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Class : BE-IT

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Subject : IS LAB

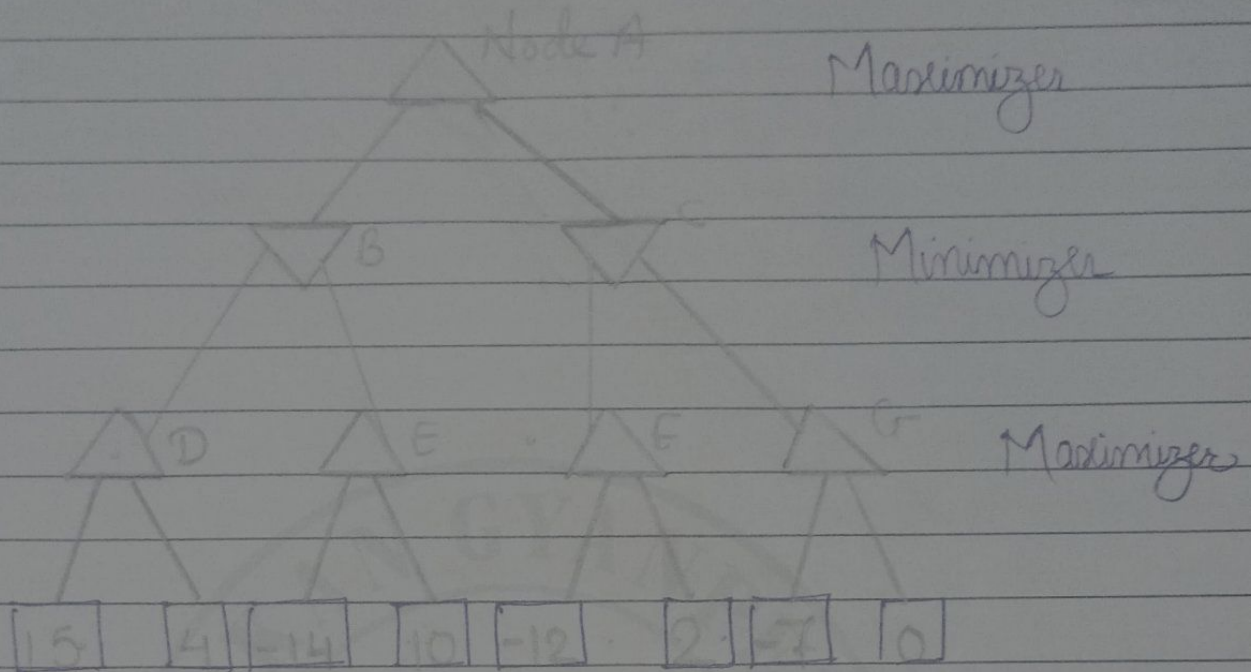
DOP

DOA

Remark

Sign

Shakur



Step 2:-

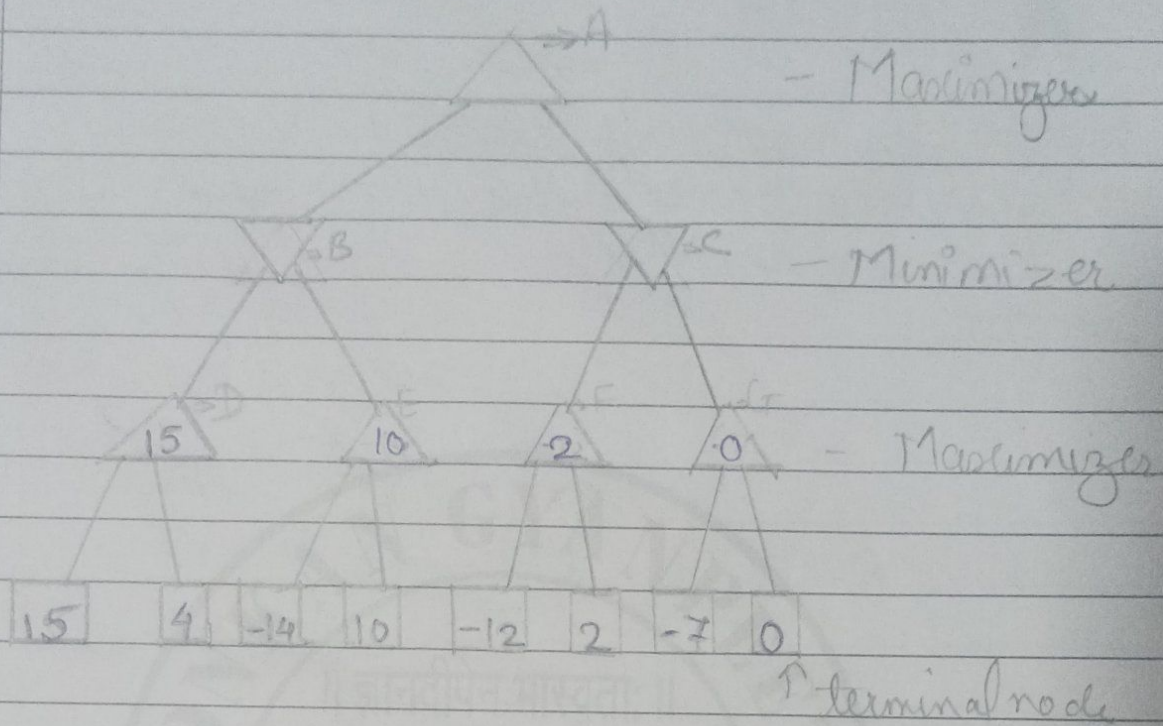
First we find the utilities values for maximizer, its initial value is $-\infty$ so we will compare each value in terminal state with initial value of maximizes and determines the higher nodes values. It will finds the maximum among all.

$$\text{For node D: } \max(15, -\infty) \Rightarrow \max(15, 4) = 15$$

$$E = \max(-14, -\infty) \Rightarrow \max(-14, 10) = 10$$

$$F = \max(-12, -\infty) \Rightarrow \max(-12, 2) = 2$$

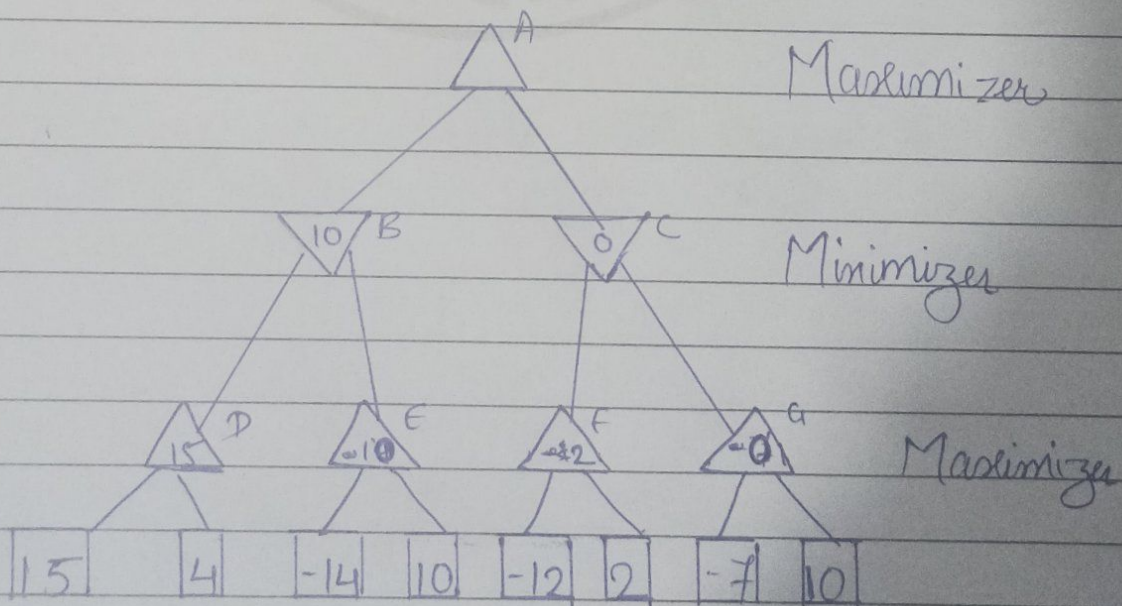
$$G = \max(-7, -\infty) \Rightarrow \max(-7, 0) = 0$$



Step 3:- In the next step, it's a turn for minimize. so it will compare all nodes value with two, and will find 3rd layer node value.

For node B - $\min(15, -14) = 10$

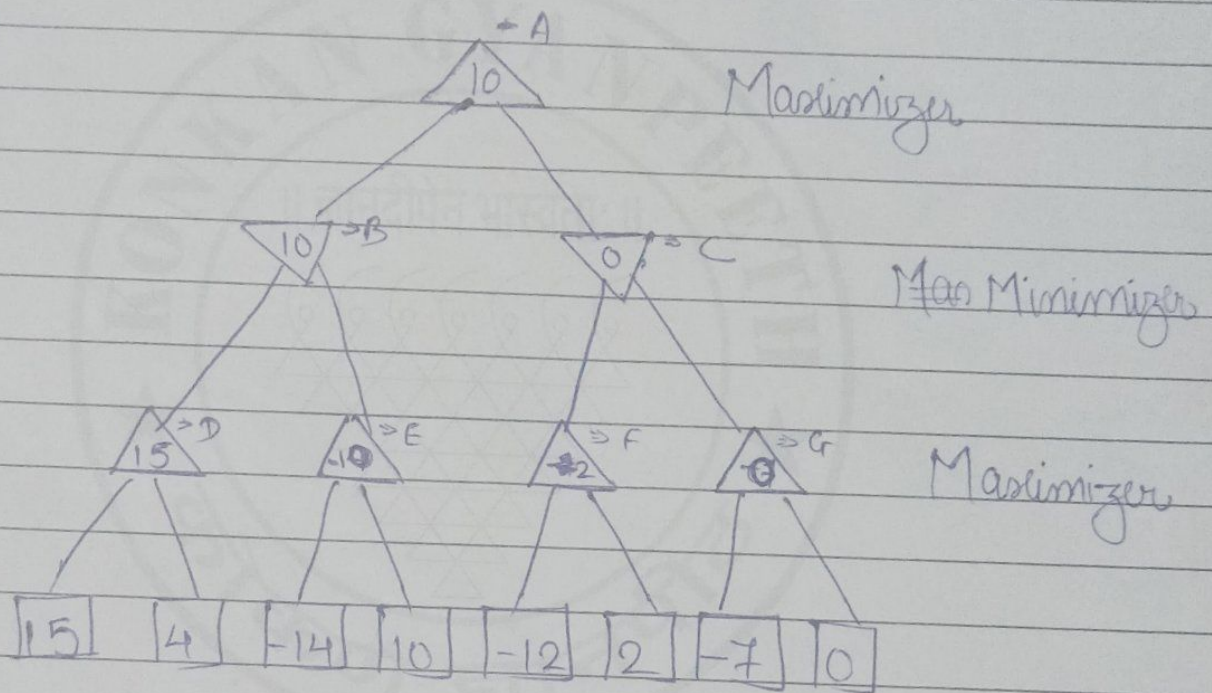
For node C - $\min(-12, 2) = 0$



Step 4:

Now its a turn to for maximizer and it will again choose the maximum of all node values and find the maximum value for all root node.

For node A: $\max(10, 0) = 10$



Hence, it was complete work for flow of minimax algorithm with two player game.