Page No.: K.G.C.E. Karjat - Raigad Date: Name! - Pranali Jibhau Jaglap Roll No. :- 25 Subject :- Is LAB Branch /class - BEIT D.O.P Sign Mark DOO.C

Page No.:

Date:

KGCEKGCEKGCEKG	Date:
	Alpha - Bela Pruning:
	Alpha-bela fruning is search algorithm that seek to decrease the number of nodes that are evaluated by the minimax algorithm in its Search tree.  It is modified Version of min-max algorithum Alpha-beta bela pluning can be applied at any depthe of tree, and sometime it not only prune the tree leavabeth also entire sub tree.
	The Two-parameter can be defined as:  a) Alpha low): The highest value choice. we have t  Thit is value of alpha is - oo  b) Beta (B): - The highest value. Intially value of  Beta is + oo
	Rules and condition to performing an algorithum! -  1) The max player will only update the value of alpha. (\infty)  2) The min player will only update the Value of Beta (\beta).
	3) We will only pass the alpha, beta Values to the Child nodes.  4) Node Values will be passed to upper node insted of Value of alpha and beta.
	Condition to prune : a > b or b < a

K . C	Page No
Karia	at - Raigad Date :
GOEKGO	EKGCEKGCEKGCEKGCEKGCEKGCEKGCEKGCEKGCEKGC
GCERGE.	
	Step 1:-
	X = - ∞
	B = 100
	7 - 10
	, k=-∞
1	P = R
	<b>bo</b> ~ 00
	<b>€</b> C: -∞
	B = W
	X 5 - 00
	β= ω
	2 -2 17 6 -11 12 0 6
	2 -3 -17 5 -11 12 0 6
	step 2:-
	/2
	β= ∞ /
	D= &
	2  -3  -17  5   11   12   0   6

<b>K.G.C.E.</b> Karjat - Raigad ————————————————————————————————————		Page No.:
		Date :
KGCEKGCEKGCEKG	CEKGCEKGCEKGCEKGCEKGCEKGCEKGCEKGCEKGCEKG	GCEKGCEKGCEKGCEKGCEKGCEKGCEKGCEKGCEKGCEK
	SteP3:-	
	2/6000	
		X
	β = 2	
	2	$\wedge$
	1/2	
	[2]-3 [-17] [5] [-11]	12 0 6
	Clep,	
	Step 4:-	
	2/- 1/2	57
	β= 2	<del>\</del>
	1	
	x= <b>&gt;</b> 17	
	2 B:2	$\wedge$
	-97	
	2 -3 -17 5	11/ 12/0/6
	Class 5	
	Step 5!-	
	2	
	<b>*</b>	<b>X</b>
	K=5	
	2 X=2 P=2	12 M = 12
	P= M	/ \ B = 10
	2 -3 -17 5	-11 72 0 6

K.G.C.E. Page No.: Karjat - Raigad Date: Step8 !-B = 00  $\infty = 2$ B = 6 = 00 B= 2 BEO 6 2 Step 9:-W = 6 B=00 B = 6 BID -17 6 5 2

- Min (left)

- Min (left)

2) \beta (00,2) = 2

8) m (- m - 17 ) = - 17

x(-17,5) -5

× (-0,5) = 5

Page No.:

Narjat - Narg		Date :
RGCERGCERGCERGCERGC	EKGCEKGCEKGCEKGCEKGCEKGCEKGCEKGCEKGCEKGC	CEKGCEKGCEKGCEKGCEKGCEKGCEKGCEKGCEKGCEKG
	1) K(2,6): 6	- TOP (max
5	β(2,5) = 5	- For min right
6	) β(-∞,6)=6	- max sight max
7)	× (2,6) = 6	Bollom right
	(6,-11) = 6 (2,-11) = 2	
8	) β( \( \omega \), \( \omega \) = -11	- nun right
9.	) bc = 6 P = 00	- max
10	x = (6,2) = 6 x = (6,2) = 6	Polition.
	β=∞	,
	,	

