	Page No. Date)
	Alpha beta-Pruning (module-3)	
24/47/10	Name: Ruchita D. Guray	£
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Alpha-beta Pruning Assignment (module 2)

Alpha-beta-pruning: Alpha beta pruning is a modificed version of the minimax algorithm. It is an aptimization technique for the minimax algorithm

Alpha(x) = The best (highest-value)

= initial value of alpha is - or

Beta(B) = The best (lowest value) = initial value of Beta is +00

The alpha-beta pruning to a standard minimax algorithm returns the same move as the Standard algorithm does, but it removes all the hodes which are not really affecting the final decision but making algorithm slow thence by pruning these rode, it make the algorithm Faut.

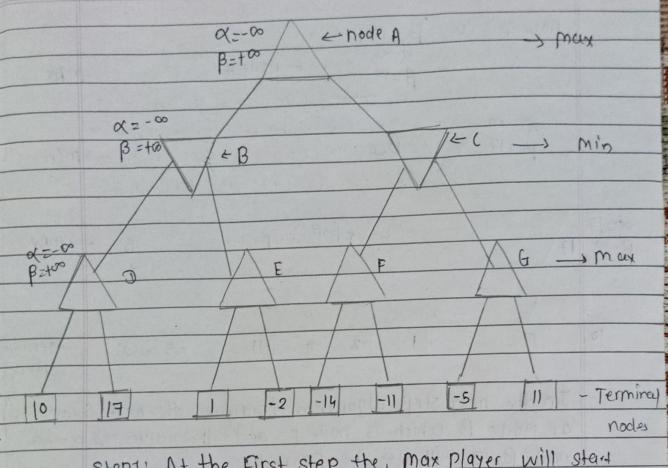
* Rules & conditions

- The max player will only update the value or culp ha

- The Min player will only update the value of beter - We will only pass the alpha, beta values to the child nodes

node values will be passed to upper nodes instead of values of alpha and beta.

Condition to Prune = 07 B or BEX



Step1: At the First step the, Max Player will start

pirst move from node A where d= -00 and B= +00 there

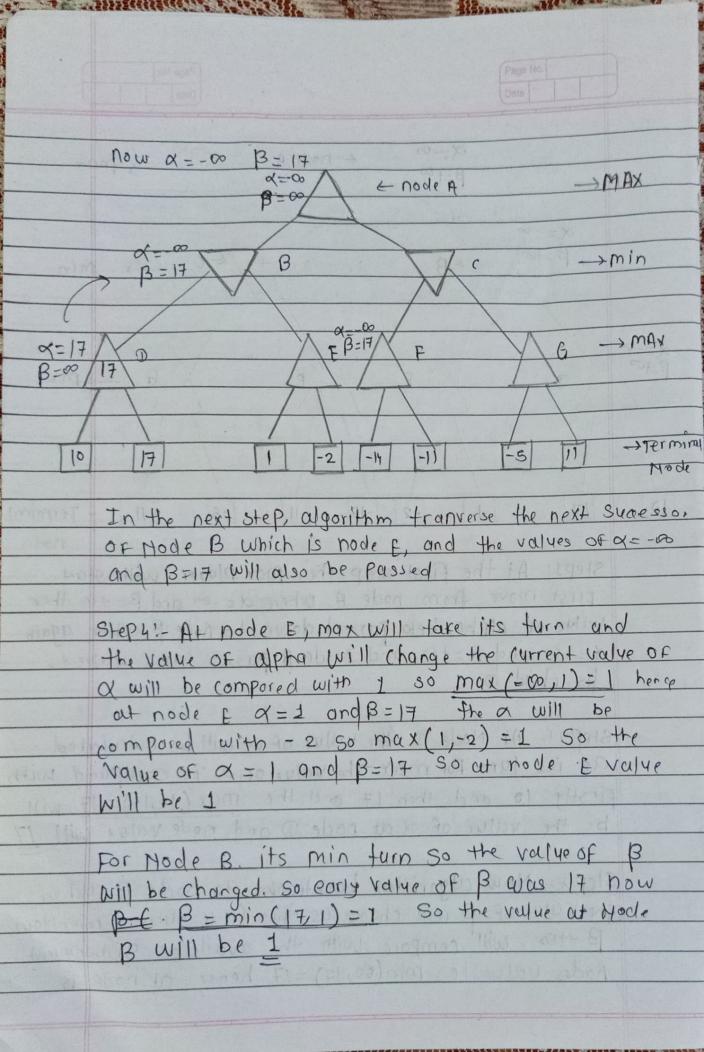
value of alpha, beta passed down to node B where again

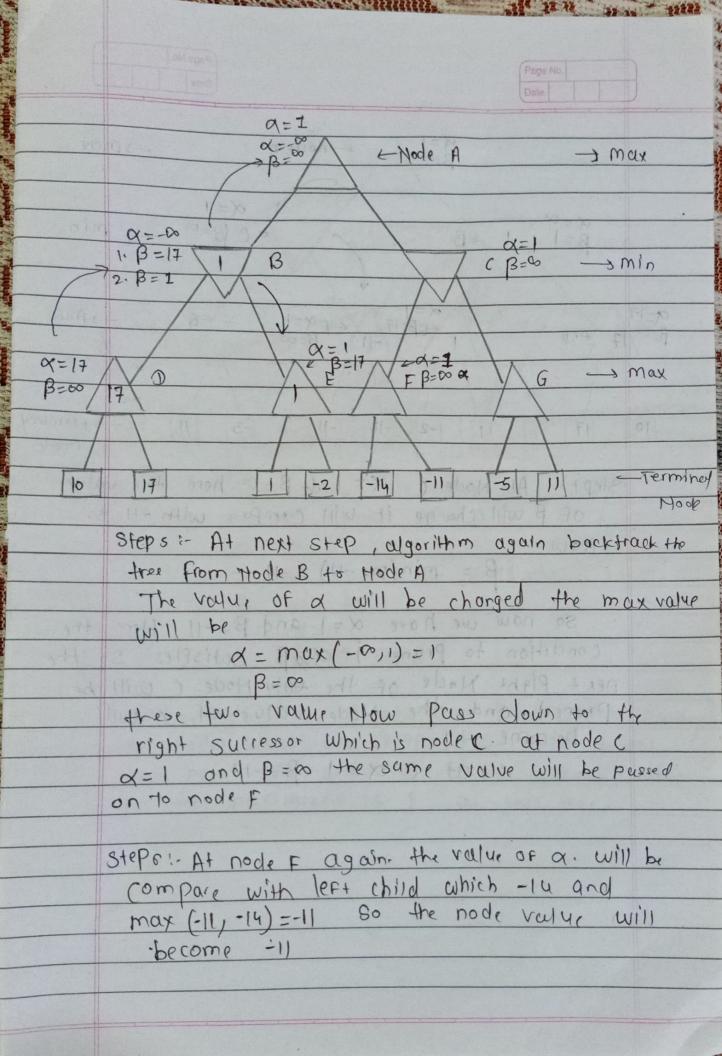
d = -00 and B= +00 and Node B passes same value to

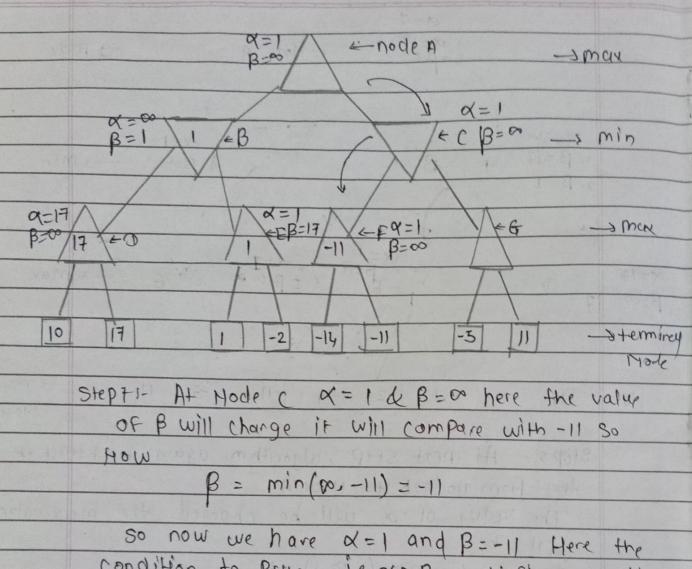
its child 0

Step 2!- At Node D, the value of ox will be calculated as its turn for max. The value or ox is compared with pirsty 10 and then 17 and the max (10,17)=17 will be the value of ox at node D and node value will 17

Step 8:- Now algorithm backtracks to node B where the value of B will change as this is a turn of min, Now B = too, will compare with the available Subsequent hodes value i.e min (00, 17) = 17 hence at node B

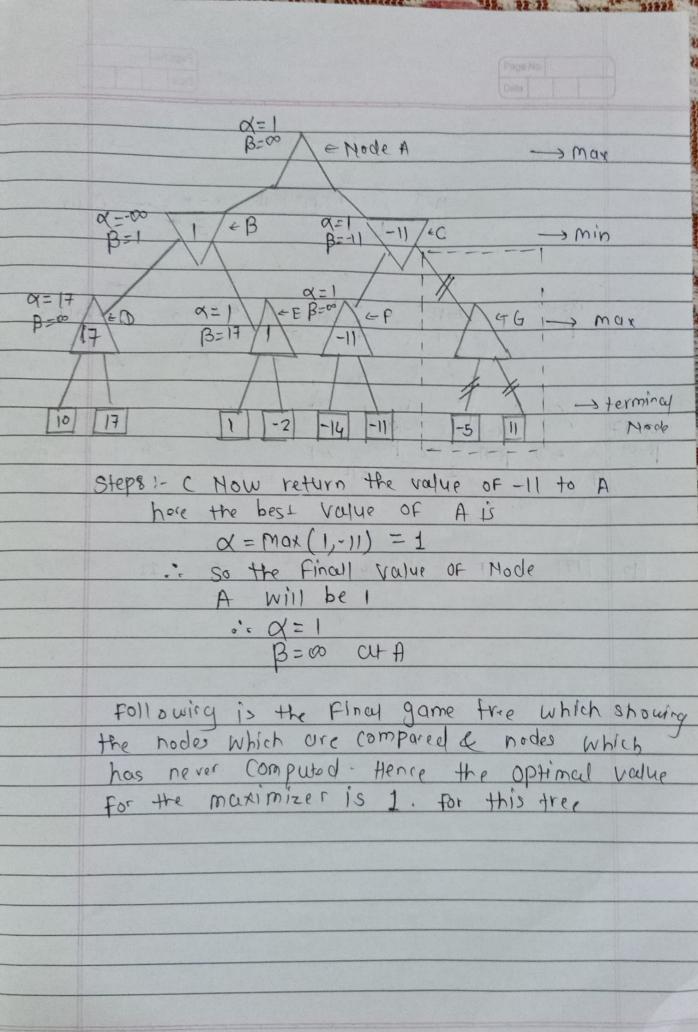


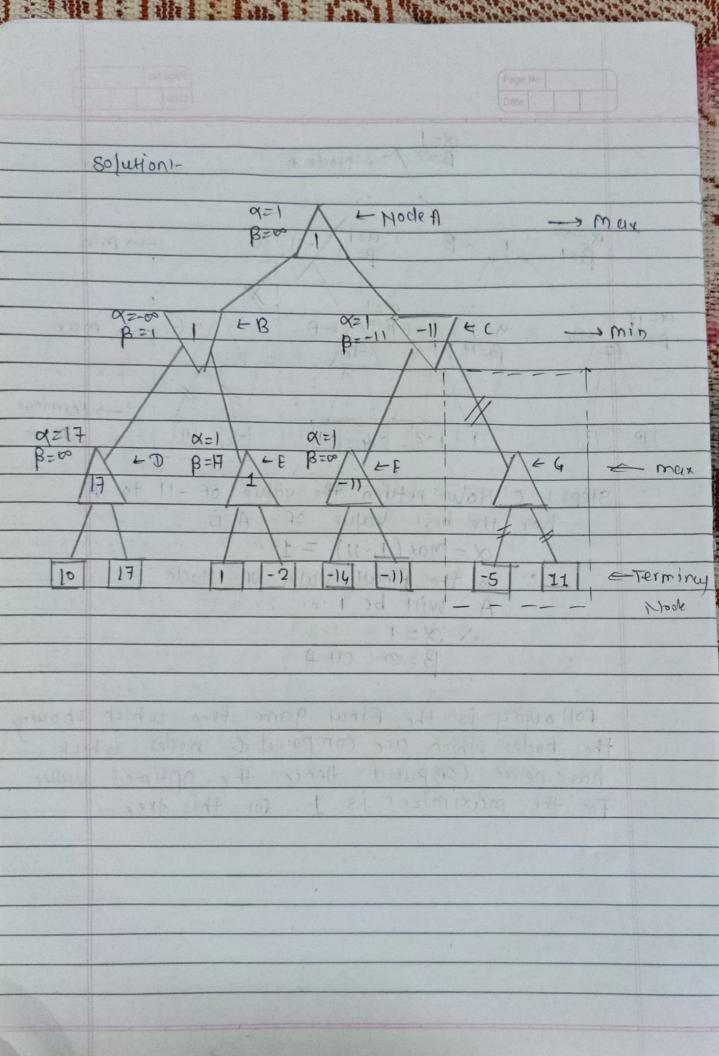


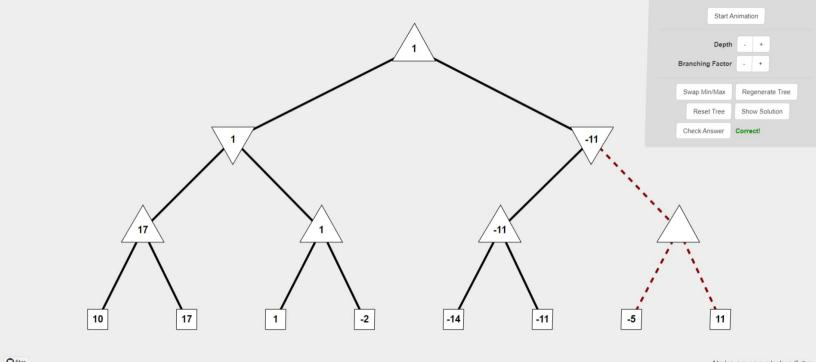


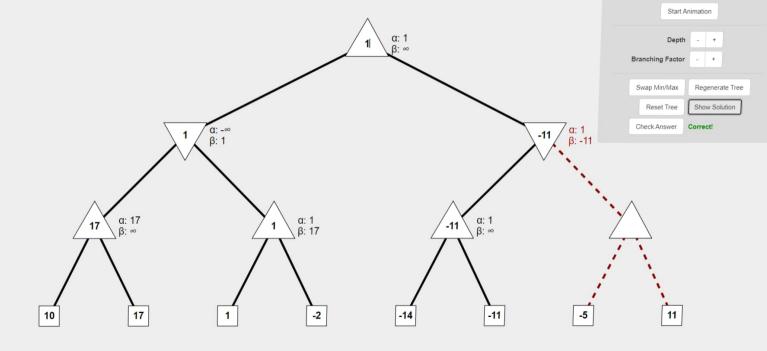
So now we have $\alpha = 1$ and $\beta = -11$ Here the condition to prune i.e $\alpha > \beta$ satisfies. So the next Right Mode of the tatu. Mode c will be pruned, and the Mode value of c will be be come -11

: at C <= 1 B=-11









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