

Scanned with CamScanner

Date Subject - Is Lab D.O.P Remork D.C.A





Date:

## Alpha-Beta Planning:

Alpha-betaplanning =) Alpha beta planning is a modified meason of the Min Max algo.

It is an optimization technique for the min Max algo.

- Alpha (4) = The test Chight - Value)

- Initial Value of alpha is -00

- Beta (B) = The test Chyhest Value)

= initial Value is Beta is too

- Rules & Condition "-

1) The Max player will only update the value

2) The min player will only update the value

3) We will only the alpha beta values do the Child nodes.

4) Mode value will be possed to upper hade inserted of value of alpha & beta.

- Condition to a 260. b50

- when alpha is greatly than or equal to bester.





Date:

 $\frac{1}{4} = \frac{1}{8} = \frac{1}{9}$   $\frac{1}{4} = \frac{1}{8} = \frac{1}{9}$   $\frac{1}{6} = \frac{1}{19} = \frac{1}{1$ 

1) or (-05,6)=6 or (-00, 2)=2 -Max (Bottom 1est) or (6,2)=6

2) B (00,6)=6 - Min (left

3)  $\propto (-\infty, 4) = 4$   $\propto (-\infty, -7) = -7$   $\propto (4, 7) = 4$   $\sim (1eft node)$ 

4) 9 (24, -4) - TOP (Max)

5) B (6,4) = 4 - Min (right)

3) B (-0,4) = 4 - Max (Bottom right)

(right node)





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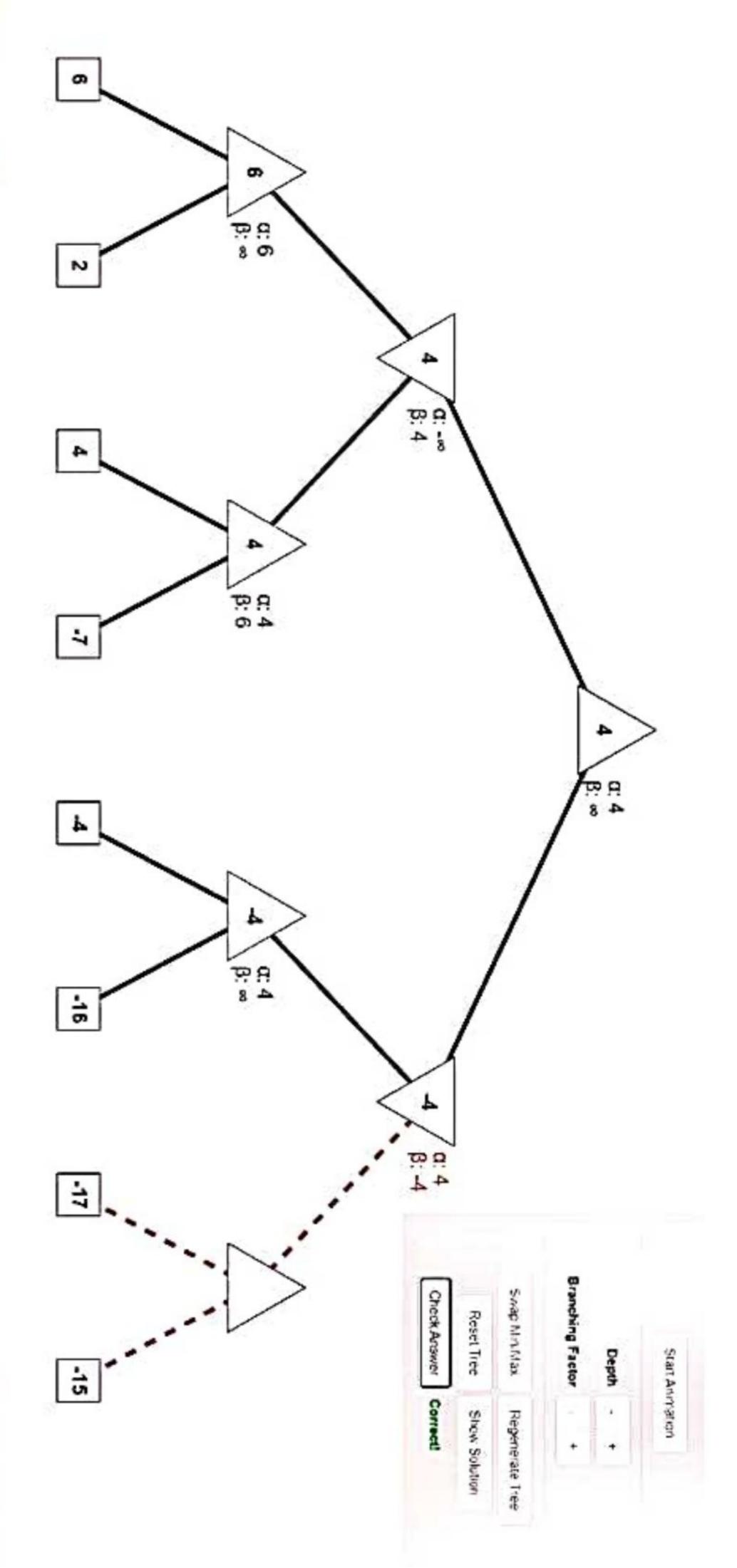
$$T) \propto (4,-4) = 4$$

$$= \propto (4,-16) = 4$$

$$= \propto (-4,-16) = -4$$

9) 
$$x = 4$$
 $B = 00$ 
 $C(4, -4) = 4$ 

Solution:



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