this notebook

CFR Design Discussion

Tuesday, March 31, 2020   11:03 AM

1. CFR($\emptyset$, i, t, 1, 1)
   How to define Terminal -> is_terminal(h)

   Game Definition
   2 Rounds
1. Round Pre flop- maximum 4 Rounds of bets and calls
2. Flop - maximum 4 Rounds of bets and calls
3. Exit

1. If last action is F OR
2. If last is call in history and round is 2 OR
3. If last 8 characters 8*b and round is 2

Assumption ->
Shuffle the card
First 2 cards to p1
Next 2 to p2
Next 3 to public

Doing it for billion times

Utility(H):
1. If 1 player folded then value of pot till now to other player
2. How to calculate HS <- Solved from Web

Let I be the information set containing h
1. I = combination of self private card and public card

A(I)
1. If last char is f than null
2. If last char belongs to cards than b,f
3. Else b,f,c

P(h)
1. If last char is c or f or 8 bs then return chance
2. Else go to last chnace node and take length %2

σ t (I, a)
Function(t,I,a)
    If not define return σ t (I, a)
    = 1/A(I) and retuirn
    Else σ t (I, a)
rI [a]
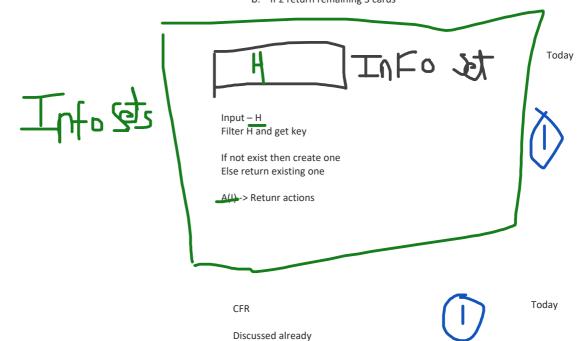Function(I,a)
    If not exist initalize and return 0
    Else return value
sI [a]
Same as r

Poker . erv.

End of Thursday

1. Shuffling Cards
2. Return who won HS
   HS(comb1,comb2)
3. U(H)
4. P(H)
5. Is_Terminal(H)
6. Deal Cards(1/2)
   a. If 1 return 4 cards
   b. If 2 return remaining 3 cards

2

Info Sets

H   Info Set

Today

Input – H
Filter H and get key

If not exist then create one
Else return existing one

A(I) -> Retunr actions

1

CFR   Today

Discussed already

1

Merging Code   Play/Run

By Sunday   1. Initialize everything
                                2. Run CFR
                                3. Need to store weights after every 100 iterations
                                4. Get strategy
                                5. Store it in a file

3

By Tuesday   Result Analysis

                                Play game with given strategies
                                Get a series of money loosing plot
                                1. While Training
                                2. After Training

2

By Wednesday   Play a game with a strategy sigma with human

1