Texas Hold'em

(and Five Card Draw)
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Overview

- Main program Texas Hold'em
- Second program Five Card Draw
- Language Python (3.6.7)
- Easily expandable to include more games

Poker Hands (High to Low)

- Royal Flush 10,J,Q,K,A same suit
- Straight Flush Straight that is also a Flush
- Four of a Kind Four cards of same value
- Full House Three of a Kind and a pair
- Flush 5 cards of same suit
- Straight 5 cards of 1 step increments 2,3,4,5,6
- Three of a Kind 3 cards of same value
- Two Pair 2 One Pairs
- One Pair two cards of same value
- High Card No paired cards, straight, or flush

Texas Hold'em phases

- Deal phase:
 - Player and dealer get two cards
- Flop phase:
 - One card is burned
 - Three cards placed on table (community), known as the flop
- Turn phase:
 - One card is burned
 - One card placed on table (community), known as the turnr
- River phase:
 - One card is burned
 - One card is placed on table (community), known as the river
- Winner phase:
 - Player and dealer reveal hand
 - Better hand wins

5-Card Draw

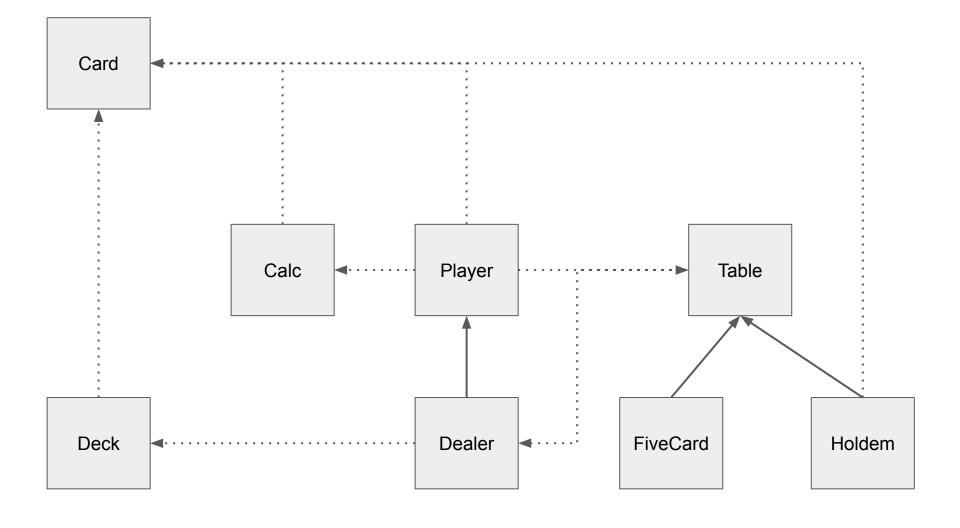
- Essentially, we converted Hold'em to have 2 phases instead.
- This game-type's unique phase is the draw phase.
 - Draw phase: takes a the user's discard choice from main, and swaps them with new cards being dealt by the dealer.

Objects

- Card
- Deck
 - Has cards
- Calc
- Player
 - o Has cards, Calc
- Dealer
 - Is player
 - Has Deck
- Table
 - Has player, Dealer

Objects (cont.)

- Holdem
 - o Is Table
- FiveCard
 - o Is Table



Things learned

- Python
 - How to use some of its features
 - How to write the syntax
- How to code a basic poker game in Python
- How to utilize OOP design in Python
 - Inheritance
 - Data encapsulation?
 - Abstraction
 - Some polymorphism

Git repository

https://github.com/rhorrace/CS420Project