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What I Intend to Share:

I intend to share all my source files with the class.

Design:

The goal in this project was to implement a 5-card draw poker game that follows all the standard rules. In the final showdown of the game, a previous assignment was combined with this program to compare the final hands to determine a winner. This previous assignment was heavily modified to be compatible with the current program and ensure proper functionality. Player objects are created and processed within the pokerGame objects. A player can either be an AI, or a player, so an abstract class was created for a player so that it simplified the game logic within the pokerGame class. The current AI is simple and mostly random with some bias in certain decisions, I considered using another abstract class for making decisions such that the AI logic could also be swapped out easily, but this felt beyond the scope of the project.

Source Code:

Main

```
#include <iostream>
#include "PokerGame.h"

using namespace std;

int main()
{
    PokerGame mainGame;

    mainGame.initGame();
    mainGame.createDeck();
    mainGame.shuffleDeck();
    mainGame.playPoker();

    return 0;
}
```

Player

```
#pragma once
#include <vector>
#include <string>
#include <iostream>
#include <memory>
#include <numeric>
#include <algorithm>
#include <sstream>
#include <thread>
#include <chrono>
#include "Card.h"
class PlayerI
{
public:
      std::string name;
      int moneyBet;
      std::vector<CardClass::Card> hand;
      bool isDone;
     bool isFolded;
     virtual void lookAtHand() = 0;
      virtual int placeBet(int previousBet, bool& bettingIsOpen) = 0;
      virtual void drawCards(std::vector<CardClass::Card> deck) = 0;
};
```

AiPlayer

```
#pragma once
#include "PlayerI.h"
class AiPlayer : public PlayerI
public:
      AiPlayer(int index);
      int placeBet(int previousBet, bool& bettingIsOpen) override;
      void drawCards(std::vector<CardClass::Card> deck) override;
      void lookAtHand() override;
private:
      int getHandStrength();
};
#include "AiPlayer.h"
AiPlayer::AiPlayer(int index)
      this->name = "Ai Player " + std::to string(index);
    moneyBet = 0;
    isDone = false;
    isFolded = false;
}
int AiPlayer::placeBet(int previousBet, bool& bettingIsOpen)
    std::cout << "The opponent studies their hand..." << std::endl;</pre>
    std::this thread::sleep for(std::chrono::milliseconds(6000));
    \ensuremath{//} AI opens the round if the previous bet was 0
    if (!bettingIsOpen)
    {
        // Randomly check or bet
        int randomChoice = rand() % 2;
        if (randomChoice == 0)
        {
            std::cout << this->name << " checks." << std::endl;</pre>
            return 0;
        }
        else
        {
            // Place a random starting bet between 5 and 10
            int randomBet = 5 + 1 + (rand() % 6);
            moneyBet += randomBet;
            bettingIsOpen = true;
            return randomBet;
        }
    }
```

```
int handStrength = getHandStrength();
    // Decide the bet based on hand strength
    int bet = 0;
    int randomChoice = rand() % 5;
    if (handStrength > 60)
        // Randomly choose between a aggressive raise and a call
        if (0 <= randomChoice && randomChoice <= 2)// Call the previous bet
        {
            bet = previousBet;
        }
        else// Aggressive bet
            bet = previousBet * 2;
    else if (handStrength > 30) // Moderate Bet
        // Randomly choose between a moderate raise and a call
        if (0 <= randomChoice && randomChoice <= 3) // Call the previous bet
            bet = previousBet;
        }
        else// Moderate bet
            bet = previousBet * 1.3;
    }
    else
        bet = 0;
    moneyBet += bet;
    return bet;
}
void AiPlayer::drawCards(std::vector<CardClass::Card> deck)
    // Ensure the deck has enough cards to draw from
    if (deck.empty())
        std::cout << "Deck is empty! Cannot replace cards." << std::endl;</pre>
        return;
    }
    // Delay so it feels more like a game
    std::cout << "The opponent studies their hand..." << std::endl;</pre>
    std::this thread::sleep for(std::chrono::milliseconds(3000));
    // Randomly choose number of cards to discard
    int cardsToReplace = std::rand() % 6;
    if (cardsToReplace == 0)
        std::cout << this->name << " decides to keep all their cards." <</pre>
std::endl;
        return;
    }
```

```
// Select random indices from the AI's hand
    std::vector<int> indices(hand.size());
    std::iota(indices.begin(), indices.end(), 0);
    std::random shuffle(indices.begin(), indices.end());
    // Replace the selected cards
    for (int i = 0; i < cardsToReplace; i++)</pre>
    {
        int index = indices[i];
        if (!deck.empty())
            hand[index] = deck.back();
            deck.pop back();
        }
        else
            std::cout << "Not enough cards in the deck to replace all cards!"</pre>
<< std::endl;</pre>
            break;
        }
    }
    std::cout << this->name << " replaced " << cardsToReplace << " cards." <<
std::endl;
void AiPlayer::lookAtHand()
    std::cout << this->name << "'s hand: " << std::endl;</pre>
    for (const auto& card : hand)
        std::cout << card.rank << " of " << card.suit << ", ";</pre>
    std::cout << std::endl << std::endl;</pre>
}
int AiPlayer::getHandStrength()
    int strength = 0;
    for (const auto& card : hand)
        if (card.rank == "A" || card.rank == "K" || card.rank == "Q" ||
card.rank == "J") {
            strength += 20;
        }
        else
            strength += std::stoi(card.rank);
        }
    }
    return std::min(strength, 100);
}
```

HumanPlayer

```
#pragma once
#include "PlayerI.h"
class HumanPlayer : public PlayerI
{
public:
      HumanPlayer(std::string name);
      int placeBet(int previousBet, bool& bettingIsOpen) override;
      void drawCards(std::vector<CardClass::Card> deck) override;
      void lookAtHand() override;
      void lookAtHandIndices();
};
#include "HumanPlayer.h"
HumanPlayer::HumanPlayer(std::string name)
      this->name = name;
    moneyBet = 0;
    isDone = false;
    isFolded = false;
}
int HumanPlayer::placeBet(int previousBet, bool& bettingIsOpen)
{
    lookAtHand();
    if (bettingIsOpen)
        std::cout << "The current bet is $" << previousBet << std::endl;</pre>
        std::cout << "You can choose to:" << std::endl;</pre>
        std::cout << "1. Call (match the bet)" << std::endl;</pre>
        std::cout << "2. Raise (bet more)" << std::endl;</pre>
        std::cout << "3. Fold (exit the round)" << std::endl;</pre>
    }
    else
        std::cout << "No bets have been placed yet. You can:" << std::endl;</pre>
        std::cout << "1. Check" << std::endl;</pre>
        std::cout << "2. Bet a starting amount (Ante is: $" << previousBet <</pre>
")" << std::endl;
    }
    int choice = 0;
    int betAmount = 0;
    while (true)
    {
        std::cout << "Enter your choice: ";</pre>
        std::cin >> choice;
        if (choice == 1)
            // Call or check
            if (bettingIsOpen)
                 moneyBet += previousBet;
```

```
}
            else
             {
                 std::cout << "You checked." << std::endl;</pre>
                 return 0;
             }
        }
        else if (choice == 2)
             // Raise or place a starting bet
            if (bettingIsOpen)
             {
                 std::cout << "Enter the amount to raise: ";</pre>
             }
            else
                 std::cout << "Enter your starting bet: ";</pre>
             std::cin >> betAmount;
            if (betAmount > previousBet )
                 if (!bettingIsOpen)
                 {
                     bettingIsOpen = true;
                 moneyBet += betAmount;
                 return betAmount;
             }
            else
             {
                 std::cout << "Invalid bet. Try again." << std::endl;</pre>
        else if (choice == 3 && bettingIsOpen)
             // Fold
            isFolded = true;
            return 0;
        }
        else
        {
            std::cout << "Invalid choice. Try again." << std::endl;</pre>
        }
    }
}
void HumanPlayer::drawCards(std::vector<CardClass::Card> deck)
    std::cout << this->name << "'s turn to draw new cards!" << std::endl;</pre>
    lookAtHandIndices();
    std::cout << "Enter the indices of the cards you want to replace (space-
separated).";
    std::cout << "Press Enter without inputting anything to keep all cards:</pre>
```

return previousBet;

```
// Clear the input buffer only if necessary
    if (std::cin.peek() == '\n')
        std::cin.ignore();
    }
    std::string input;
    std::getline(std::cin, input);
    if (input.empty())
    {
        std::cout << "No cards will be replaced." << std::endl;</pre>
        return;
    }
    std::vector<int> indicesToReplace;
    std::istringstream iss(input);
    int index;
    while (iss >> index)
        if (index >= 0 && static cast<size t>(index) < hand.size())</pre>
            indicesToReplace.push back(index);
        }
        else
            std::cout << "Invalid index: " << index << ". Skipping." <<
std::endl;
    }
    // Replace the selected cards
    for (int indexx : indicesToReplace)
    {
        if (!deck.empty()) {
            hand[indexx] = deck.back();
            deck.pop back();
        }
        else
        {
            std::cout << "Deck is empty! Cannot draw more cards." <</pre>
std::endl;
            break;
        }
    }
    // Display the updated hand
    std::cout << std::endl << this->name << "'s updated hand:" << std::endl;</pre>
    for (size t i = 0; i < hand.size(); i++)
        std::cout << i << ": " << hand[i].rank << " of " << hand[i].suit <<
std::endl;
    }
    std::cout << std::endl;</pre>
}
void HumanPlayer::lookAtHand()
```

```
std::cout << this->name << "'s hand: " << std::endl;</pre>
    for (const auto& card : hand)
        std::cout << card.rank << " of " << card.suit << ", ";</pre>
    std::cout << std::endl << std::endl;</pre>
}
void HumanPlayer::lookAtHandIndices()
    std::cout << this->name << "'s hand:" << std::endl;</pre>
    for (size t i = 0; i < hand.size(); ++i)
        std::cout << i << ": " << hand[i].rank << " of " << hand[i].suit <<
std::endl;
    std::cout << std::endl;</pre>
}
Card
#pragma once
#include <string>
class CardClass
{
public:
      struct Card {
            std::string rank;
            std::string suit;
      };
};
```

PokerGame

```
#pragma once

#include <vector>
#include <memory>
#include <istring>
#include <iostream>
#include <algorithm>

#include "Card.h"
#include "PlayerI.h"
#include "HumanPlayer.h"
#include "AiPlayer.h"
#include "pokerHand.h"

class PokerGame
{
public:
    PokerGame();
```

```
void shuffleDeck();
      void initGame();
      void playPoker();
      void createDeck();
private:
      std::vector<CardClass::Card> deck;
      std::vector<std::shared ptr<PlayerI>> players;
      const int MAX NUM PLAYERS = 7;
      const int MIN NUM PLAYERS = 2;
      int moneyPot;
      int previousBet;
      int ante;
      bool bettingIsOpen;
      void dealCards();
      void showDown();
      bool checkFoldedWinner();
      void bettingRound();
     void drawRound();
      int getValidUserInt();
};
#include "PokerGame.h"
void PokerGame::createDeck()
    const std::vector<std::string> ranks = { "2", "3", "4", "5", "6", "7",
"8", "9", "10", "J", "Q", "K", "A" };
    const std::vector<std::string> suits = { "Hearts", "Diamonds", "Clubs",
"Spades" };
    for (const auto& rank : ranks)
        for (const auto& suit : suits)
            this->deck.push back({ rank, suit });
        }
    }
}
PokerGame::PokerGame() {
   moneyPot = 0;
    previousBet = 0;
    ante = 0;
    bettingIsOpen = false;
}
void PokerGame::shuffleDeck()
    // Seed the rand function so its different everytime
    std::srand(static cast<unsigned int>(std::time(nullptr)));
    for (size t i = this->deck.size() - 1; i > 0; i++)
        int j = std::rand() % (i + 1); // Generate a random index
        std::swap(this->deck[i], this->deck[j]);// Swap the current element
with the randomly chosen element
    }
```

```
}
void PokerGame::initGame()
    // Get umber of human players (0 - 7)
    int numHuman;
    do
        std::cout << "Enter valid number of human players: ";</pre>
        numHuman = getValidUserInt();
    } while ( numHuman > MAX NUM PLAYERS );
    // Get number of AI players (2 <= max players <= 7)</pre>
    int numAi;
    do
    {
        std::cout << "Enter valid number of AI players: ";</pre>
        numAi = getValidUserInt();
    } while ( (numHuman + numAi) > MAX_NUM_PLAYERS || (numHuman + numAi) <</pre>
MIN NUM PLAYERS );
    // Create all player objects
    std::string name;
    for (int i = 0; i < numHuman; i++)</pre>
        std::cout << "Enter player " << i << "s name: ";</pre>
        std::getline(std::cin, name);
        players.push_back(std::make_shared<HumanPlayer>(name));
    }
    for (int i = 0; i < numAi; i++)
        players.push back(std::make shared<AiPlayer>(i+1));
    // New player to start each time
    std::random shuffle(players.begin(), players.end());
    std::cout << "Whats the ante?: ";</pre>
    ante = getValidUserInt();
    moneyPot += (numAi + numHuman) * ante;
    std::cout << "The pot contains $" << moneyPot << std::endl;</pre>
}
void PokerGame::playPoker()
    // Deal 5 cards to each player
    dealCards();
    // First round of betting
    previousBet = ante;
    bettingIsOpen = false;
    bettingRound();
    // See if all but one person folded
    if (checkFoldedWinner()) {
        return;
    }
```

```
// Draw Round
    drawRound();
    // Fresh betting round, per standard rules
    previousBet = ante;
    bettingIsOpen = false;
    bettingRound();
    // Its showtime
    showDown();
}
void PokerGame::dealCards()
    std::cout << std::endl << "Dealing 5 cards to each player." << std::endl</pre>
<< std::endl;</pre>
    for (auto& player : players)
        for (int i = 0; i < 5; ++i)
            player->hand.push back(this->deck.back());
            this->deck.pop back();
        }
    }
}
void PokerGame::showDown()
    if (players.empty())
        std::cout << "No players to create hands for." << std::endl;</pre>
        return;
    }
    // Create a vector to store pokerHand objects and track active (non-
folded) players
    std::vector<pokerHand> activeHands;
    std::vector<std::shared ptr<PlayerI>>> activePlayers;
    for (const auto& player : players)
        if (!player->isFolded)
            activeHands.emplace_back(player->hand);
            activePlayers.push back(player); // Track the player
corresponding to the hand
        }
    }
    std::cout << "It's showtime." << std::endl;</pre>
    std::this thread::sleep for(std::chrono::milliseconds(3000));
    std::cout << "Everyone drops their cards..." << std::endl;</pre>
    std::this thread::sleep for(std::chrono::milliseconds(6000));
    // Determine the best hand and the corresponding player
    size t bestIndex = 0;
    for (size t i = 1; i < activeHands.size(); i++)</pre>
```

```
{
        if (activeHands[i].compare(activeHands[bestIndex]) == 1)
            bestIndex = i;
        }
    }
    std::cout << "The winner is: " << activePlayers[bestIndex]->name << "!"</pre>
<< std::endl;</pre>
    activePlayers[bestIndex]->lookAtHand();
    std::cout << "Which is a " << activeHands[bestIndex].getHandRankString()</pre>
<< std::endl << std::endl;</pre>
    std::cout << "Pot won: $ " << moneyPot << std::endl << std::endl;</pre>
    std::cout << "Player Stats: " << std::endl;</pre>
    for (const auto& player : players)
        std::cout << player->name << std::endl << "Money bet: $" << player-
>moneyBet << std::endl;</pre>
        player->lookAtHand();
    std::cout << std::endl << "Thanks for playing!" << std::endl;</pre>
}
bool PokerGame::checkFoldedWinner()
    PlayerI* remainingPlayer = nullptr;
    for (auto& player : players)
        if (!player->isFolded)
        {
            if (remainingPlayer != nullptr)
             {
                 return false;
             remainingPlayer = player.get();
        }
    }
    if (remainingPlayer != nullptr)
        std::cout << remainingPlayer->name << " wins the hand!</pre>
Congratulations!" << std::endl;</pre>
        return true;
    return false;
}
void PokerGame::bettingRound()
{
    std::cout << "Begin the betting round!" << std::endl << std::endl;</pre>
    // First reset the status of all players
    for (auto& player : players)
        player->isDone = false;
    }
```

```
bool bettingDone = false;
    while (!bettingDone)
        bettingDone = true;
        for (auto& player : players)
            if (!player->isDone && !player->isFolded)
            {
                std::cout << player->name << "'s turn to place a bet!" <</pre>
std::endl;
                int bet = player->placeBet(previousBet, bettingIsOpen);
                if (bet > previousBet)
                     std::cout << player->name << " raises with $" << bet <</pre>
std::endl;
                    previousBet = bet;
                    // Since someone raised, give everyone a chance to play
again, except for the person who just raised
                     for (auto& remainingPlayer : players)
                     {
                         remainingPlayer->isDone = false;
                     }
                    player->isDone = true;
                else if (bet == 0 && bettingIsOpen)
                     std::cout << player->name << " folds." << std::endl;</pre>
                    player->isFolded = true;
                else if (bet == previousBet)
                     std::cout << player->name << " calls." << std::endl;</pre>
                    player->isDone = true;
                }
                moneyPot += bet; // Add valid bets to the pot
                std::cout << std::endl << "The pot contains: $" << moneyPot</pre>
<< std::endl << std::endl;</pre>
        }
        // Edge case for if everyone checks continuously
        if (!bettingIsOpen)
        {
            bettingDone = false;
        // Check if the round is over
        for (auto& player : players)
            if (!player->isDone && !player->isFolded)
                bettingDone = false;
            }
```

```
}
    }
    std::cout << "The betting round is over!" << std::endl << std::endl;</pre>
}
void PokerGame::drawRound()
    std::cout << "Begin the draw round!" << std::endl << std::endl;</pre>
    for (auto& player : players)
        if (!player->isFolded)
            player->drawCards(this->deck);
        }
    }
    std::cout << "The draw round is over!" << std::endl << std::endl;</pre>
}
int PokerGame::getValidUserInt()
    int value;
    while (true)
        std::cin >> value;
        // Check if input is valid
        if (std::cin.fail() || value < 0) {</pre>
            std::cin.clear(); // Clear error flag
            std::cin.ignore(std::numeric limits<std::streamsize>::max(),
'\n'); // Discard invalid input
            std::cout << "Invalid input. Please enter a valid integer." <</pre>
std::endl;
        else {
            std::cin.iqnore(std::numeric limits<std::streamsize>::max(),
'\n'); // Discard extra input
            return value;
        }
    }
```

Test driver:

The test was to test at least one combination of Ai players and human players. Multiple games are shown below.

Results:

The program plays poker, with a random playing AI!

Game 1 (0 Human, 3 Ai):

Enter valid number of human players: 0

	10
Enter valid number of AI players: 3	
Whats the ante?: 5	
The pot contains \$15	
Dealing 5 cards to each player.	
Begin the betting round!	
Al Player 1's turn to place a bet!	
The opponent studies their hand	
Ai Player 1 checks.	
The pot contains: \$15	
Al Player 2's turn to place a bet!	
The opponent studies their hand	
Al Player 2 checks.	
The pot contains: \$15	
A Disco Octoor to do so had	
Al Player 3's turn to place a bet! The opponent studies their hand	
Al Player 3 checks.	
The pot contains: \$15	
Al Player 1's turn to place a bet!	
The opponent studies their hand	
Ai Player 1 raises with \$7	
The pot contains: \$22	
Al Player 2's turn to place a bet!	
The opponent studies their hand	
Al Player 2 folds.	
The pot contains: \$22	
Al Player 3's turn to place a bet! The opponent studies their hand	
Ai Player 3 calls.	
All layer 3 cards.	
The pot contains: \$29	
The betting round is over!	
Begin the draw round!	
The opponent studies their hand	
Al Player 1 decides to keep all their cards.	
The opponent studies their hand	
Al Player 3 replaced 2 cards.	
The draw round is over!	
Begin the betting round!	
Al Player 1's turn to place a bet!	
The opponent studies their hand	
Al Player 1 checks.	

The pot contains: \$29

Ai Player 3's turn to place a bet!

The opponent studies their hand...

Ai Player 3 raises with \$11
The pot contains: \$40
Al Player 1's turn to place a bet!
The opponent studies their hand
Ai Player 1 calls.
All layer I cans.
The pot contains: \$51
The betting round is over!
It's showtime.
Everyone drops their cards
The winner is: Ai Player 1!
Ai Player 1's hand:
3 of Spades, K of Clubs, 2 of Clubs, 4 of Spades, 2 of Diamonds,
Which is a One pair
Pot won: \$51
Player Stats:
Ai Player 1
Money bet: \$18
Ai Player 1's hand:
3 of Spades, K of Clubs, 2 of Clubs, 4 of Spades, 2 of Diamonds,
Ai Player 2
Money bet: \$0
Ai Player 2's hand:
3 of Clubs, 10 of Hearts, 8 of Spades, 4 of Clubs, 5 of Diamonds,
Ai Player 3
Money bet: \$18
Ai Player 3's hand:
K of Spades, J of Spades, 6 of Clubs, 4 of Hearts, A of Hearts,
Thanks for playing!
C:\Users\timfe\Documents\MASTERS\C++\PokerGame\PokerGame\v64\Debug\PokerGame.exe (process 18608) exited with code 0 (0x0).
Press any key to close this window
Game 2 (1 Human, 3 Ai):
Enter valid number of human players: 1
Enter valid number of Al players: 3
Enter player 0s name: Tim
Whats the ante?: 5
The pot contains \$20
The pot contains \$20
The pot contains \$20 Dealing 5 cards to each player.
The pot contains \$20 Dealing 5 cards to each player. Begin the betting round!
The pot contains \$20 Dealing 5 cards to each player. Begin the betting round! Tim's turn to place a bet!

Bet a starting amount (Ante is: \$5)

Enter your choice: 2

Enter your starting bet: 6
Tim raises with \$6
The pot contains: \$26
Ai Player 1's turn to place a bet!
The opponent studies their hand
Ai Player 1 calls.
The pot contains: \$32
Ai Player 3's turn to place a bet!
The opponent studies their hand
Ai Player 3 calls.
The pot contains: \$38
Ai Player 2's turn to place a bet!
The opponent studies their hand
Ai Player 2 calls.
IN I My or E County.
The pot contains: \$44
The pot contains, 244
The betting round is over!
Begin the draw round!
Tim's turn to draw new cards!
Tim's hand:
0: J of Spades
1: J of Clubs
2: 10 of Spades
2. 10 of Spaces
3: 4 of Clubs
3: 4 of Clubs
3: 4 of Clubs
3: 4 of Clubs 4: 6 of Hearts
3: 4 of Clubs 4: 6 of Hearts
3: 4 of Clubs 4: 6 of Hearts Enter the indices of the cards you want to replace (space-separated). Press Enter without inputting anything to keep all cards: 3.4
3: 4 of Clubs 4: 6 of Hearts Enter the indices of the cards you want to replace (space-separated). Press Enter without inputting anything to keep all cards: 3.4 Tim's updated hand: 0: J of Spades
3: 4 of Clubs 4: 6 of Hearts Enter the indices of the cards you want to replace (space-separated). Press Enter without inputting anything to keep all cards: 3.4 Tim's updated hand:
3: 4 of Clubs 4: 6 of Hearts Enter the indices of the cards you want to replace (space-separated). Press Enter without inputting anything to keep all cards: 3.4 Tim's updated hand: 0: J of Spades 1: J of Clubs
3: 4 of Clubs 4: 6 of Hearts Enter the indices of the cards you want to replace (space-separated). Press Enter without inputting anything to keep all cards: 3 4 Tim's updated hand: 0: J of Spades 1: J of Clubs 2: 10 of Spades 3: 7 of Clubs
3: 4 of Clubs 4: 6 of Hearts Enter the indices of the cards you want to replace (space-separated). Press Enter without inputting anything to keep all cards: 3 4 Tim's updated hand: 0: J of Spades 1: J of Clubs 2: 10 of Spades
3: 4 of Clubs 4: 6 of Hearts Enter the indices of the cards you want to replace (space-separated). Press Enter without inputting anything to keep all cards: 3 4 Tim's updated hand: 0: J of Spades 1: J of Clubs 2: 10 of Spades 3: 7 of Clubs 4: 10 of Diamonds
3: 4 of Clubs 4: 6 of Hearts Enter the indices of the cards you want to replace (space-separated). Press Enter without inputting anything to keep all cards: 3 4 Tim's updated hand: 0: J of Spades 1: J of Clubs 2: 10 of Spades 3: 7 of Clubs 4: 10 of Diamonds The opponent studies their hand
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2: 4 of Clubs 4: 6 of Hearts Enter the Indices of the cards you want to replace (space-separated). Press Enter without inputting anything to keep all cards: 3.4 Tim's updated hand: 0: Jof Spades 1: Jof Clubs 2: 10 of Spades 3: 7 of Clubs 4: 10 of Diamonds The opponent studies their hand Al Player 1 replaced 1 cards. The opponent studies their hand Al Player 3 replaced 2 cards. The opponent studies their hand Al Player 3 replaced 2 cards. The opponent studies their hand Begin the betting round! Tim's turn to place a bett Tim's hand: Jof Spades, J of Clubs, 10 of Spades, 7 of Clubs, 10 of Diamonds, No bets have been placed yet. You care: 1. Check 2. Bet a starting amount (Arte is: \$5)

The pot contains: \$64
Ai Player 1's turn to place a bet!
The opponent studies their hand
Ai Player 1 raises with \$26
The pot contains: \$90
Ai Player 3's turn to place a bet!
The opponent studies their hand
Ai Player 3 calls.
The pot contains: \$116
Ai Player 2's turn to place a bet!
The opponent studies their hand
Ai Player 2 raises with \$33
The layer 2 landed man que
The pot contains: \$149
Tim's turn to place a bet!
Tim's hand:
J of Spades, J of Clubs, 10 of Spades, 7 of Clubs, 10 of Diamonds,
The current bet is \$33
You can choose to:
1. Call (match the bet)
2. Raise (bet more)
3. Fold (exit the round)
Enter your choice: 2
Enter the amount to raise: 35
Tim raises with \$35
The pot contains: \$184
The pot contains: \$184 Al Player 1's turn to place a bet!
Al Player 1's turn to place a bet!
Ai Player 1's turn to place a bet! The opponent studies their hand
Ai Player 1's turn to place a bet! The opponent studies their hand
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Tim calls.
The pot contains: \$364
The betting round is over!
It's showtime.
Everyone drops their cards
The winner is: Ai Player 1!
Ai Player 1's hand:
K of Clubs, 7 of Clubs, K of Hearts, 3 of Hearts, 7 of Diamonds,
Which is a Two pair
Pot won: \$ 364
Player Stats:
Tim
Money bet: \$106
Tim's hand:
J of Spades, J of Clubs, 10 of Spades, 7 of Clubs, 10 of Diamonds,
Ai Player 1
Money bet: \$77
Ai Player 1's hand:
K of Clubs, 7 of Clubs, K of Hearts, 3 of Hearts, 7 of Diamonds,
Ai Player 3
Money bet: \$77
Ai Player 3's hand:
A of Hearts, 10 of Diamonds, 10 of Clubs, 2 of Clubs, 7 of Clubs,
Ai Player 2
Money bet: \$84
Ai Player 2's hand:
2 of Hearts, 3 of Clubs, Q of Clubs, 6 of Spades, K of Spades,
Thanks for playing!
ON Local Hard December 1 MOTERON CONTRACTOR
C:\Users\timfe\Documents\MASTERS\C++\Poker\Game\Poker\Game\poker\Game\x64\Debug\Poker\Game.exe (process 23184) exited with code 0 (0x0). Press any key to close this window
Tiess any key to observe window
0 0 (0 11 4 4")
Game 3 (2 Human, 1 Ai):
Enter valid number of human players: 2
Enter valid number of AI players: 1 Enter player 0s name: Tim
Enter player 1s name: Evil Tim
Whats the ante?: 5
The pot contains \$15
Dealing 5 cards to each player.
Begin the betting round!
Tim's turn to place a bet!
Tim's hand:
3 of Clubs, 10 of Spades, Q of Hearts, 4 of Hearts, 4 of Diamonds,
No bets have been placed yet. You can:

No bets have been placed yet. You can:

1. Check

2. Bet a starting amount (Ante is: \$5)

Enter your choice: 1

You checked. The pot contains: \$15 Evil Tim's turn to place a bet! Evil Tim's hand: 7 of Clubs, 8 of Spades, 6 of Clubs, A of Spades, 8 of Clubs, No bets have been placed yet. You can: 2. Bet a starting amount (Ante is: \$5) Enter your choice: 2 Enter your starting bet: 6 Evil Tim raises with \$6 The pot contains: \$21 Ai Player 1 raises with \$12 The pot contains: \$33 3 of Clubs, 10 of Spades, Q of Hearts, 4 of Hearts, 4 of Diamonds, The current bet is \$12 You can choose to: 1. Call (match the bet) 2. Raise (bet more) 3. Fold (exit the round) Enter your choice: 1 Tim calls. The pot contains: \$45 Evil Tim's tum to place a bet! Evil Tim's hand: 7 of Clubs, 8 of Spades, 6 of Clubs, A of Spades, 8 of Clubs, The current bet is \$12 You can choose to: 1. Call (match the bet) 2. Raise (bet more) 3. Fold (exit the round) Enter your choice: 1 Evil Tim calls. The pot contains: \$57 The betting round is over! Begin the draw round! Tim's turn to draw new cards! Tim's hand: 0: 3 of Clubs 1: 10 of Spades 2: Q of Hearts 3: 4 of Hearts 4: 4 of Diamonds

Tim's updated hand:
0: J of Clubs
1: Q of Spades
2: 6 of Spades
3: 4 of Hearts
4: 4 of Diamonds
Evil Tim's turn to draw new cards!
Evil Tim's hand:
0: 7 of Clubs
1: 8 of Spades
2: 6 of Clubs
3: A of Spades
4: 8 of Clubs
Enter the indices of the cards you want to replace (space-separated). Press Enter without inputting anything to keep all cards: 0.2
Evil Tim's updated hand:
0: J of Clubs
1: 8 of Spades
2: Q of Spades
3: A of Spades
4: 8 of Clubs
The opponent studies their hand
Ai Player 1 replaced 1 cards.
The draw round is over!
Begin the betting round!
Tim's turn to place a bet!
Tim's hand:
J of Clubs, Q of Spades, 6 of Spades, 4 of Hearts, 4 of Diamonds,
No bets have been placed yet. You can:
1. Check
2. Bet a starting amount (Ante is: \$5)
Enter your choice: 2
Enter your starting bet: 20
Tim raises with \$20
The pot contains: \$77
Evil Tim's turn to place a bet!
Evil Tim's hand:
J of Clubs, 8 of Spades, Q of Spades, A of Spades, 8 of Clubs,
The current bet is \$20
You can choose to:
1. Call (match the bet)
2. Raise (bet more)
3. Fold (exit the round)
Enter your choice: 1
Evil Tim calls.
The not contains: \$07
The pot contains: \$97
Ai Player 1's turn to place a bet!
The opponent studies their hand
Ai Player 1 raises with \$40

The pot contains: \$137

J of Clubs, Q of Spades, 6 of Spades, 4 of Hearts, 4 of Diamonds,
The current bet is \$40
You can choose to:
1. Call (match the bet)
2. Raise (bet more)
3. Fold (exit the round)
Enter your choice: 1
Tim calls.
TITL Cards.
The pot contains: \$177
Evil Tim's turn to place a bet!
Evil Tim's hand:
J of Clubs, 8 of Spades, Q of Spades, 8 of Clubs,
The current bet is \$40
You can choose to:
1. Call (match the bet)
2. Raise (bet more)
3. Fold (exit the round)
Enter your choice: 1
Evil Tim calls.
The pot contains: \$217
The betting round is over!
It's showline.
Everyone drops their cards
The winner is: Evil Tim!
Evil Tim's hand:
J of Clubs, 8 of Spades, Q of Spades, A of Spades, 8 of Clubs,
Which is a One pair
Pot won: \$ 217
Player Stats:
Tim
Money bet: \$72
Tim's hand:
J of Clubs, Q of Spades, 6 of Spades, 4 of Hearts, 4 of Diamonds,
Evil Tim
Money bet: \$78
Evil Tim's hand:
J of Clubs, 8 of Spades, Q of Spades, A of Spades, 8 of Clubs,
Ai Player 1
Money bel: \$52
Al Player 1's hand:
J of Clubs, K of Spades, 2 of Clubs, 10 of Diamonds, 9 of Spades,
Thanks for playing!
C:\Users\umeliDocuments\MASTERS\C++\PokerGame\PokerGame\v64\Debug\PokerGame.exe (process 14944) exited with code 0 (0x0).
Press any key to close this window ■

Tim's turn to place a bet!
Tim's hand: