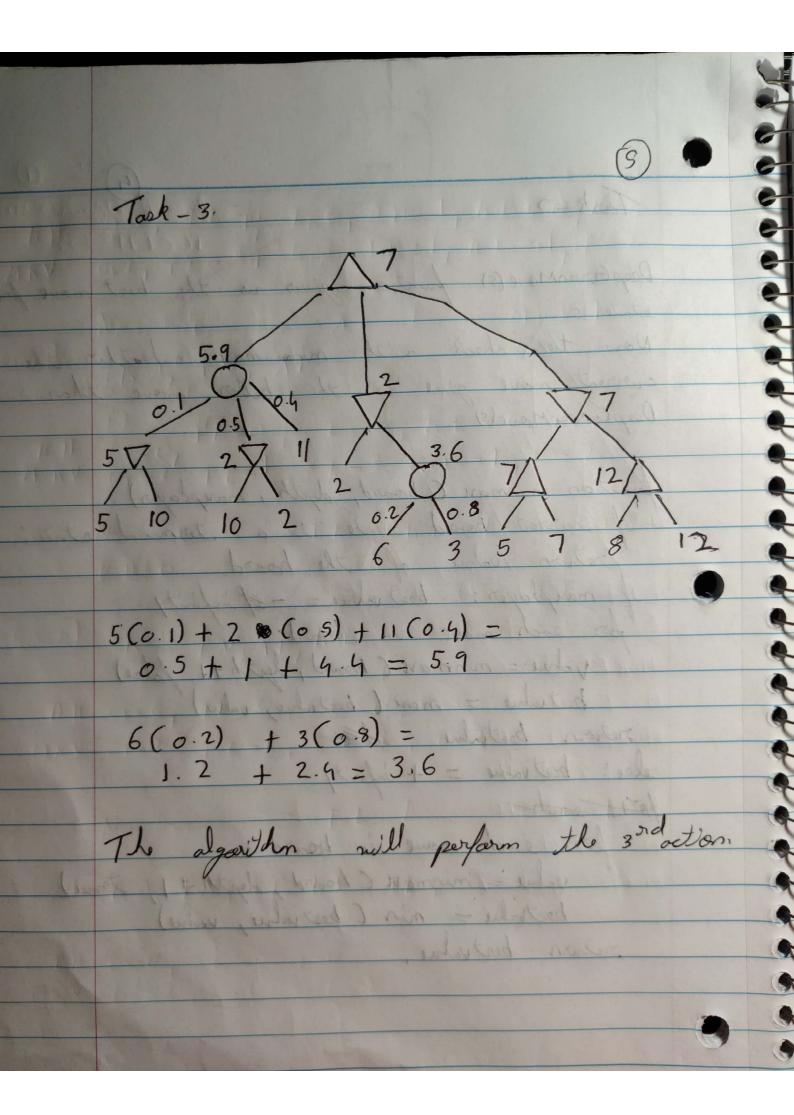
ANGAD MANJUNATHA Assignment - 2 1001718335 The min-max algorithm will pick the widdle oction. 10 15 Max [6,5] = 6 Min [2,6] = 2 Max [15,2] = 15 Mn [7,15] = 7 Man[10,2] = 10 MIN[3, 10] = 3 Max [2,7,3]=7

The answer we got from solving part A is similar to what we got in parts.

looking at a. From 1 part B's solution, if we know the man willy value, then after traversing In the left to right order and if we get the nave retility value of 15, then we will on The roder in the oright will be private 4

Task-2 Deep Grown Move (5) function gives us the best move from Now to check with whom-man wheather the coverent move give us the better move I has Deep Green Move (5). function minman (board, depth, manplayer): If everet board state is a terminal state; return value of the board for each move in board: Value = minman ( board, depth +1, false) bestralue = mone ( bestralue, value) return bee value state else: beet value = + infinity for south for each mane in heard: bestalue = min ( board, dopth 41, Tonce) return best value.



Task-43-1 1-91,0-13,1-17,0-10 40 MRV 6-2, TL-12, SU-3, AP-1, KE-1, 1 Ob. In the beginning the degree houristic of each state are as follows: G'-1, TL-2, TN-4, SL-0 KA-5, AP-3, KE-2, P-1

and MRV of each is 3.

The first variable relected is KA because it has

the Ligest D.H value

KA G-0, TL-1, TN-3, SL-0, AP-2, KE-1, P-1 Next me go for TN because its DH. is 3 and all variables connected to KA now have MRV as 2. Soloted KA, TN

O.H G.-0, TL-1, SL-0, A.P-1, K.E-0, P-0 MRV G-2, TL-2, SL-3, A.P-1, K.E-1, P-2 Non me relect A.P hecours MR.V-I and O-H-I Soluted K.A, TN, AP. D.H. G.-O, TL-O, S.L-O, K.E-O, P-O M. R.V G7-2, T.L-1, S.L-3, K.E-1, P-2 Non ne solut T. L or K. E bocaus M. R. V - l and to Ing the Theying the done haste to a Selected K.A, TN, AP, K.E 5-1- TL-2 PTN-4 SULO D.H G-0, TL-0, 5.6-0, P-0 M.R.V G-2, T.L-1, S.L-3, P-2 The free variable soluted in KA beaute Now we select T.L because M.R.V-1 and D. H=0 Soluted KA, TN, A.P, K.E, TL, DH C1+0 TL-1 TN-3 SU-0 AP-2 KI-1 D.H G-0, 5L-0, P-0 MR.Y G-2, 5.L-3, P-2 Non ne select either Grorp because M.R.V=2 and 0. H-0

Soloted KA, TN, A-P, K.E, TL, GA D.H PB-0, 15-L-0 N.R.V P 0 - 2, S.L-3 Non ne Pick of because M.R.V-2 and D.H-0 Soluted KA, TN, AP, K.E, T.L, G., P Remaining do SL. Therefore related variable are

KA, TN, AP, K.E, T.L, G, P, S.L

C. KA TN AP K.E TL G P S.L R RGB RGB RGB RGB RGB IN->KA KETKA IL->KA 6->KA PTN KE -> TN TL =>AP +N->AP TNJKE P->K.E APOTL d. Yes ne car: use stometive of problem to note e reported, ne can Freat SL as a separate 5 mb graph. Thus roducing time complexity.

