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Class: B.F. I.T

ROLL NO: 62

Subject: IS LAB

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\* min-max Algorithm: min-more algorithm is a recursive on backmacking algo which is used in decision making & game theory, It provides an opinal more for the player assuming that opponent is also playing optimally min max algo uses recursion to search through the game-tree. In this algo two players play the game, one is called more & other one is called min. min-max algo is mostly used for game Maying less take A is the initial state of the tree. Suppose maximizes takes first twen (when on) which or has worst- case initial value = - injining & minimize unit take next turn which has morst Case initial value = + infinity 1 => node A - maximizer B - minimizer (=>F) (=>G) - marinizes terminal rode terminal values

- Step 2: just we find the Utilities value for the maximizer , its Initial value is -00. so we will compare each value in terminal state with writial value of maximizer & determines the higher hodes values. of will find the maximum among all. for node D: max(-5,-0) => max (-5,-1) = -1 for node E: max (-16,-co) =) max (-16,0) = 0 for node F: max (-1,-00) => max (-1,10) = 10 for node G1: max (-5, -00) =) (max(-5, 19) = 19 maximizer 3=)B minimizer SE moximizer

terninal values

terminal node

Step 3: for node: B: min (10,19) = -1 for node: C: min (10,19) = 10



