Meyers' Family Rules for Playing Hand-and-Foot: CODING FRIENDLY VERSION

- The game starts with out with combining two decks of cards for every player in the game (2 players = 4 or more decks of cards
- Each player will take 22 cards from the top of the main deck and make two separate piles of 11 cards each. One pile is the Hand, which the player will use first, and the other pile is the Foot, which the player can use only once they have an empty
- 3. The cards values are as follows:
- Aces: 20 points each
- Twos Sevens = 5 points each
- c. Eights and above: 10 points each
- 4. For each of the four rounds, there is a point threshold (60 points) that each player will have to match or exceed in order to "go down" (which means putting down cards from their hand). Players can only put down cards if they have three of the same kind
- S Each player, at the start of their turn, will either draw two cards from the top of the main deck or can draw five cards from the
- They can only draw from the discard pile if they have two of the same of the card that is on the top of the discard pile in their hand AND they are able to go down or have already gone down. They also cannot draw from the discard pile if there is less than 5 cards in the pile.
- 9 Regardless of whether or not the players put down any cards, they must ALWAYS discard one card from their hand and into the discard pile.
- The goal of the game is to make "books": which are piles that have 7 cards of the same kind
- i. Books: 500 points each.
- In order to end the round, one player will have to get three books and discard all of the cards in their FOOT. Players cannot discard all of the cards from their foot if they have NOT collected the books required.
- 00 At the end of each round, the book values are tallied and when the fourth round ends, the player who has the most points wins.

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Player1DrawsFromDiscardPileToFoot(string);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CheckPlayer1FootForTopDiscardCardTwinMatch(string
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CheckPlayer1HandForTopDiscardCardTwinMatch(string
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Player1DrawsFromDiscardPileToHand(string);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CheckPointsInPlayer1HandForPuttingDownCards();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (string);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CheckPointsInPlayer1HandForDrawingFromDiscardPile
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         + string Player1DiscardsFromHand();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                + void Player1DrawsFromTheDeckToHand();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     int OverallPlayer1Score;
                                                                                                                                      + void Player1PuttingDownCardsFromFoot();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     + void
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                + void OrganizePlayer1Hand();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   + void DisplayPlayer1Hand();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       + Player1();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    int Player1Books;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 vector<string> PlayedCardsForPlayer1;
                                 + int AddUpPointsFromBooksForPlayer1();
                                                                 + void CheckNumberOfBooksForPlayer1();
                                                                                                  + string Player1DiscardsFromFoot();
                                                                                                                                                                                                                                       + void Player1DrawsFromTheDeckToFoot();
                                                                                                                                                                                                                                                                         + void OrganizePlayer1Foot();
                                                                                                                                                                                                                                                                                                          + void DisplayPlayer1Foot();
                                                                                                                                                                                                                                                                                                                                                                              + int Player1HandSize();
                                                                                                                                                                                                                                                                                                                                                                                                             + void Player1PuttingDownCardsFromHand();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               + int
                                                                                                                                                                                                                                                                                                                                        void OrganizeAndDisplayPlayer1Cards();
int Player1FootSize();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Playerl
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+
                                                                                                                                                                                                                                                                                                  Protected:
int GetCardValue(string, int);
                    Cards(int);
                                          Cards();
                                                                                                                                                                                                               Six, Five, Four, Three,
                                                                                                                                                                                                                                  Ten, Nine, Eight, Seven,
                                                                                                                                                                                                                                                     string King, Queen, Jack,
                                                                                                                                                                                                                                                                           int Random;
                                                                                                                            vector<string> Player1Hand;
                                                                                                                                                vector<string> DrawDeck;
                                                                                                                                                                   vector<string> CardValues;
                                                                                                                                                                                           Two, Ace;
                                                             vector<string> Player2Foot
                                                                                   vector<string> Player2Hand;
                                                                                                         vector<string> Player1Foot;
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Player2

vector<string> PlayedCardsForPlayer2;
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- int Player2Books;
- int OverallPlayer2Score;
+ Player2();
+ void DisplayPlayer2Hand();
+ void OrganizePlayer2Hand();
+ void Player2DrawsFromTheDeckToHand();
+ void
Player2DrawsFromDiscardPileToHand(string);
+ string Player2DiscardsFromHand();
+ int
```

CheckPointsInPlayer2HandForDrawingFromDiscardPile
(string);
+ int
CheckPointsInPlayer2HandForPuttingDownCards();
+ bool
CheckPlayer2HandForTopDiscardCardTwinMatch(string);
+ bool
CheckPlayer2FootForTopDiscardCardTwinMatch(string);

);
 + void Player2PuttingDownCardsFromHand();
 + int Player2HandSize();
 + void OrganizeAndDisplayPlayer2Cards();
 + void DisplayPlayer2Foot();
 + void OrganizePlayer2Foot();
 + void Player2DrawsFromTheDeckToFoot();
 + void
Player2DrawsFromTheDeckToFoot();
 + void Player2PuttingDownCardsFromFoot();
 + string Player2DiscardsFromFoot();
 + void CheckNumberOfBooksForPlayer2();

int AddUpPointsFromBooksForPlayer2();

int Player2FootSize();