Mame: Devang p shinde Class : BE-T7 Roll Mo: 61

Do P Dos

sablect: Is lab.

Remark

·sign

min-mat Algorithm: Min my algorithm Min - max alogarithm is 9 recursive a backfracking algowhich is used in decision-making and game thisy or provide an optimal more for the player asympton that opponent is also playing optimally - Min max algo uses recursion to search through the same-tree -In this algo two players play The game, one is called max and others is called MITI. - WIH - wax also is mostly doeg to game playing in AI - 5tep 1: lets take A is the intial value State of me tree suppose maximite takes first turn (when a) which as worst - case intig raine = Indinity, and mimigate will take next tyrn which has worst- lave intial value = + indinity.

=) Mode A -) Maximizer Ferminal Terminal hode. Step 2 ' first we find the utilities value for the maximized ilts Thial value is - 00 so we will compare each value is terminal state with intial value or maximited and determine the higher notes values . It will tind the maximum among all. for node D. max (61-00) => max (62) = for node E: max (4,-7)=+ toy no de t- max (-4,-00) =) max (-4,-1)=-4 for node 4. mg+ (-17,00) =) mg+ (-17,-15)=+5 - maximizer - minimiter A > F A > G - minmitor Jeanny a) note.

step 3. In the next sopstep 11+5 a tyrn for minimal iso it will compare all hodes volve with two and will tind the 3rd layer note value. for note B = main (6,4) = 4 for note (- min (-4,-15) = -4. (=) A - maximaler JB 5-4=>c -minimizer - Step 4 How its a tyrn for maximites and It will again choose the maximum or all nodes values and tind the maximum value for the root note for not A: mgt (4, -4) =4 (4=) A maximizer 4/=>c minimiter 1670 ATE A =>4 maximiter Hence 14 was the complete workton of the Frinnax algorithm with two plager