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# **VPokerOdds**

*Game's rules*

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- the purpose of the game is to make different types of bets on the **Texas Hold'em Poker** game simulation. It is possible to make bets on each of the phases in which the game is structured, such bets will be "processed" only when they can be calculated, otherwise it will remain in pending until the appropriate phase of the game to calculate the result
- at the beginning of the game, it is possible to bet on the winner of the first phase (Hole), on the winner of the game, on the winning point and on the Jackpo, such bets are possible during the 2 minutes and 30 seconds of the Timer. Upon the expiration of the Timer, cards are dealt to each player, then starts a new Timer for the Flop phase during which it is possible to make new bets, at the end of this Timer are uncovered the 3 cards of the flop and so on for all phases of the game until the final stage where the winner of the match and the winner of the hand is determined
- to the simulated poker game play 5 virtual players, you can place bets independently on each of them and the winning point at the end of the game. The game is structured according to the classical rules of Texas Hold'em Poker, so it starts with the distribution of two face down cards to each player, it proceeds with the distribution of 3 cards of the **Flop**, then the distribution of the card on the **Turn** and finally the last card of the **River**. The game uses a single deck of 52 Poker French cards
- the game is divided into 4 phases:

**Hole:** *it is the initial phase when the cards have not yet been dealt*

**Flop:** *in this phase have been dealt 2 face down cards to each player*

**Turn:** *in this phase have been uncovered the 3 common cards of the Flop*

**Final:** *in this phase have been uncovered the card 4, the Turn*

- it is possible to make bets at each phase of the game, at the end of the last phase, the server calculates the winner of the game and the winning point. To achieve the victory, a virtual player have to realize the best point using 5 cards between the 7 total available (2 own of the player and 5 common to all)
- for each phase, after the cards are dealt, the virtual player winner of the current phase is calculated based on the owned cards and the common cards on the table
- each phase of the game is regulated by a **Timer**, during it (2 minutes and 30 seconds), you can place bets
- each bet is characterized by a odds, which is calculated based on the probabilities relative to the uncovered and face down cards, the betting odds vary at each stage of the game. The odds of a bet is also the winning multiplier used to calculate the amount won with a bet
- it is possible that in a certain phase is no longer possible to achieve a certain winning point or that a player can not win in any way in this phase, in these cases the odds of the relevant bet worth 0
- the condition called "Dead Heat" occurs when the winners of a stage are more than one, in this case, if you have made a bet on one of them, then the winning (obtained by multiplying the bet per odds) must be divided by the number of winners, for example if there has been a bet of 1 euro on the player 1 as winner of the Hole phase with the odds of 3.70, if then occurs that only the player 1 wins the Hole phase, the winning is 3.70 euro, however, if the Hole phase is won by the player 1 and player 2, then the winning is  $3.70 / 2 = 1.85$  euro
- In the Texas Hold'em Poker, two or more players can be at par at the end of the game (or stage in this case) if they have made the same point, in this case the suit of the cards is not important, only counts the value of the cards themselves and

the point that goes to form. You may experience an equal condition among all 5 virtual players

- You can place bets on each of the 4 phases of the game, the type of possible bets are:
  1. Phase winning by a virtual player (**Hole, Flop, Turn**)
  2. Final winning of a virtual player (**Final**)
  3. Winning point at the end of the game (**Best Hand**)
  4. RoyalJACKPOT and PokerJACKPOT
- You can bet on one or more winning players for a phase or for the final win and you can bet on one or more final winning points at each stage. In these cases the difference between bets of the same type made in different phases is only the odds of the bet
- all bets made in a game phase are collected in a Ticket
- nella fase iniziale (**Hole**) è possibile scommettere su uno o più giocatori virtuali come vincitore della fase Hole, inoltre è possibile scommettere su uno o più giocatori come vincitore finale alla quota stabilita nella fase Hole; è anche possibile scommettere sul punto vincente al termine della partita alla quota stabilita nella fase Hole; infine nella fase Hole è possibile scommettere su RoyalJACKPOT e PokerJACKPOT. Allo scadere del Timer di questa fase il Server distribuisce 2 carte coperte a ciascun giocatore virtuale quindi calcola il giocatore che ha realizzato il punto migliore con le 2 carte possedute
- In the **Flop** stage you can bet on one or more virtual players as winner of the Flop stage, it is also possible to bet on one or more players as final winner of the odds set in the Flop stage, you can also bet on the winning point at the end of the game at the established odds in the Flop phase. In addition, in the Flop phase, you can still bet on RoyalJACKPOT and PokerJACKPOT. At the Timer expire of this phase, the Server distributes the 3 uncovered common cards called the Flop and then calculates the player who made the best point with the 2 owned cards and 3 common cards held on the gaming table
- In the **Turn** stage you can bet on one or more virtual players as winner of the Turn phase, it is also possible to bet on one or more players as final winner of the odds set in the Turn stage. In addition, you can bet on the winning point at the end of the game to the odds set in the Turn stage. At the Timer expire of this phase, the Server distributes an uncovered common card called the Turn and then calculates the player who made the best point with the 2 owned cards and the 4 common cards on the table, always taking into consideration that the usable cards are maximum 5
- In the **Final** stage you can bet on one or more virtual players as winner of the final stage of the game, unlike the other stages, in this one, the bet on the winner of the current phase and the final phase are matching. It is also still possible to bet on the winning point at the end of the game to the odds established in the final phase. At the Timer expire of this phase, the Server distributes the last common card called River and then calculates the player who made the best point with the 2 cards owned and the 5 common cards on the table, always taking into consideration that the usable cards are maximum 5
- The bet called **Best Hand** lets you play on which is the winning point at the end of the game, you can play one or more of the 10 possible winning points of the Texas Hold'em Poker. It is possible to make such a bet at each stage of the game,

including the final one, the only difference will be the odds that will change at each stage. The 10 possible points on which you can bet and related real time odds are displayed in the window at the top right as 'Best Hand'.

- It is possible to bet on **RoyalJACKPOT** and **PokerJACKPOT**, but only in the Hole and Flop phases, the bet for each Jackpot bet is always fixed and it is 1 euro. if at the end of the Flop phase, one of the virtual players has made a royal flush or the highest royal flush, the user who made the bet wins the RoyalJackpot. If at the end of Flop phase, one of the virtual players has made a poker, the user who made the bet wins the PokerJackpot. If multiple users win the Jackpot (Royal or Poker), then the winnings are divided between them

The screenshot shows a virtual poker game interface. At the top, a message says "Vaco won with three of a kind" and the hand number is "25932967". Below this, the "RoyalJACKPOT" is 1,067.88 and the "PokerJACKPOT" is 757.53. The community cards on the table are 3♦, 6♦, 10♠, and 6♥. The "BEST HAND" table on the right lists the following hands and their odds:

BEST HAND	
Royal Flush	
Straight Flush	344.57
Four of a Kind	344.57
Full House	17.67
Flush	26.51
Straight	10.94
Three of a Kind	5.65
Two Pair	2.81
Pair	2.85
High Card	

At the bottom, five player panels are shown:

- Peter (1):** 0% victory chance. Cards: 9♣, 5♦. Turn: FINAL 14.63.
- Monica (2):** 0% victory chance. Cards: 8♠, K♦. Turn: FINAL 43.88.
- Mark (3):** 5% victory chance. Cards: A♦, A♥. Turn: FINAL 1.28.
- Vaco (4):** 95% victory chance. Cards: 8♥, 6♠. Turn: 9.07, FINAL 6.56.
- Martin (5):** 0% victory chance. Cards: Q♠, 9♥. Turn: FINAL 20.06.

- at the center of the game interface (as shown above) is displayed the game board with the virtual players, each of which is identified by a number; in addition are also visible the cards on the table and the amount of the two jackpots available, also on the top left there is the betting Timer
- each virtual player has a panel displayed at the bottom, in which are the following information:
  - **Avatar:** it is the picture of the virtual player (if the virtual player is the Dealer, then there is a black 'D' letter on the red background)
  - **Name:** the name of the virtual player
  - **Percentage of victory:** it is the probability that the virtual player has to win the current phase
  - **Number and color:** the number and the color that identifies the virtual player
  - **Current phase:** indicates the name of the current phase and the victory odds of this phase by the virtual player
  - **Final phase:** indicates the name of the final phase and the victory odds of the game by the virtual player
  - **Cards:** if available, the cards in your hand
- at the top there is a window which displays text messages relating to the game

and the id of the hand

- on the right there is a panel which displays the 10 possible winning points in Texas Hold'em poker and the relative odds

the minimum amount of a bet is 50 cents, the maximum amount is 200 euro