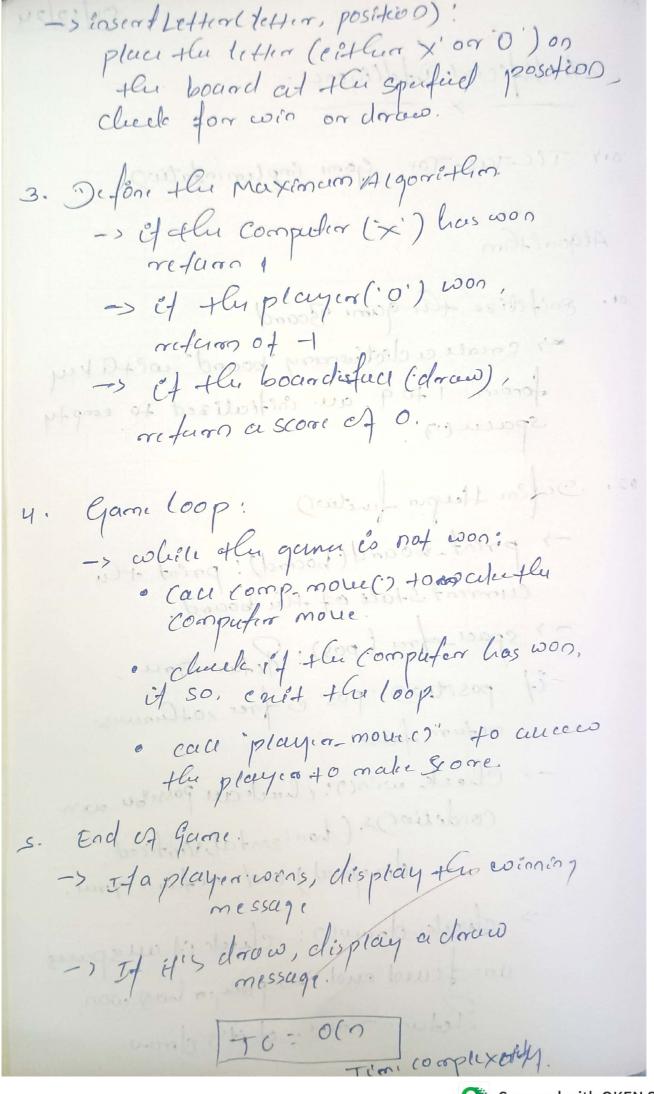
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| 02 0 | 01/10/24 | raceum cleaner agent. Solver 8 pagz le problem | ou | 1 601.0 |
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Artificial Intelligence. Check son colo on douce. X 017 Tic-Tue Toe game implementation. -> efection compain (x) has won Algorithm or. Brifilize Mu game Board => create ce dictionary board with ky forom 1 to 9, au initralized to empty space (1) 02. Defini Helper function (900) mod -> print-board (board): print +lu current State of the bound. - 7 space frei (pos): Réfum True, if position pos' à free vollencoise refuri false musici mos -> Check winer: check all possible win conditions. (horizontal, Membrael, diagonal) and refund grave. -> check-drawer: check if auspaces am found and no player has won, Letarn Trais of d's draw.



State Space Tree: Instial Board Scanned with OKEN Scanner

- consond busy consisted s. 1 olles 57 02) vacceum cleaner agent. Algorithm: stord purplace not down 01. Inificalize the Enterronment -> Le prisent the good as a too-demanderal array or list -> Make ceech cell as either donty or clean. 02. Define Agent Actions -> clean: If the agent is in a dienty cell, it cleans stee cells and -> moue up; moue the agent on cellup -> move Dows. more the agent one -> (noue left; move the agent one cell left -> Moin left: noue flu agent one col right is tomuson is said 03. Defone Season j: -> The agent can sense whether it's Current cell is donty or clean. -> The agent coo determent ets possties relater to the great. boundaris

4. Agent 's Dession - making process. -> while there are closely call in the grad 1. It the correct cell'es donty,
perform the clean action 2. If the Eurrent Celles clour, chele ton adjacy donty cul. -> It the adjacen cell is donty Mour to that cell. -> if no adjacen direty cell erid 3. Contanceu + leis process untou all cells eine clean. os De fine Algest Actions S. Implementation steps. -> loop unter Aucers circoloers * cluet Alu Current Cell * It cloudy: cleo thecels. * It clour: chele adjourn cell. & proce to the first celicury clouty can found. * If no celiquery don'ty calls, use a movement startery. 152038 ms 1.00 .80 Als agent con some colonidon this Company (with its elevently an electo get agent for defending of

contput safer lecasies of viacerims (A eas (11A) or of all 13 13) clears (0,1, A) anous B and (1,0,13) mous A (0,1,8) placed to location (8,1,0) 1 cleans pland of a conjection A (o, o, B)

(o, o, B)

(o, o, A)

(o, o, A)

(o, o, A)

(o, o, A)

(o, o, A) 1.01.01.10.1018 to : mende bot will . . . (C1)0 - 5T . Appropriately.

Enter located of reaccum (A orB) ; A Enter status of A (o forclus, 1 for donty) . O Initialient tocation condition: {'A': 'O', B; 'O' Vaccum is placed on location A 20 calous 13 is dorty mourny oroghot to Locales B. cost for such: 2 Location B has been cleaned soft book GOALSTATE: { 'A' ! 'O', B' . 'O'} per for maner: 2 TC: O(1)