AI Algorithms Explanation

1. Bidding strategy

1) At the very beginning, when the AI got all the 6 cards and is going to decide which to bid, the AI will count the card numbers of different suits. Also bid = 0.
2) The AI will just choose the suit which has the most cards as the trump suit (planned).
3) If there is a card > Jack in that suit, the AI will bid for the High point, bid ++.
4) If there is a card < 5 in that suit, the AI will bid for the Low point, bid ++.
5) If there is a jack in that suit, the AI will bid for the Jack point, bid ++.
6) If there is a 10 in that suit, the AI will bid for the Game point, bid ++.
7) The AI will not bid Smudge, it's too risky.
8) If bid<2, according to the rules, AI would not bid.
9) If bid >=2, AI would bid whatever it got.

2. Card Playing Strategy

1) The first mission of this strategy is to help AI follow the rules.
2) The second mission of this strategy is to help AI win the current trick.
3) When AI leads a hand (decides the trump suit), it will play a random card from the suit which it has the most.
4) When AI leads a trick (means it can play any card), it will play the card which has the most number. The reason doing this is to try to win the current trick.
5) When AI neither leads a hand or leads a trick, trying to win this trick, AI will play one of its trump card if it has, if not, the card of the suit led, if not, a random card.