lime;
         this.thirdPbetRB.Visible = true;
         this.thirdPCheckRB.Visible = true;
         this.thirdPBetBtn.Visible = true;
         this.thirdPCheckRB.Checked = true;
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
         if (currentBetAmount > 0)
         {
             thirdPCheckRB.Visible = false;
             thirdPbetRB.Checked = true;
         }
         if (currentBetAmount == 0)
             this.thirdPAmountTxtB.Text = "10";
         }
         else
             this.thirdPAmountTxtB.Text = currentBetAmount.ToStri
         break:
     case 4:
         this.turnCK4.BackColor = Color.Lime;
         this.fourthPbetRB.Visible = true;
         this.fourthPCheckRB.Visible = true;
         this.fourthPBetBtn.Visible = true;
         this.fourthPCheckRB.Checked = true;
         this.fold4.Visible = true;
         if (currentBetAmount > 0)
             fourthPCheckRB.Visible = false;
             fourthPbetRB.Checked = true;
         }
         if (currentBetAmount == 0)
         {
             this.fourthPAmountTxtB.Text = "10";
         }
         else
             this.fourthPAmountTxtB.Text = currentBetAmount.ToStr
         break;
     case 5:
         this.turnCK5.BackColor = Color.Lime;
         this.fifthPbetRB.Visible = true;
         this.fifthPCheckRB.Visible = true;
         this.fifthPBetBtn.Visible = true;
         this.fifthPCheckRB.Checked = true;
         this.fold5.Visible = true;
         if (currentBetAmount > 0)
         {
             fifthPCheckRB.Visible = false;
             fifthPbetRB.Checked = true;
         if (currentBetAmount == 0)
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
             this.fifthPAmountTxtB.Text = "10";
         }
         else
         {
             this.fifthPAmountTxtB.Text = currentBetAmount.ToStri
         break:
     case 6:
         this.turnCK6.BackColor = Color.Lime;
         this.sixthPbetRB.Visible = true;
         this.sixthPCheckRB.Visible = true;
         this.sixthPBetBtn.Visible = true;
         this.sixthPCheckRB.Checked = true;
         this.fold6.Visible = true;
         if (currentBetAmount > 0)
             sixthPCheckRB.Visible = false;
             sixthPbetRB.Checked = true;
         }
         if (currentBetAmount == 0)
             this.sixthPAmountTxtB.Text = "10";
         }
         else
         {
             this.sixthPAmountTxtB.Text = currentBetAmount.ToStri
         }
         break;
     case 7:
         this.turnCK7.BackColor = Color.Lime;
         this.seventhPbetRB.Visible = true;
         this.seventhPCheckRB.Visible = true;
         this.seventhPBetBtn.Visible = true;
         this.seventhPCheckRB.Checked = true;
         this.fold7.Visible = true;
         if (currentBetAmount > 0)
         {
             seventhPCheckRB.Visible = false;
             seventhPbetRB.Checked = true:
         }
         if (currentBetAmount == 0)
             this.seventhPAmountTxtB.Text = "10":
         }
         else
         {
             this.seventhPAmountTxtB.Text = currentBetAmount.ToSt
         }
```

firstPmoneyLbl.Text = setTable.listOfPlayers[p1].cash.ToStri

}

firstPAmountTxtB.Visible = false;

int p2 = currentBettingPlayer - 1;

firstPAmountTxtB.Text = "10";

fold1.Visible = false;

checkIsOn1 = false;

break:

case 2:

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
     int betAmount2 = Convert.ToInt32(secondPAmountTxtB.Text);
     Boolean checkIsOn2 = false;
     if (secondPCheckRB.Checked)
         checkIsOn2 = true;
     betTurnAssistant(p2, p2Cash, betAmount2, checkIsOn2);
     secondPmoneyLbl.Text = setTable.listOfPlayers[p2].cash.ToStr
     secondPAmountTxtB.Visible = false;
     fold2.Visible = false;
     secondPAmountTxtB.Text = "10";
     checkIsOn1 = false;
     break:
 case 3:
     int p3 = currentBettingPlayer - 1;
     int p3Cash = Convert.ToInt32(setTable.listOfPlayers[p3].cash
     int betAmount3 = Convert.ToInt32(thirdPAmountTxtB.Text);
     Boolean checkIsOn3 = false;
     if (thirdPCheckRB.Checked)
     {
         checkIsOn3 = true;
     betTurnAssistant(p3, p3Cash, betAmount3, checkIsOn3);
     thirdPmoneyLbl.Text = setTable.listOfPlayers[p3].cash.ToStri
     thirdPAmountTxtB.Visible = false;
     fold3.Visible = false;
     thirdPAmountTxtB.Text = "10";
     checkIsOn3 = false;
     break:
 case 4:
     int p4 = currentBettingPlayer - 1;
     int p4Cash = Convert.ToInt32(setTable.listOfPlayers[p4].cash
     int betAmount4 = Convert.ToInt32(fourthPAmountTxtB.Text);
     Boolean checkIsOn4 = false;
     fold4.Visible = false;
     if (fourthPCheckRB.Checked)
         checkIsOn4 = true;
     betTurnAssistant(p4, p4Cash, betAmount4, checkIsOn4);
     fourthPmoneyLbl.Text = setTable.listOfPlayers[p4].cash.ToStr
     fourthPAmountTxtB.Visible = false;
     fourthPAmountTxtB.Text = "10";
     checkIsOn4 = false;
     break;
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
     int p5 = currentBettingPlayer - 1;
     int p5Cash = Convert.ToInt32(setTable.listOfPlayers[p5].cash
     int betAmount5 = Convert.ToInt32(fifthPAmountTxtB.Text);
     Boolean checkIsOn5 = false;
     fold5.Visible = false;
     if (fifthPCheckRB.Checked)
         checkIsOn5 = true;
     betTurnAssistant(p5, p5Cash, betAmount5, checkIsOn5);
     fifthPmoneyLbl.Text = setTable.listOfPlayers[p5].cash.ToStri
     fifthPAmountTxtB.Visible = false;
     fold5.Visible = false;
     fifthPAmountTxtB.Text = "10";
     checkIsOn5 = false;
     break;
 case 6:
     int p6 = currentBettingPlayer - 1;
     int p6Cash = Convert.ToInt32(setTable.list0fPlayers[p6].cash
     int betAmount6 = Convert.ToInt32(sixthPAmountTxtB.Text);
     Boolean checkIsOn6 = false;
     fold6.Visible = false;
     if (sixthPCheckRB.Checked)
     {
         checkIsOn6 = true;
     betTurnAssistant(p6, p6Cash, betAmount6, checkIsOn6);
     sixthPmoneyLbl.Text = setTable.listOfPlayers[p6].cash.ToStri
     sixthPAmountTxtB.Visible = false;
     sixthPAmountTxtB.Text = "10";
     checkIsOn6 = false;
     break;
 case 7:
     int p7 = currentBettingPlayer - 1;
     int p7Cash = Convert.ToInt32(setTable.listOfPlayers[p7].cash
     int betAmount7 = Convert.ToInt32(seventhPAmountTxtB.Text);
     Boolean checkIsOn7 = false:
     if (seventhPCheckRB.Checked)
     {
         checkIsOn7 = true;
     betTurnAssistant(p7, p7Cash, betAmount7, checkIsOn7);
     seventhPmoneyLbl.Text = setTable.listOfPlayers[p7].cash.ToSt
     seventhPAmountTxtB.Visible = false;
     fold7.Visible = false;
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
            checkIsOn7 = false;
            break:
        case 8:
            int p8 = currentBettingPlayer - 1;
            int p8Cash = Convert.ToInt32(setTable.listOfPlayers[p8].cash
            int betAmount8 = Convert.ToInt32(eighthPAmountTxtB.Text);
            Boolean checkIsOn8 = false;
            if (eighthPCheckRB.Checked)
            {
                checkIsOn8 = true;
            betTurnAssistant(p8, p8Cash, betAmount8, checkIsOn8);
            eighthPmoneyLbl.Text = setTable.listOfPlayers[p8].cash.ToStr
            eighthPAmountTxtB.Visible = false;
            fold8.Visible = false;
            eighthPAmountTxtB.Text = "10";
            checkIsOn8 = false;
            break;
   }
}
public void betTurnAssistant(int playerNumber, int playerCash, int playe
    String currentBetText = "Current Bet: $" + playerBetAmt + ".00";
    if (playerBetAmt < currentBetAmount)</pre>
    {
       MessageBox. Show ("Bet amount has to match or be higher than curre
    }
   else
    {
        if (checkIsOn)
            playerBetAmt = 0;
            currentBetText = "Current Bet: Check";
        if (playerBetAmt > currentBetAmount)
            currentRaiser = playerNumber + 1;
        potAmount = potAmount + playerBetAmt;
        potAmountlbl.Text = "Pot Amount: " + "$" + potAmount + ".00";
        setTable.listOfPlayers[playerNumber].cash = playerCash - playerB
        currentBetAmountLbl.Text = "Current Bet Amount: $" + playerBetAm
        currentBetAmount = playerBetAmt;
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
        checkIfLastPlayer();
        turnOffPlayers();
        betTurn();
    }
}
public void checkIfLastPlayer()
    //check to see if the current player is the last player, if yes, res
    if (currentBettingPlayerCount < setTable.listOfPlayers.Count - 1)</pre>
        currentBettingPlayerCount++;
        currentBettingPlayer = setTable.listOfPlayers[currentBettingPlay
    }
    else
    {
        currentBettingPlayer = 0;
        currentBettingPlayerCount = 0;
        currentBetAmountLbl.Visible = false;
    }
}
// method to gather all strenght numbers from each player
// compare them and see who got the highest.
// If more than one player get the winning number than further compariso
public void checkWinner(){
    int[] arrayStrenght = strenghtList.ToArray();
   List<int[]> pairs = new List<int[]> {};
    List<Result> playersWithWinningHands = new List<Result> { };
    List<int[]> handsToCompareList = new List<int[]> { };
   Array.Sort(arrayStrenght);
    Array.Sort<int>(arrayStrenght, new Comparison<int>((i1, i2) => i2.Co
    foreach (var res in listOfResults)
    {
        if (res.handStrenght == arrayStrenght[0]){
            playersWithWinningHands.Add(res);
            pairs.Add(res.pairs);
            handsToCompareList.Add(res.finalHand);
        }
    }
    if(playersWithWinningHands.Count == 1){
        winLbl.Text = playersWithWinningHands[0].player.name + " wins $"
        playersWithWinningHands[0].player.cash = playersWithWinningHands
    } else {
```

```
List<int> winnerIndex = new List<int> { };
    winnerIndex = compareSimilarHands(handsToCompareList, arrayStren
    if(winnerIndex.Count > 1){
        int division = 0;
        division = potAmount / winnerIndex.Count;
        winLbl.Text = "Multiple Winners with a " + playersWithWinnin
        String winners = "(";
        for (int i = 0; i < playersWithWinningHands.Count; i++)</pre>
            for (int j = 0; j < winnerIndex.Count; j++)</pre>
            {
                if (i == winnerIndex[j])
                    if (i == playersWithWinningHands.Count - 1)
                    {
                        winners = winners + playersWithWinningHands[
                        playersWithWinningHands[i].player.cash = pla
                    }
                    else
                    {
                        winners = winners + playersWithWinningHands[
                        playersWithWinningHands[i].player.cash = pla
                    }
                }
            }
        }
        winnersNamesLbl.Text = winners;
        winnersNamesLbl.Visible = true;
        int winnersNamesLblLocation = (this.panel1.Size.Width - this
        this.winnersNamesLbl.Location = new Point(winnersNamesLblLoc
    } else {
        winLbl.Text = playersWithWinningHands[winnerIndex[0]].player
        playersWithWinningHands[winnerIndex[0]].player.cash = player
    }
    listOfResults[winnerIndex[0]].player.cash = listOfResults[winner
}
int winLblLocation = (this.panel1.Size.Width - this.winLbl.Size.Widt
this.winLbl.Location = new Point(winLblLocation, 165);
refreshMoney();
winLbl.Visible = true;
currentBetAmountLbl.Visible = false;
potAmountlbl.Visible = false;
```

}

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
public List<int> compareSimilarHands(List<int[]> winnersHands, int stren
    List<int> handIndex = new List<int> {};
    if (strenght == 1 || strenght == 5 || strenght == 8 || strenght == 6
        handIndex = selectHighestHandByHighestCard(winnersHands);
   } else if (strenght == 2 || strenght == 4 || strenght == 7){
        handIndex = selectPairs(winnersHands, pairs);
    } else {
        handIndex = selectPairs(winnersHands, pairs);
    return handIndex;
}
public List<int> selectPairs(List<int[]> winnersHands, List<int[]> pairs
    List<int> index = new List<int> {};
   List<int> maxNumbers = new List<int> { };
    int[] emptyArray = new int[] { 0, 0, 0 };
    int[] largestArray = new int[2];
    int maxNum = 0;
   List<int> indexes = new List<int> { };
   // adding the largest number from each hand into a list and getting
    // of them
   for (int i = 0; i < 2; i++)
    {
        for (int j = 0; j < pairs.Count; j++)</pre>
            maxNumbers.Add(pairs[j][i]);
        maxNum = maxNumbers.Max();
        largestArray[i] = maxNum;
        // empting out the pairs that does not contain the largest pair
        for (int f = 0; f < pairs.Count; f++)</pre>
            if (pairs[f][i] != maxNum)
            {
                pairs[f] = emptyArray;
            }
        maxNumbers.Clear();
    }
```

// Then save the index of the pairs that are equal.

for (int i = 0; i < pairs.Count; i++)</pre>

int count = 0:

{

// checking to see which pairs are equal to the largest pair.

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
        {
            count++;
            indexes.Add(i);
        }
    }
    // if only one set of pairs match the largest pair, then save the in
    if (count == 1){
        index.Add(indexes[0]);
    } else {
        // if more than one set of pairs match the largest pair, then se
        // to be checked by the selectHighestHandByHighestCard method.
        for (int i = 0; i < winnersHands.Count; i++)</pre>
        {
            Boolean checkTruth = false;
            for (int j = 0; j < indexes.Count; j++)</pre>
                if (i == indexes[j])
                {
                    checkTruth = true;
            }
            if (!checkTruth)
                winnersHands[i] = emptyArray;
            }
        index = selectHighestHandByHighestCard(winnersHands);
    }
    return index;
}
public List<int> selectHighestHandByHighestCard(List<int[]> hands){
    // gathering largesr card from each player
    List<int> index = new List<int> {};
    int[] zeroArray = new int[5] { 0, 0, 0, 0, 0 };
    for (int i = 0; i < 5; i++)
    {
        List<int> largest = new List<int> { };
        // adding highest card from each player into a list
        for (int j = 0; j < hands.Count; <math>j++)
            largest.Add(hands[j][i]);
        }
        // getting largest card among all players
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
        int maxIndex = largest.IndexOf(maxNumber);
        int count = 0;
        // checking to see if there's more than one player with the high
        index.Clear();
        for (int j = 0; j < hands.Count; j++)</pre>
            if (maxNumber == hands[j][i])
            {
                count++;
                index.Add(j);
            }
            else
                // exclude all players that don't have the highest card
                hands[i] = zeroArray;
            }
        }
        // if only one player has the highest card than break and return
        if (count == 1)
        {
            index.Clear();
            index.Add(maxIndex);
            break;
        }
    }
    return index;
}
public void refreshMoney()
    for (int i = 0; i < setTable.listOfPlayers.Count; i++)</pre>
        switch (listOfPlayers[i].id)
        {
            case 1:
                firstPmoneyLbl.Text = (listOfResults[i].player.cash).ToS
                break;
                secondPmoneyLbl.Text = (listOfResults[i].player.cash).To
                break;
            case 3:
                thirdPmoneyLbl.Text = (listOfResults[i].player.cash).ToS
                break;
            case 4:
                fourthPmoneyLbl.Text = (listOfResults[i].player.cash).To
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
            case 5:
                fifthPmoneyLbl.Text = (listOfResults[i].player.cash).ToS
                break;
            case 6:
                sixthPmoneyLbl.Text = (listOfResults[i].player.cash).ToS
                break;
            case 7:
                seventhPmoneyLbl.Text = (listOfResults[i].player.cash).T
                break:
            case 8:
                eighthPmoneyLbl.Text = (listOfResults[i].player.cash).To
        }
   }
}
public void firstRB(Object sender, EventArgs e)
    if (firstPbetRB.Checked)
    {
        firstPAmountTxtB.Visible = true;
        firstPBetBtn.Text = "Bet!";
    }
    else
    {
        firstPAmountTxtB.Visible = false;
        firstPBetBtn.Text = "Check!";
    }
}
public void secondRB(Object sender, EventArgs e)
    if (secondPbetRB.Checked)
    {
        secondPAmountTxtB.Visible = true;
        secondPBetBtn.Text = "Bet!";
    }
    else
    {
        secondPAmountTxtB.Visible = false;
        secondPBetBtn.Text = "Check!";
    }
}
public void thirdRB(Object sender, EventArgs e)
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
    {
        thirdPAmountTxtB.Visible = true;
        thirdPBetBtn.Text = "Bet!";
    }
    else
    {
        thirdPAmountTxtB.Visible = false;
        thirdPBetBtn.Text = "Check!";
    }
}
public void fourthRB(Object sender, EventArgs e)
    if (fourthPbetRB.Checked)
    {
        fourthPAmountTxtB.Visible = true;
        fourthPBetBtn.Text = "Bet!";
    }
    else
    {
        fourthPAmountTxtB.Visible = false;
        fourthPBetBtn.Text = "Check!";
    }
}
public void fifthRB(Object sender, EventArgs e)
    if (fifthPbetRB.Checked)
    {
        fifthPAmountTxtB.Visible = true;
        fifthPBetBtn.Text = "Bet!";
    }
    else
    {
        fifthPAmountTxtB.Visible = false;
        fifthPBetBtn.Text = "Check!";
    }
}
public void sixthRB(Object sender, EventArgs e)
    if (sixthPbetRB.Checked)
    {
        sixthPAmountTxtB.Visible = true;
        sixthPBetBtn.Text = "Bet!";
    }
    else
    {
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
        sixthPBetBtn.Text = "Check!";
    }
}
public void seventhRB(Object sender, EventArgs e)
    if (seventhPbetRB.Checked)
    {
        seventhPAmountTxtB.Visible = true;
        seventhPBetBtn.Text = "Bet!";
    }
    else
    {
        seventhPAmountTxtB.Visible = false;
        seventhPBetBtn.Text = "Check!";
    }
}
public void eighthRB(Object sender, EventArgs e)
    if (eighthPbetRB.Checked)
    {
        eighthPAmountTxtB.Visible = true;
        eighthPBetBtn.Text = "Bet!";
    }
    else
    {
        eighthPAmountTxtB.Visible = false;
        eighthPBetBtn.Text = "Check!";
    }
}
public void fold(object sender, EventArgs e)
{
    if(turnCK1.BackColor == Color.Lime){
        playersList.Remove(1);
        listOfPlayers.RemoveAt(0);
        countNumberOfPlayers--;
        fold1.Visible = false;
    }
    checkIfLastPlayer();
    turnOffPlayers();
    betTurn();
}
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
    int[] intHand = new int[5];
    intHand[0] = Convert.ToInt32(strHand[2]);
    intHand[1] = Convert.ToInt32(strHand[3]);
    intHand[2] = Convert.ToInt32(strHand[4]);
    intHand[3] = Convert.ToInt32(strHand[5]);
    intHand[4] = Convert.ToInt32(strHand[6]);
    return intHand;
}
public void checkHands()
    for (int i = 0; i < playersList.Count; i++)</pre>
        if (playersList[i] == 1)
            player1 = setTable.listOfPlayers[i];
            resultAfterHandChecked1 = hand.checkHand(setTable.listOfPlay
            pairs1[0] = Convert.ToInt32(resultAfterHandChecked1[7]); pai
            result1 = new Result(player1, player1.hand, resultAfterHandC
            listOfResults.Add(result1);
            strenghtList.Add(result1.handStrenght);
            hand1Lbl.Text = result1.handType;
            int location = (this.p1WinPanel.Size.Width - this.hand1Lbl.S
            int location2 = (this.p1WinPanel.Size.Height - this.hand1Lbl
            this.hand1Lbl.Location = new Point(location, location2);
            p1WinPanel.Visible = true;
        }
        if (playersList[i] == 2)
            player2 = setTable.listOfPlayers[i];
            resultAfterHandChecked2 = hand.checkHand(setTable.listOfPlay
            pairs2[0] = Convert.ToInt32(resultAfterHandChecked2[7]); pai
            result2 = new Result(player2, player2.hand, resultAfterHandC
            listOfResults.Add(result2);
            strenghtList.Add(result2.handStrenght);
            hand2Lbl.Text = result2.handType;
            int location = (this.p2WinPanel.Size.Width - this.hand2Lbl.S
            int location2 = (this.p2WinPanel.Size.Height - this.hand2Lbl
            this.hand2Lbl.Location = new Point(location, location2);
```

```
if (playersList[i] == 3)
    player3 = setTable.listOfPlayers[i];
    resultAfterHandChecked3 = hand.checkHand(setTable.listOfPlay
    pairs3[0] = Convert.ToInt32(resultAfterHandChecked3[7]); pai
    result3 = new Result(player3, player3.hand, resultAfterHandC
    listOfResults.Add(result3);
    strenghtList.Add(result3.handStrenght);
    hand3Lbl.Text = result3.handType;
    int location = (this.p3WinPanel.Size.Width - this.hand3Lbl.S
    int location2 = (this.p3WinPanel.Size.Height - this.hand3Lbl
    this.hand3Lbl.Location = new Point(location, location2);
    p3WinPanel.Visible = true;
}
if (playersList[i] == 4)
    player4 = setTable.listOfPlayers[i];
    resultAfterHandChecked4 = hand.checkHand(setTable.listOfPlay
    pairs4[0] = Convert.ToInt32(resultAfterHandChecked4[7]); pai
    result4 = new Result(player4, player4.hand, resultAfterHandC
    listOfResults.Add(result4);
    strenghtList.Add(result4.handStrenght);
    hand4Lbl.Text = result4.handType;
    int location = (this.p4WinPanel.Size.Width - this.hand4Lbl.S
    int location2 = (this.p4WinPanel.Size.Height - this.hand4Lbl
    this.hand4Lbl.Location = new Point(location, location2);
    p4WinPanel.Visible = true;
if (playersList[i] == 5)
    player5 = setTable.listOfPlayers[i];
    resultAfterHandChecked5 = hand.checkHand(setTable.listOfPlay
    pairs5[0] = Convert.ToInt32(resultAfterHandChecked5[7]); pai
    result5 = new Result(player5, player5.hand, resultAfterHandC
    listOfResults.Add(result5);
    strenghtList.Add(result5.handStrenght);
    hand5Lbl.Text = result5.handType;
    int location = (this.p5WinPanel.Size.Width - this.hand5Lbl.S
    int location2 = (this.p5WinPanel.Size.Height - this.hand5Lbl
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
     p5WinPanel.Visible = true;
 }
 if (playersList[i] == 6)
     player6 = setTable.listOfPlayers[i];
     resultAfterHandChecked6 = hand.checkHand(setTable.listOfPlay
     pairs6[0] = Convert.ToInt32(resultAfterHandChecked6[7]); pai
     result6 = new Result(player6, player6.hand, resultAfterHandC
     listOfResults.Add(result6);
     strenghtList.Add(result6.handStrenght);
     hand6Lbl.Text = result6.handType;
     int location = (this.p6WinPanel.Size.Width - this.hand6Lbl.S
     int location2 = (this.p6WinPanel.Size.Height - this.hand6Lbl
     this.hand6Lbl.Location = new Point(location, location2);
     p6WinPanel.Visible = true;
 }
 if (playersList[i] == 7)
     player7 = setTable.listOfPlayers[i];
     resultAfterHandChecked7 = hand.checkHand(setTable.listOfPlay
     pairs7[0] = Convert.ToInt32(resultAfterHandChecked7[7]); pai
     result7 = new Result(player7, player7.hand, resultAfterHandC
     listOfResults.Add(result7);
     strenghtList.Add(result7.handStrenght);
     hand7Lbl.Text = result7.handType;
     int location = (this.p7WinPanel.Size.Width - this.hand7Lbl.S
     int location2 = (this.p7WinPanel.Size.Height - this.hand7Lbl
     this.hand7Lbl.Location = new Point(location, location2);
     p7WinPanel.Visible = true;
 if (playersList[i] == 8)
     player8 = setTable.listOfPlayers[i];
     resultAfterHandChecked8 = hand.checkHand(setTable.listOfPlay
     pairs8[0] = Convert.ToInt32(resultAfterHandChecked8[7]); pai
     result8 = new Result(player8, player8.hand, resultAfterHandC
     listOfResults.Add(result8);
     strenghtList.Add(result8.handStrenght);
     hand8Lbl.Text = result8.handType;
     int location = (this.p8WinPanel.Size.Width - this.hand8Lbl.S
     int location2 = (this.p8WinPanel.Size.Height - this.hand8Lbl
     this.hand8Lbl.Location = new Point(location, location2);
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
        }
    }
}
private int correctedNumbers(int cardNumber)
    if (cardNumber < 14)
        suit = "spades";
    }
    else
    if (cardNumber > 13 && cardNumber < 27)</pre>
    {
        suit = "clubs";
        cardNumber = cardNumber - 13;
    }
    else if (cardNumber > 26 && cardNumber < 40)
    {
        suit = "diamonds";
        cardNumber = cardNumber - 26;
    }
    else if (cardNumber > 39)
        suit = "hearts";
        cardNumber = cardNumber - 39;
    return cardNumber;
}
private void resetBtn_Click(object sender, EventArgs e)
{
    suit = "";
    int[] handNumbersClean = new int[] { 0, 0, 0, 0, 0, 0, 0 };
    handNumbers = handNumbersClean;
    int[] flopCardsClean = new int[] { 0, 0, 0, 0, 0 };
    flopCards = flopCardsClean;
    potAmount = 0;
    currentBetAmount = 10;
    hand.resetHand();
    cleanLabels();
    disablePlayersBoxes();
    strenghtList.Clear();
    setTable.createDeck();
    countflop = 0;
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
    currentBettingPlayerCount = 0;
    currentRaiser = 0;
   winnersNamesLbl.Visible = false;
    flipBtn.Visible = false;
    allCardsShown = false;
    startBtn.Visible = true;
    winLbl.Visible = false;
}
public void cleanLabels()
    hand1Lbl.Text = "";
    hand2Lbl.Text = "";
    hand3Lbl.Text = "";
    hand4Lbl.Text = "";
    hand5Lbl.Text = "";
    hand6Lbl.Text = "";
    hand7Lbl.Text = "";
    hand8Lbl.Text = "";
    this.firstPpicBox1.Image = null;
    this.firstPpicBox1.BackColor = Color.Transparent;
    this.firstPpicBox2.Image = null;
    this.firstPpicBox2.BackColor = Color.Transparent;
    this.secondPpicBox1.Image = null;
    this.secondPpicBox1.BackColor = Color.Transparent;
    this.secondPpicBox2.Image = null;
    this.secondPpicBox2.BackColor = Color.Transparent;
    this.thirdPpicBox1.Image = null;
    this.thirdPpicBox1.BackColor = Color.Transparent;
    this.thirdPpicBox2.Image = null;
    this.thirdPpicBox2.BackColor = Color.Transparent;
    this.fourthPpicBox1.Image = null;
    this.fourthPpicBox1.BackColor = Color.Transparent;
    this.fourthPpicBox2.Image = null;
    this.fourthPpicBox2.BackColor = Color.Transparent;
    this.fifthPpicBox1.Image = null;
    this.fifthPpicBox1.BackColor = Color.Transparent;
    this.fifthPpicBox2.Image = null;
    this.fifthPpicBox2.BackColor = Color.Transparent;
    this.sixthPpicBox1.Image = null;
    this.sixthPpicBox1.BackColor = Color.Transparent;
    this.sixthPpicBox2.Image = null;
    this.sixthPpicBox2.BackColor = Color.Transparent;
    this.seventhPpicBox1.Image = null;
    this.seventhPpicBox1.BackColor = Color.Transparent;
```

```
this.seventhPpicBox2.BackColor = Color.Transparent;
    this.eighthPpicBox1.Image = null;
    this.eighthPpicBox1.BackColor = Color.Transparent;
    this.eighthPpicBox2.Image = null;
    this.eighthPpicBox2.BackColor = Color.Transparent;
    this.firstFlopPB.Image = null;
    this.firstFlopPB.BackColor = Color.Transparent;
    this.secondFlopPB.Image = null;
    this.secondFlopPB.BackColor = Color.Transparent;
    this.thirdFlopPB.Image = null;
    this.thirdFlopPB.BackColor = Color.Transparent;
    this.turnPB.Image = null;
    this.riverPB.BackColor = Color.Transparent;
    this.riverPB.Image = null;
    this.turnPB.BackColor = Color.Transparent;
    this.p1WinPanel.Visible = false;
   this.p2WinPanel.Visible = false;
    this.p3WinPanel.Visible = false;
    this.p4WinPanel.Visible = false;
    this.p5WinPanel.Visible = false;
    this.p6WinPanel.Visible = false;
    this.p7WinPanel.Visible = false;
   this.p8WinPanel.Visible = false;
}
private void flipBtn_Click(object sender, EventArgs e)
    flipCards();
    currentBettingPlayer = setTable.listOfPlayers[0].id;
    currentBettingPlayerCount = 0;
    betTurn();
    currentBetAmount = 0;
}
public void flipCards()
    flopCards = setTable.setFlop();
    setFlopCards(flopCards);
    addToHands(flopCards);
    countFlop++;
}
public void setFlopCards(int[] flopCards)
{
    if (countFlop == 0)
    {
       this.firstFlopPB.Load(("../../images/png/" + correctedNumbers(fl
        this.secondFlopPB.Load(("../../images/png/" + correctedNumbers(f
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
        this.firstFlopPB.BackColor = Color.White;
        this.secondFlopPB.BackColor = Color.White;
        this.thirdFlopPB.BackColor = Color.White;
        this.flipBtn.Text = "Deal Turn";
        this.flipBtn.Visible = false;
    }
    else if (countFlop == 1)
       this.turnPB.Load(("../../images/png/" + correctedNumbers(flopCar
        this.turnPB.BackColor = Color.White;
       this.flipBtn.Text = "Deal River";
        this.flipBtn.Visible = false;
    }
    else if (countFlop == 2)
    {
       this.riverPB.Load(("../../images/png/" + correctedNumbers(flopCa
        this.riverPB.BackColor = Color.White;
        this.turnPB.BackColor = Color.White;
        this.flipBtn.Text = "Deal Flop";
        this.flipBtn.Visible = false;
        allCardsShown = true;
    }
   else if (countFlop > 2)
    {
        countFlop = 0;
    }
}
public void addToHands(int[] flopCards)
    if (countFlop == 0)
    {
        for (int i = 0; i < playersList.Count; i++)</pre>
        {
            if (playersList[i] == 1)
            {
                setTable.listOfPlayers[i].hand[2] = flopCards[0];
                setTable.listOfPlayers[i].hand[3] = flopCards[1];
                setTable.listOfPlayers[i].hand[4] = flopCards[2];
            }
            if (playersList[i] == 2)
                setTable.listOfPlayers[i].hand[2] = flopCards[0];
                setTable.listOfPlayers[i].hand[3] = flopCards[1];
                setTable.listOfPlayers[i].hand[4] = flopCards[2];
            }
            if (playersList[i] == 3)
```

/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs setTable.listOfPlayers[i].hand[3] = flopCards[1]; setTable.listOfPlayers[i].hand[4] = flopCards[2]; } if (playersList[i] == 4) setTable.listOfPlayers[i].hand[2] = flopCards[0]; setTable.listOfPlayers[i].hand[3] = flopCards[1]; setTable.listOfPlayers[i].hand[4] = flopCards[2]; } if (playersList[i] == 5) setTable.listOfPlayers[i].hand[2] = flopCards[0]; setTable.listOfPlayers[i].hand[3] = flopCards[1]; setTable.listOfPlayers[i].hand[4] = flopCards[2]; } if (playersList[i] == 6) setTable.listOfPlayers[i].hand[2] = flopCards[0]; setTable.listOfPlayers[i].hand[3] = flopCards[1]; setTable.listOfPlayers[i].hand[4] = flopCards[2]; } if (playersList[i] == 7) setTable.listOfPlayers[i].hand[2] = flopCards[0]; setTable.listOfPlayers[i].hand[3] = flopCards[1]; setTable.listOfPlayers[i].hand[4] = flopCards[2]; } if (playersList[i] == 8) setTable.listOfPlayers[i].hand[2] = flopCards[0]; setTable.listOfPlayers[i].hand[3] = flopCards[1]; setTable.listOfPlayers[i].hand[4] = flopCards[2]; } } else if (countFlop == 1) for (int i = 0; i < playersList.Count; i++)</pre> if (playersList[i] == 1) { setTable.listOfPlayers[i].hand[5] = flopCards[3]; }

setTable.listOfPlayers[i].hand[5] = flopCards[3];

if (playersList[i] == 2)

if (playersList[i] == 3)

}

{

{

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
            setTable.listOfPlayers[i].hand[5] = flopCards[3];
        }
        if (playersList[i] == 4)
        {
            setTable.listOfPlayers[i].hand[5] = flopCards[3];
        if (playersList[i] == 5)
            setTable.listOfPlayers[i].hand[5] = flopCards[3];
        if (playersList[i] == 6)
            setTable.listOfPlayers[i].hand[5] = flopCards[3];
        if (playersList[i] == 7)
            setTable.listOfPlayers[i].hand[5] = flopCards[3];
        }
        if (playersList[i] == 8)
            setTable.listOfPlayers[i].hand[5] = flopCards[3];
        }
    }
else if (countFlop == 2)
    for (int i = 0; i < playersList.Count; i++)</pre>
        if (playersList[i] == 1)
        {
            setTable.listOfPlayers[i].hand[6] = flopCards[4];
        if (playersList[i] == 2)
            setTable.listOfPlayers[i].hand[6] = flopCards[4];
        if (playersList[i] == 3)
            setTable.listOfPlayers[i].hand[6] = flopCards[4];
        if (playersList[i] == 4)
            setTable.listOfPlayers[i].hand[6] = flopCards[4];
        if (playersList[i] == 5)
            setTable.listOfPlayers[i].hand[6] = flopCards[4];
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
            if (playersList[i] == 6)
                setTable.listOfPlayers[i].hand[6] = flopCards[4];
            }
            if (playersList[i] == 7)
            {
                setTable.listOfPlayers[i].hand[6] = flopCards[4];
            }
            if (playersList[i] == 8)
            {
                setTable.listOfPlayers[i].hand[6] = flopCards[4];
            }
        }
    }
}
public void turnOffPlayers()
    this.turnCK1.BackColor = Color.Green;
    this.firstPbetRB.Visible = false;
    this.firstPCheckRB.Visible = false;
    this.firstPBetBtn.Visible = false;
    this.turnCK2.BackColor = Color.Green;
    this.secondPbetRB.Visible = false;
    this.secondPCheckRB.Visible = false;
    this.secondPBetBtn.Visible = false;
    this.turnCK3.BackColor = Color.Green;
    this.thirdPbetRB.Visible = false;
    this.thirdPCheckRB.Visible = false;
    this.thirdPBetBtn.Visible = false;
    this.turnCK4.BackColor = Color.Green;
    this.fourthPbetRB.Visible = false;
    this.fourthPCheckRB.Visible = false;
    this.fourthPBetBtn.Visible = false;
    this.turnCK5.BackColor = Color.Green;
    this.fifthPbetRB.Visible = false;
    this.fifthPCheckRB.Visible = false;
    this.fifthPBetBtn.Visible = false;
    this.turnCK6.BackColor = Color.Green;
    this.sixthPbetRB.Visible = false;
    this.sixthPCheckRB.Visible = false;
    this.sixthPBetBtn.Visible = false;
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
    this.seventhPbetRB.Visible = false;
    this.seventhPCheckRB.Visible = false;
    this.seventhPBetBtn.Visible = false;
    this.turnCK8.BackColor = Color.Green;
    this.eighthPbetRB.Visible = false;
   this.eighthPCheckRB.Visible = false;
   this.eighthPBetBtn.Visible = false;
}
private void guessTxt_KeyPress(object sender, KeyPressEventArgs e)
    if (!char.IsControl(e.KeyChar) && !char.IsDigit(e.KeyChar))
        e.Handled = true;
    }
}
private void onLeave(object sender, EventArgs e)
    if (firstPAmountTxtB.Text == "" || Convert.ToInt32(firstPAmountTxtB.
    {
        if (!firstPCheckRB.Checked)
           MessageBox. Show("Bet amount cannot be less than 10", "Bet Hi
            firstPAmountTxtB.Text = "10";
        }
    }
    if (secondPAmountTxtB.Text == "" || Convert.ToInt32(secondPAmountTxt
        if (!secondPCheckRB.Checked)
           MessageBox. Show("Bet amount cannot be less than 10", "Bet Hi
            secondPAmountTxtB.Text = "10":
    }
    if (thirdPAmountTxtB.Text == "" || Convert.ToInt32(thirdPAmountTxtB.
        if (!thirdPCheckRB.Checked)
        {
           MessageBox. Show("Bet amount cannot be less than 10", "Bet Hi
            thirdPAmountTxtB.Text = "10";
        }
    if (fourthPAmountTxtB.Text == "" || Convert.ToInt32(fourthPAmountTxt
    {
        if (!fourthPCheckRB.Checked)
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
            fourthPAmountTxtB.Text = "10";
        }
    }
    if (fifthPAmountTxtB.Text == "" || Convert.ToInt32(fifthPAmountTxtB.
        if (!fifthPCheckRB.Checked)
        {
            MessageBox.Show("Bet amount cannot be less than 10", "Bet Hi
            fifthPAmountTxtB.Text = "10";
        }
    }
    if (sixthPAmountTxtB.Text == "" || Convert.ToInt32(sixthPAmountTxtB.
        if (!sixthPCheckRB.Checked)
        {
            MessageBox. Show("Bet amount cannot be less than 10", "Bet Hi
            sixthPAmountTxtB.Text = "10";
        }
    }
    if (seventhPAmountTxtB.Text == "" || Convert.ToInt32(seventhPAmountT
        if (!seventhPCheckRB.Checked)
            MessageBox. Show("Bet amount cannot be less than 10", "Bet Hi
            seventhPAmountTxtB.Text = "10";
    }
    if (eighthPAmountTxtB.Text == "" || Convert.ToInt32(eighthPAmountTxt
        if (!eighthPCheckRB.Checked)
        {
            MessageBox. Show("Bet amount cannot be less than 10", "Bet Hi
            eighthPAmountTxtB.Text = "10";
        }
    }
}
//public void createDeck()
//{
//
     for (int i = 1; i < 53; i++)
//
//
          deck.Add(i);
//
//}
public void click8times(){
    firstPBetBtn.PerformClick():
```

```
/Users/Ciro/Documents/GitHub/Poker/Poker/main.cs
    thirdPBetBtn.PerformClick();
    fourthPBetBtn.PerformClick();
    fifthPBetBtn.PerformClick();
    sixthPBetBtn.PerformClick();
    seventhPBetBtn.PerformClick();
    eighthPBetBtn.PerformClick();
}
private void test()
    // first
    firstPPlayingLbl.Checked = true;
    secondPPlayingLbl.Checked = true;
    thirdPPlayingLbl.Checked = true;
    fourthPPlayingLbl.Checked = true;
    fifthPPlayingLbl.Checked = true;
    sixthPPlayingLbl.Checked = true;
    seventhPPlayingLbl.Checked = true;
    eighthPPlayingLbl.Checked = true;
    // second
    startBtn.PerformClick();
    // third
    click8times();
    // fourth
    flipBtn.PerformClick();
    // fifth
    click8times();
    // sixth
    flipBtn.PerformClick();
    // seventh
    click8times();
    // eighth
    flipBtn.PerformClick();
    // nineth
    click8times();
```

//int[] ar1 = new int[] { 9, 7, 5 }; //int[] ar2 = new int[] { 8, 3, 1 };

```
//int[] ar4 = new int[] { 9, 7, 4 };
//int[][] theArray = new int[4][];
//theArray[0] = ar1;
//theArray[1] = ar2;
//theArray[2] = ar3;
//theArray[3] = ar4;
//List<int> maxNumbers = new List<int> { };
//int[] emptyArray = new int[] { 0, 0, 0 };
//int[] largestArray = new int[3];
//int maxNum = 0;
//List<int> indexes = new List<int> { };
//for (int i = 0; i < 2; i++)
//{
      for (int j = 0; j < theArray.Length; j++)</pre>
//
//
      {
//
          maxNumbers.Add(theArray[j][i]);
//
      maxNum = maxNumbers.Max();
//
      largestArray[i] = maxNum;
//
      for (int f = 0; f < theArray.Length; f++)</pre>
//
//
      {
//
          if(theArray[f][i] != maxNum){
              theArray[f] = emptyArray;
//
//
          }
      }
//
      maxNumbers.Clear();
//
//}
//int count = 0;
//for (int i = 0; i < theArray.Length; i++)</pre>
//{
      if (theArray[i][0] == largestArray[0] && theArray[i][1] == lar
//
//
      {
//
          count++;
          indexes.Add(i);
//
//
      }
//}
//Console.WriteLine(count);
//foreach (var item in indexes)
//{
//
      Console.Write(item + ", ");
//}
```

```
//int[] stringArrayInitializer = new int[5];
    //Player p1 = new Player(1, "Mark", 20000, ar1, "");
//Player p2 = new Player(2, "Paul", 20000, ar2, "");
    //Player p3 = new Player(3, "Susan", 20000, ar3, "");
    //Player p4 = new Player(4, "Lucas", 20000, ar4, "");
    //List<Player> group = new List<Player> { p1, p2, p3, p4 };
    //String index = checkWinner(group, 4);
   //Console.WriteLine(index):
          int count = 0;
      string handResult = "";
//
//
      do
//
      {
//
          int num1 = 0;
//
          int num2 = 0;
//
          int num3 = 0;
//
          int num4 = 0;
          int num5 = 0;
//
          int num6 = 0:
//
//
          int num7 = 0;
          int[] testHandNums = new int[7];
//
//
          int[] copytestHandNums = new int[7];
//
          List<int> testDeck = new List<int>();
//
          for (int i = 1; i < 53; i++)
//
          {
//
               testDeck.Add(i):
          }
//
//
          String[] handInfo = new string[12];
//
          int randomNumber1:
          randomNumber1 = random.Next(1, testDeck.Count + 1) - 1;
//
          num1 = testDeck[randomNumber1]:
//
//
          testHandNums[0] = num1;
          copytestHandNums[0] = num1;
//
          testDeck.Remove(num1);
//
//
          int randomNumber2:
//
          randomNumber2 = random.Next(1, testDeck.Count + 1) - 1;
          num2 = testDeck[randomNumber2];
//
//
          testHandNums[1] = num2;
          copytestHandNums[1] = num2;
//
```

```
//
          int randomNumber3;
//
          randomNumber3 = random.Next(1, testDeck.Count + 1) - 1;
          num3 = testDeck[randomNumber3];
//
          testHandNums[2] = num3;
//
          copytestHandNums[2] = num3;
//
//
          testDeck_Remove(num3):
//
          int randomNumber4:
//
          randomNumber4 = random.Next(1, testDeck.Count + 1) - 1;
//
          num4 = testDeck[randomNumber4];
          testHandNums[3] = num4;
//
          copytestHandNums[3] = num4;
//
          testDeck.Remove(num4);
//
//
          int randomNumber5:
//
          randomNumber5 = random.Next(1, testDeck.Count + 1) - 1;
          num5 = testDeck[randomNumber5];
//
//
          testHandNums[4] = num5;
          copytestHandNums[4] = num5;
//
          testDeck.Remove(num5):
//
//
          int randomNumber6:
//
          randomNumber6 = random.Next(1, testDeck.Count + 1) - 1;
          num6 = testDeck[randomNumber6];
//
          testHandNums[5] = num6;
//
          copytestHandNums[5] = num6;
//
//
          testDeck.Remove(num6);
//
          int randomNumber7;
          randomNumber7 = random.Next(1, testDeck.Count + 1) - 1;
//
          num7 = testDeck[randomNumber7];
//
          testHandNums[6] = num7;
//
          copytestHandNums[6] = num7;
//
          testDeck.Remove(num7);
//
          handInfo = hand.checkHand(testHandNums);
//
//
          handResult = handInfo[0];
//
          Console.WriteLine("----");
          Console.WriteLine("HandInfo " + handInfo[0]);
//
          Console.WriteLine("Hand strenght is: " + handInfo[1]);
//
          Console.WriteLine("Hand: " + handInfo[2] + " " + handInfo[3] +
//
          //Console.WriteLine("Suits: " + handInfo[7] + " " + handInfo[8
//
          //Console.WriteLine(testHandNums[0].ToString());
//
```

```
//Console.WriteLine(testHandNums[2].ToString());
       //
       //
                 //Console.WriteLine(testHandNums[3].ToString());
                 //Console.WriteLine(testHandNums[4].ToString());
       //
                 //Console.WriteLine(testHandNums[5].ToString());
       //
                 //Console.WriteLine(testHandNums[6].ToString());
       //
                 //Console.WriteLine("----");
       //
                 //Console.WriteLine("----");
       //
                 //Console.WriteLine("----");
       //
       //
                 count++;
       //
                 eighthPPlayingLbl.Text = count.ToString();
             } while (handResult != "");
       //
       private void testBtn_Click(object sender, EventArgs e)
           test();
       }
   }
}
```