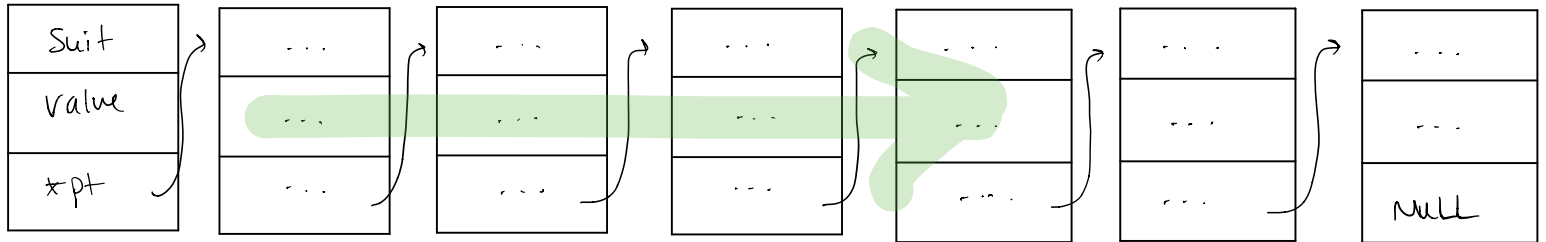
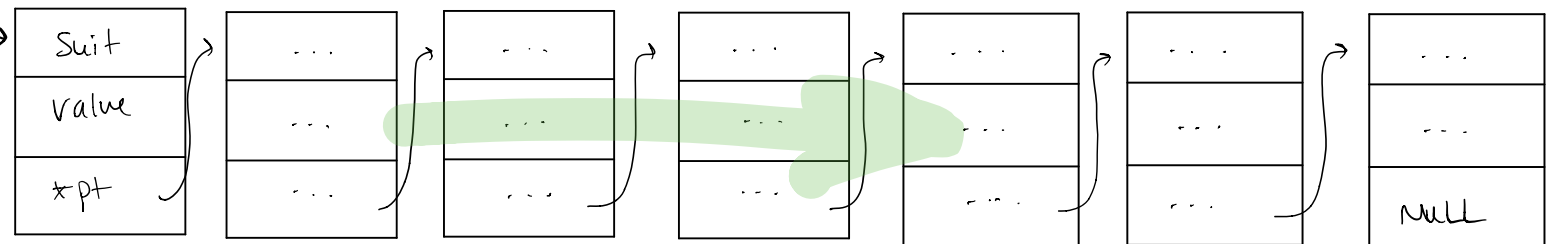
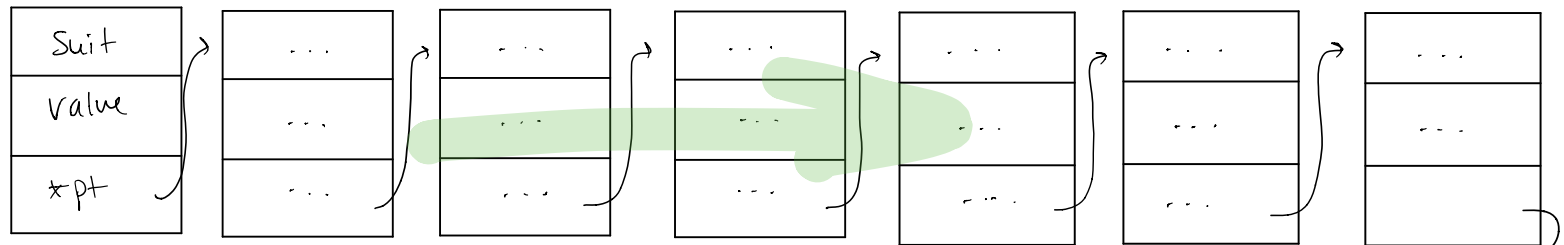


Singly-Linked List Implementation

Player 1's Hand (7 cards initially)

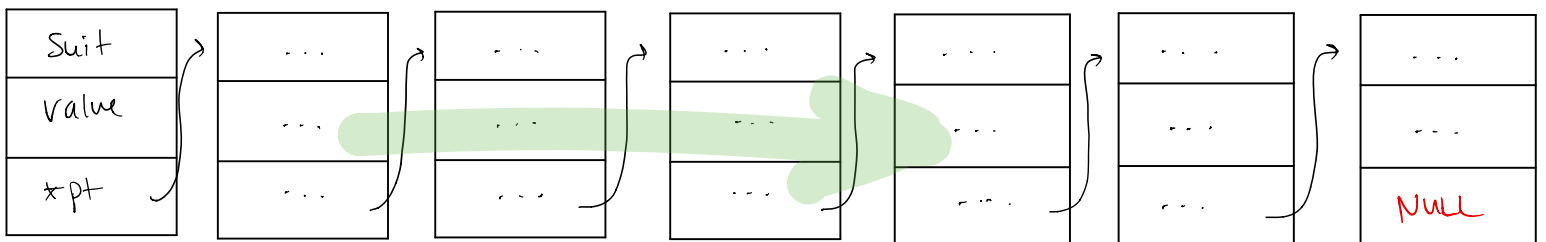


Deck of cards (Pool of remaining cards)



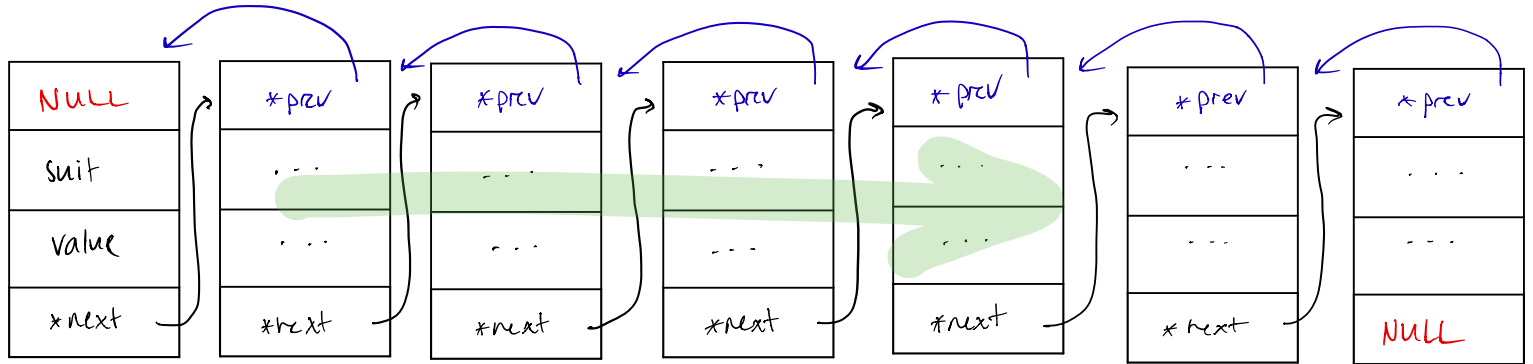
: etc

Player 2's Hand (7 card initially)

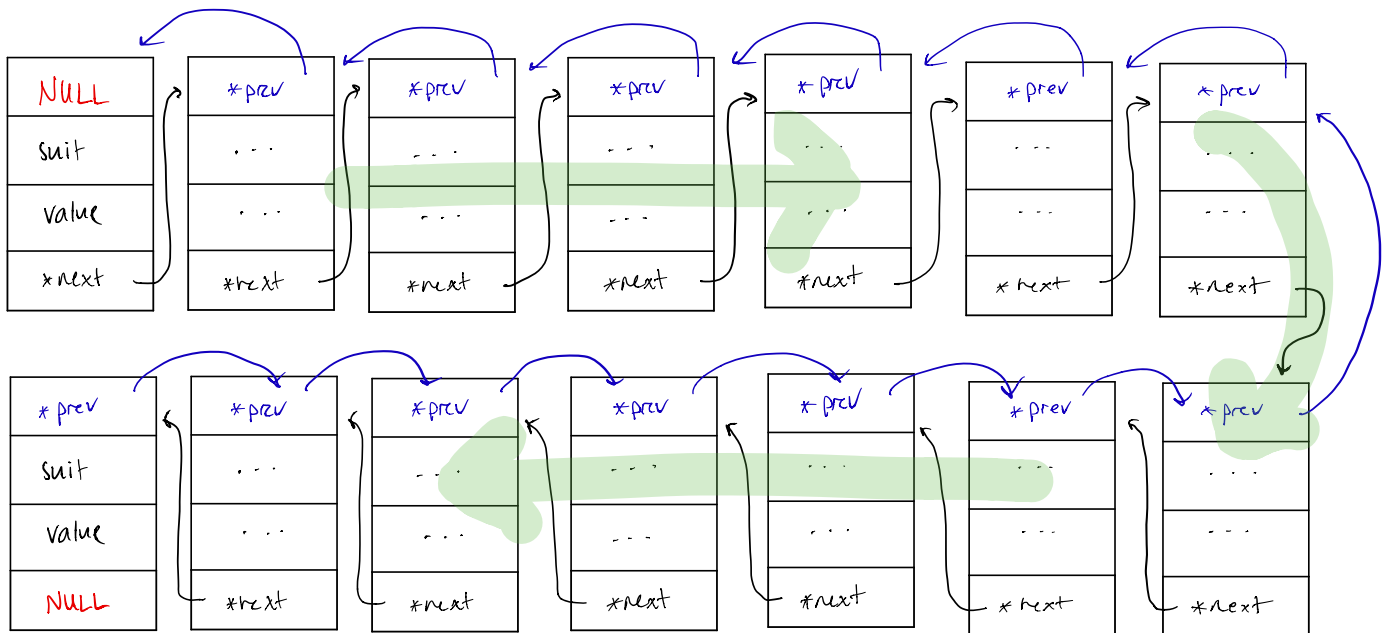


Doubly - Linked List Implementation

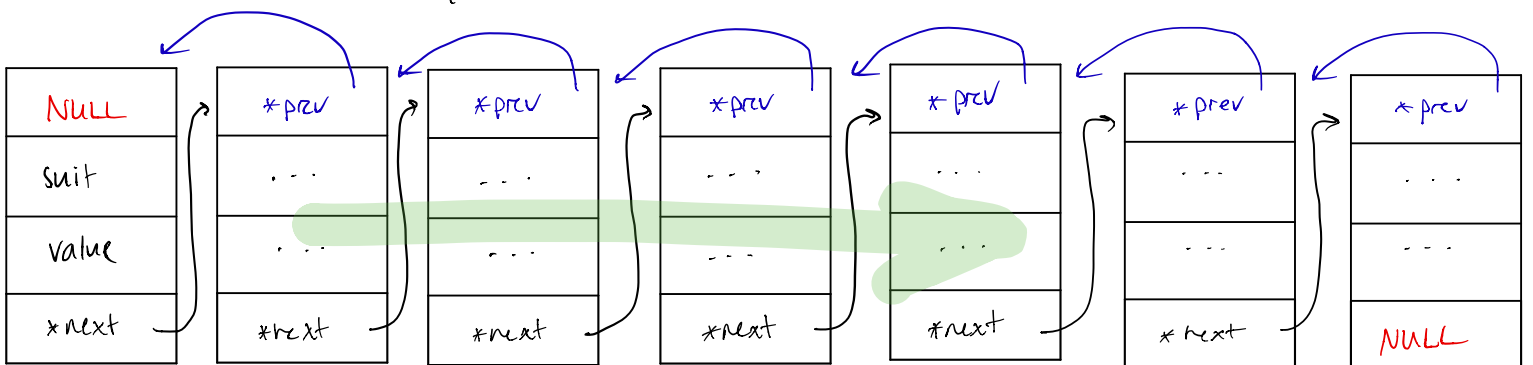
Player 1's Hand (7 cards initially)



Deck of Cards (Pool of Remaining Cards)



Player 2's Hand (7 cards initially)



◆	♣	♥	♠	♣

	...	

Rules : Two players

- 7 cards each initially, pool of shuffled cards in between.
- Player 1 asks player 2 for value of card, if any match, Player 1 recovers the cards (all) else, "Go Fish" & pulls card from pool.
- If a player runs out of cards, they are the winner.

General Structure of the Program

1. Initialize deck from file
2. Shuffle deck
3. Disperse cards to players hands (7 each, 1 at a time)
4. Begin game starting w/ Player 1
5. Player 1 requests for a card rank that currently exists in their hand
6. check if Player 2 has that rank (all suits)
 - if so, give them to Player 1
 - else, go fish & pull cards from pool of cards.
7. transfer turn to player 2, repeat step 6 as Player 2
8. Check if the cards pulled from player into hand complete a book of cards.
 - if so, remove book from player's hand as complete
 - else, continue game
9. Continue process until one of the players has no more cards

possible Functions:

void create_list() // read file & populate Linked List

void add_to_end() // used by above

card* pull_card_data() // parses line from file & return card struct.

int find_length() // finds length of L.L.

void print_list() // print output

void print_formatted_list() // print formatted output

void shuffle_cards() // shuffle deck (x number of swaps)

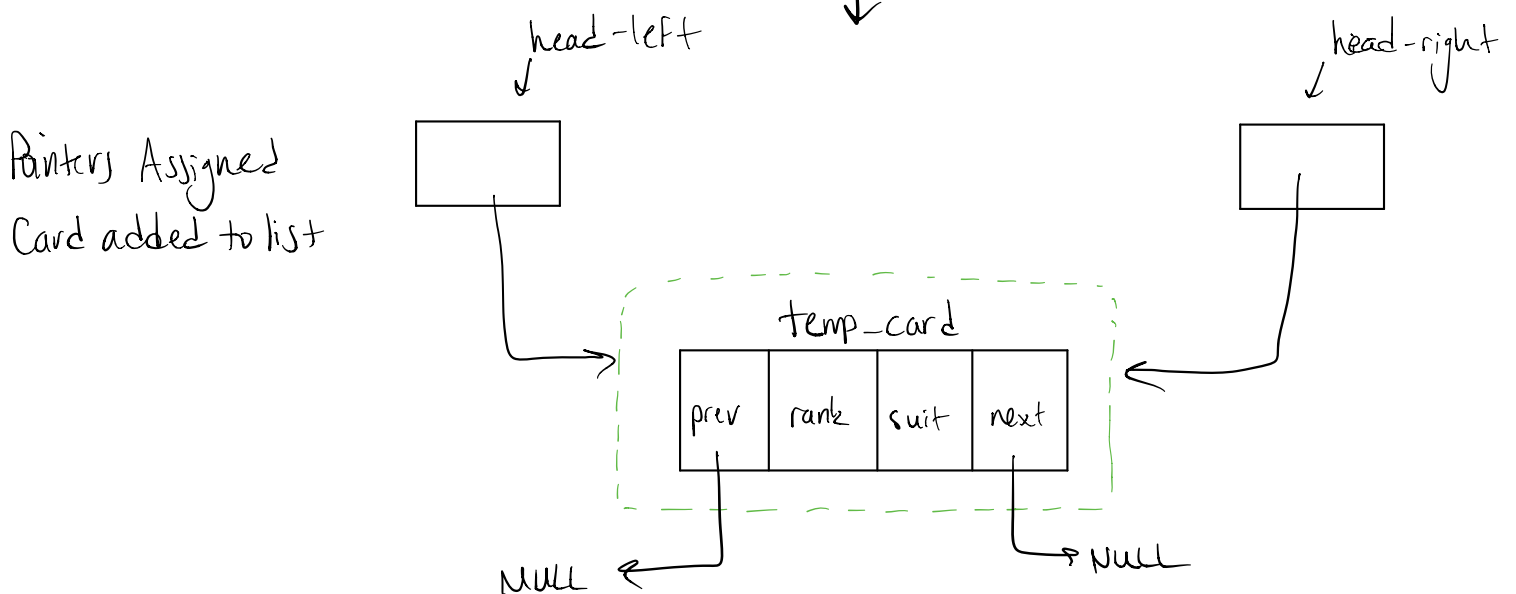
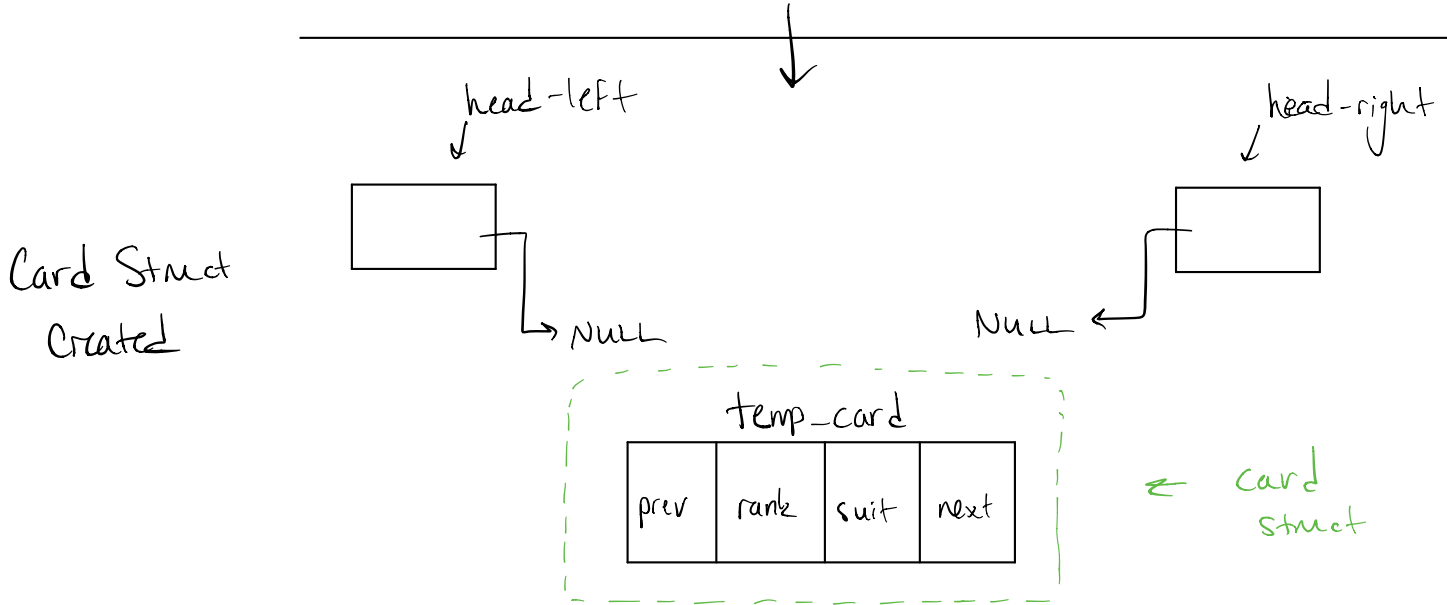
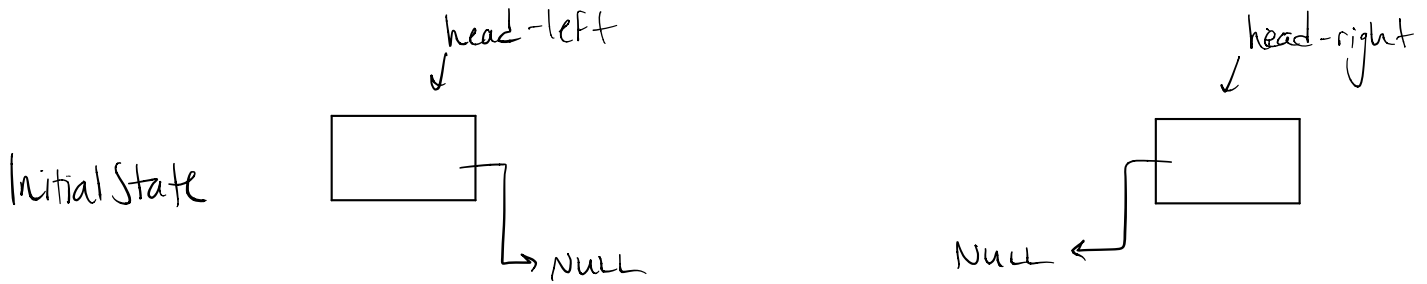
void swap() // used to swap values of cards, essentially shuffling.

void generate_player_deck(card *h1, card **p1h1);

// This Function will pull x amount of cards from

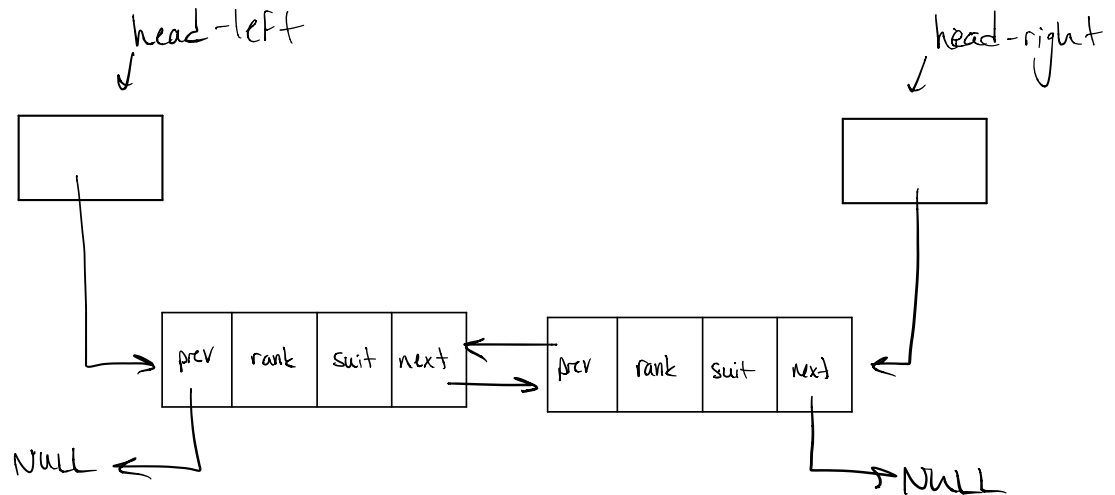
// the central deck & populate player deck

Adding to Empty Doubly-Linked List

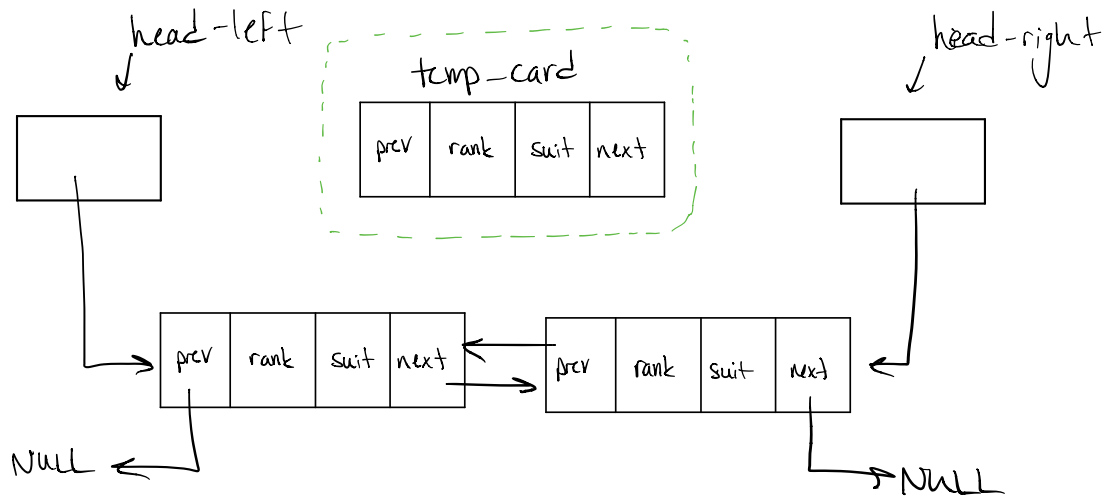


Adding to Doubly-Linked List (Non-empty)

Initial State



Card Struct Created.



Card Added to the end.

