Betting in Poker

There is an order in poker betting that we will be following in this project. So here are some things to consider when betting for this project.

1. The allowed actions are: “bet”, “call”, “check”, “fold”, and “raise”. They are defined as follows:

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| **Command** | **Definition** |
| Check | The player does not bet anything but can remain in the game. Note that if both players check, the betting round is over. Players can only check when a betting round starts. **Once a bet is placed, checking is no longer allowed.** |
| Bet | The player states an amount that they wish to bet. Other players can call this amount or raise it when it’s their time to bet. |
| Call | If a player calls a bet, it means they’re going to pay the same as what the other player just bet. A call ends a round of betting. |
| Raise | If a player says they’re going to raise, it means they are going to increase the amount of the bet by a certain amount. If the other player wishes to remain in the game they need to either call the bet or raise still further. |
| Fold | If a player says they are going to fold it means that they have decided not to play this hand any further and are conceding this round. The remaining player gets all the money from the pot and a new round starts. |

1. The player who is not dealing gets to go first when betting.
2. If a player folds, the other player does not get to bet and wins the entire pot.
3. Allowed patterns of betting:

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| --- | --- | --- |
| Player0 | Player1 | Comments |
| Call | Call  Fold | Player0 can only call if a bet has already been placed. Otherwise calling is an error. Once a player calls, the other player can only call or fold. |
| Fold | No action | Once a player folds, the next player gets no action, since they have won the hand. They get the contents of the pot and a new round of play starts. |
| Check | Check  Bet  Fold | Player0 can only check the first time they select a betting action. After the first betting round, check is no longer allowed. If both players check at the start of a betting round, the pot gets 0 credits and we proceed to the next step in the round. |
| Bet | Raise  Call  Fold | Once a player places a bet, for the rest of the round the only valid options are raise, call, or fold. |
| Raise | Raise  Call  Fold | Once a player raises a bet, for the rest of the round the only valid options are raise, call, or fold. |

1. It is not legal to bet 0 or a negative amount.
2. **Project specific rule: if your AI makes an illegal betting action, it will be treated as a fold and the other player will win that round.** [Hint: test your work.]