

*Min Max with Alpha Beta for Tic Tac Toek The goal of Tic-Tac-Toe is to be the first

player to get three in a now on 3x3

good:

"x" always goes first.

players alternate placing 'x's 2+0's on

board intil either: Ow player has three in a row horizontally vertically or dragonally:

(2) All niw Squares are filled. set Containing a list of all possible win Conditions inside "proposties.py", if a player places 1/2 or "0" s is and of the first they are declared winner. The winning States ax! Winning steetes = ([0,1,2], [3,4,5], [6,7,8], [0,3,6] (1,4,7), [2,5,8], [0,4,8] 14/4/1/10[2/4,6]), (14/1) programmer has created a dunmy bot The Grane Board initialized the fre spaces to Nove. (11st of Noves). programmer also created a minmax bot which uses min Max Algorithm with Alpha Bita pragating to deside the but more.

01. 0) The lowers path cost g(n) can be the cost to reach the good configuration in least store. In our case we can seach the final configuration in at least 4 moves : 4p, up, Since all moves are equally costly we Compute g(n) as.

g(n) = 1 + 1 + 1 + 1.11 Consider the following of purrele instance! solution (an be represented as 5 2 8,7,6 } {2,1,5} }- 3,4} }- } {2,1,5} {2,1,5} {3,-1,6} } {2,1,5} {3,-1,6} 3 { -8,7 } . {2,1,6 } , {3,4,5 } Since all the moves are egrelly costly the 9(n)=6



