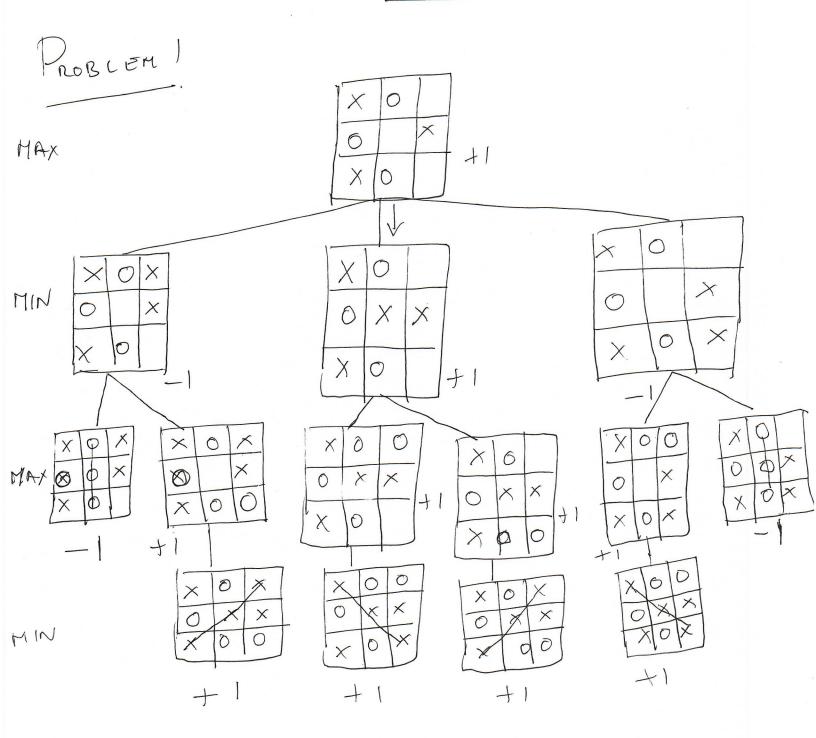
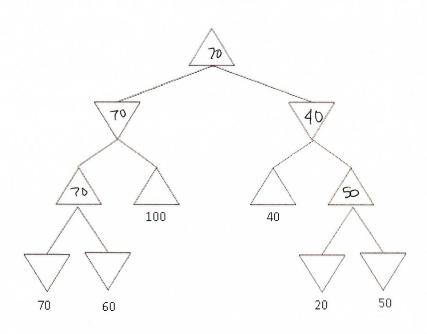
CSE 4308/5360 ASSIGNMENT 3



PROBLEM 2 MAX MIN MAX (b) If MAX knows highest possible value is 10 then
it can prune all successors of the fiding one with MAX MIN

MAX

MIN



If both MAX 2 MIN follow optimal Strategy
MAX will place win 70 (As MINMAX Slates).

If MAX plays optimal and MIN plays some
random Stategy, MAX Can win either 70
Gr 100

So Jon MAX: Best: 100 Worst: 70 PROBLEM 4

250

0.25

0.75

2.00

1000

0

400

0.5

0.25

0.25

0.25

0.25

0.25

PROBLEM S

1000

-400

I is independent of all Ethen ventices so it can be considered as an independent subpublished solved space (b.)
All rodes have RV of 3 initially. Both Re & Ri have degree teuristic of 5 Pick one. Let Re be fist varidole Non W, Ri, C, S, D have MRY (2). Et these Ri Lew Degue Leuristic Et 4 Pick Ri next Now Wy C have of this C has MRV (1) Degree houristie of 1. Pick. C rext. Now W S Love HRY (1) Degree Louristie of of this 5 has Pick S rext.

Now W D Love MRV(1)
87 thase 158th 100, w here Degree Lewistic 8
Pick 1.
Let us pick W rext
Now Dhas MRV (1)
Pick Drext
Now Nord V have MRV (2)
of the both have Degree heuristic of
Pick one.
Let us pick N next.
Now V has MRV (1)
Pick V last followd by I

(c)

Re: G.

Ri: B

c: R.

s: B

D: R.

W; R

N: R.

V: B

I: B

PROBLEM 6

The modified algorithm is given by.
taking MINMAX and Changing MIN-VALUE
to.

John Chion MIN-VALUE (Slate) returns a willing blue.

If TERMINAL-TEST (slate) thankfum UTILITY (state)

Preturn. MAX-VALUE (DEEPGREEN More (slate))

If deep green wore picks the optimal staategy then this algoritm will return the exact strategy as MINMAX and have the same payoff but will explore fewer nodes (since we don't iterake over all moves that MIN would make). If deep green were is sub optimal then it is possible for this modified version to get a better result

become it can take advantage of suboptimal mores. It will also visit ferrer nodes.