

Alpha-Beta pruning :

Alpha-beta pruning = Alpha beta pruning is a modified version of the min max algo. It is an optimization technique for the minmax algo.

Alpha (α) = The best (highest value)
Initial value of alpha is $-\infty$.

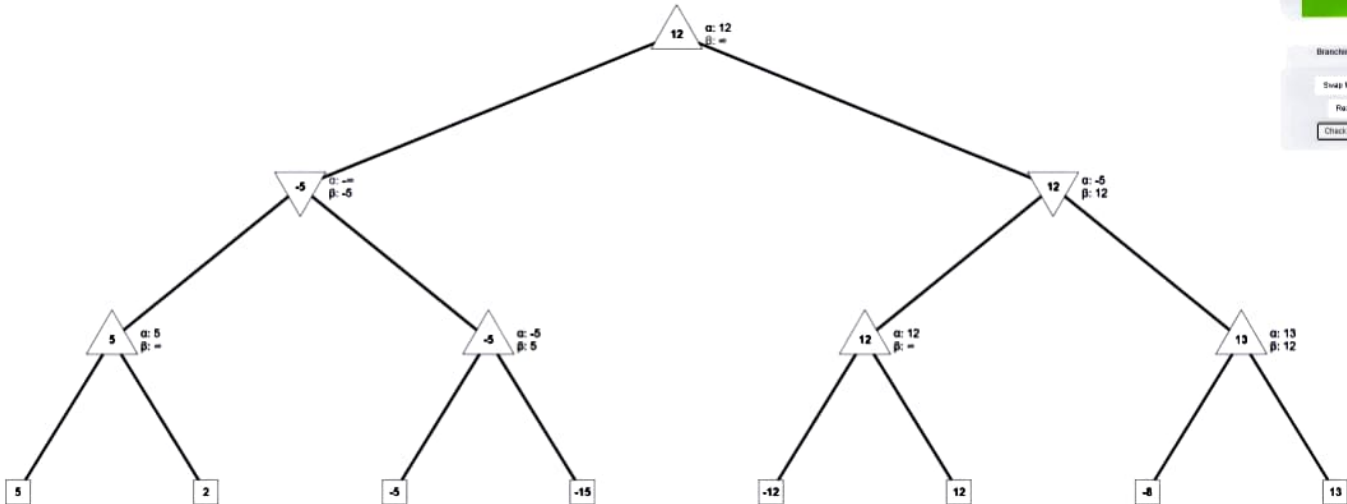
Beta (β) = The best (highest value)
Initial value of Beta is $+\infty$.

Rules and conditions :

- 1) The max player will only update the value of alpha.
- 2) The min player will only update the value of beta.
- 3) We will only pass the alpha, beta values to the child nodes.
- 4) Node values will be passed to upper nodes instead of values of alpha and beta.

Condition to prune : $\alpha \geq \beta$ or $\beta \leq \alpha$

When alpha is greater than or equal to beta



Depth - +

Branching Factor - +

Swap Min/Max Regenerate Tree

Reset Tree Show Solution

Check Answer **Correct**