AP Computer Science

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Assignment Final Exam

Texas Hold'em

Craft a Swing Based Texas Hold'em poker game.
Your game consists of a Human Player and 4 Computer "Bot" Players

To play a hand,
Each player is dealt two cards face down.

Each player is then given the opportunity to either stay in or fold

If they stay in, they must match the number of chips that are wagered for that phase.

One card is dealt and discarded and then 3 cards are placed face up in the middle of the table (this is known as the flop)

The best poker hand that can be made up from thte two cards face down plus the 3 cards shared counts for each player.

Another round of betting ensues.

Players must either match the bet or fold and give up their hand

One card is dealt and discarded and then another card is dealt face up (this is known as the turn card)

All hands are re-evaluated with the best 5 of 6 cards used

Another round of betting ensues.

Players must either match the bet or fold and give up their hand

One card is dealt and discarded and then another card is dealt face up (this is known as the river card)

All hands are re-evaluated with the best 5 of 6 cards used

Winner is the player left with the best hand
Winner takes all chips in the pot

Cards are reshuffled for a new hand

Betting Options
To keep your game simple, minimal requirements are as follows;
Each player is given 100 chips to start
Each player bets 10% of chips at every round or matches the current bet no matter what their hand (If they don't have enough chips then just put in everything they have)
The Basic Bots never fold.
Once out of chips, they are out of the game
Play continues until one player has all chips
Always allow human to start the betting for each phase
A better can bet 0 for a particular phase

Project Name	Texas Holdem
Class 1 Name	HoldemApp
Class 2 Name	HoldemFrame
Class 3 Name	MultiDeckProject1-0.jar

Rubric	
TBD	
TOTAL	165

*Recursion*Linear Search*Binary Search*Grid World Case Study*File Processing *nlogn*Hangman*