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Alpha-beta pruning: Alpha beta pruning is a modified version of the min max algo. It is an aptimizat, technique for the min max algo.

- Alpha(x) - The best (hight value)
= Initial value of alpha is - oo

Beta (B) = The best (highest value)
= Initial value of Beta is too

- Rules & conditions:

The max player will only update the value of alpha only update the value of B.

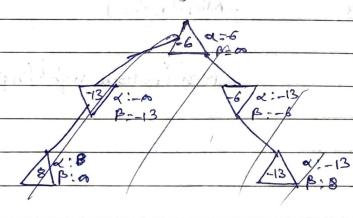
The only player will go only update the value of B.

We will only pass x, B values to the child nodes,

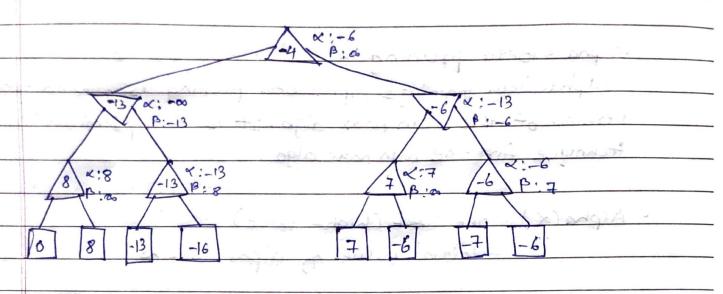
When values will be passed to upper nods instead of values of alpha and beta.

- Condition to prine: a 2b or b<a

- When alpha is greater than or equal to beta







- i) (X (-00,0)=0 Max (Bottom left) x (-00,8)=8
  - ×(0,8)=8

3)  $\propto (-\infty, -13) = -13$  -Max (Bottom left) (left node)  $\propto (-\infty, -18) = -16$ 

