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AI Min-Max Algorithm

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AI Min-Max Algorithm.

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1 3	. 4	Min-Rasc Algorithm.
<u></u>		The second of th
14275	L.	Min-Marc Algorithm is a recursive on back-
c v n		tracking algo which is used in decesion-making
		and game theory. It provides an optimal move for
		the player assuming that opponent is also playing as primus
	م)	Min-Max algo uses necunsive to search through game
		tnees.
	J.	In this algo two players play the game, one is
		Called MAX 4 other is called MIN.
	c)	MIN-MAX ago. is mostly used for game playing in AI
	♣ 1)	15teps
	cy	THE CHEE
		Suppose max takes just tunn (when o) which he
		vonst-case initial valve=Ginfinity, & min will
		take next tunn which has wonst-case initial
		value = (+) infinity
		Node A 7 mazimizen
S .	1,6	B C -> minimizen.
		D F G -> maximizen
	$\parallel - \parallel$	
]]]]	
		Tenminal node

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	0/	Step 2: First we find the utilities value for the
		maximizen, its initial value is -co so we
**		will compare each valve in term of initial state
77.		its high initial value of mazimi maximizen & determine
	1	its highen valve of maximizer.
		For node 7: (max (10, -0) => max (10, 13) = 13
		10, 40 (13, -6) -7 max (10, 13) = 13
		for node E: max (-13, -a) => max (-17, -13) = -13
		for node $f: \max(1,-\infty) \Rightarrow \max(-18,1) = 1$
		for node a: max (= -a) => max (7, 16) = 710 16
		$\Rightarrow A$
2 61		V6 Vc
		BD GENF GG
		10 13 47 13 49 11 77 16
	()	
	(c)	Step 3: In this step, its tunn for minimizen, so
		we will compane all nodes value with two, so
		it will compane the mink valves.
		fon hode B: min (13, -13) = -13
		inin (15, -13) = -13
		for node (: min (1) = 9個 1
		M. M

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