M. Kari	at - Ra	aigad Min-Max Algorithm	Page No.:
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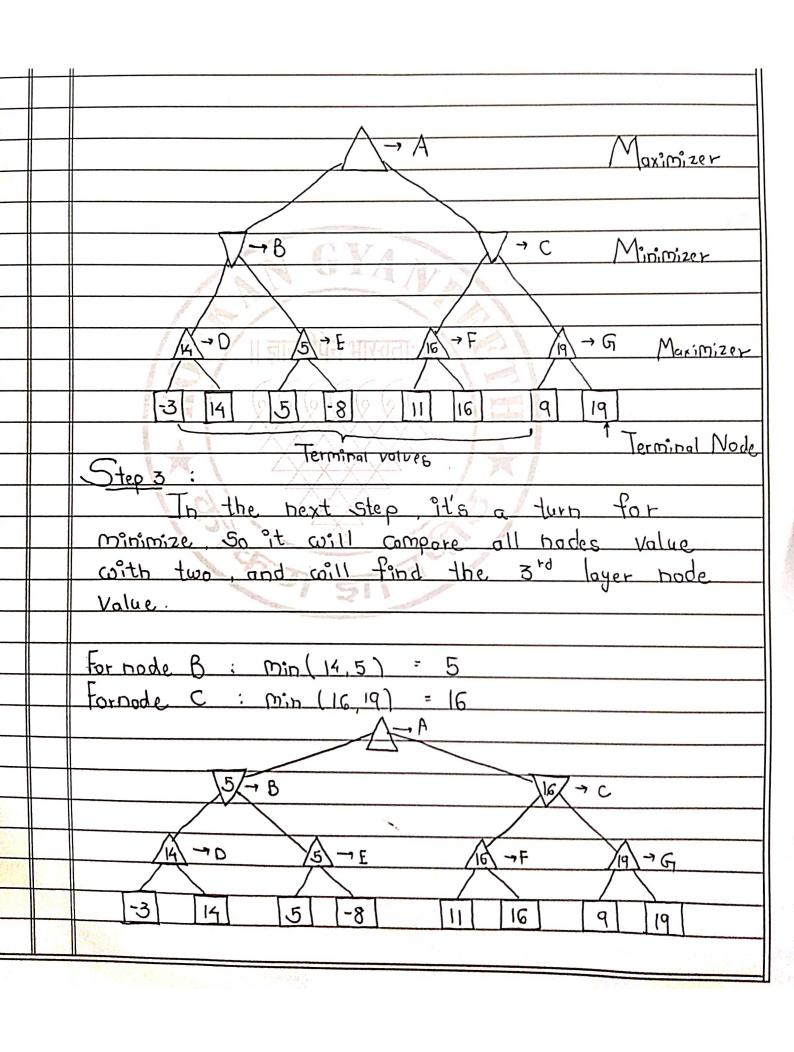
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		Min-Max Algorithm:
		→
		Min Max algorithm:
		Min-max algorithm is a
		in decision making and game theory. It provides
À		an optimal move for the player assuming that
3		opponent is also playing optimally.
		Ma
	_	Min max algorithm uses recursion to search
	-	The dis called as MAX and the other one is
		one is called as MAX and the other one is
		Called as MIN.
	_	Min-Max algorithm is mostly used for game playing
1		180mm - Al
12	*	Step 1:
		lets take. A is the initial votre State.
		of the tree. Suppose maximizer takes first turn (when or) which has worst-case initial
		Value = -infinity and Minimizer will take next
u .		turn which has copyst-case initial value =
		tinfinity
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	Node A Moissine
	J→B /- C Min
	N→E →
	$\rightarrow D$ $\rightarrow f$ $\rightarrow \uparrow$
,	
-	5 -8 11 16 9 1
-	-3 14 5 -8
4	Step 2: First we find the utilities value for
	the Maximizer its initial Value is -00 50 We
	Will Compare each value in terminal Stats
	with initial value of maximizer and determines
	the higher nodes values. It will find the
_	Maximum among all
	$\begin{bmatrix} -3 \\ 1 \end{bmatrix} \rightarrow \begin{bmatrix} -3 \\ 1 \end{bmatrix} $
	For node D: max (6, -0) => mox (-3,14) = 14
	for node E: max(5,-00) => max(5,-8) = 5
	101 110166 6 111916 3, 301
	For node F: Max (11,-00) => Mox (11,16) = 16
	4
J. V	For node G: Max (9,-00) = max (9,19) = 19



K.G.C.E. Karjat - Raigad Now its a turn for maximizer, and it will again Choose the Maximum of all hodes Values and find the maximum Value for the root node For node A: Max (5,16) = 16 Maximizer Maximizer Hence it was the complete workflow of the minmax algorithm with two player game.