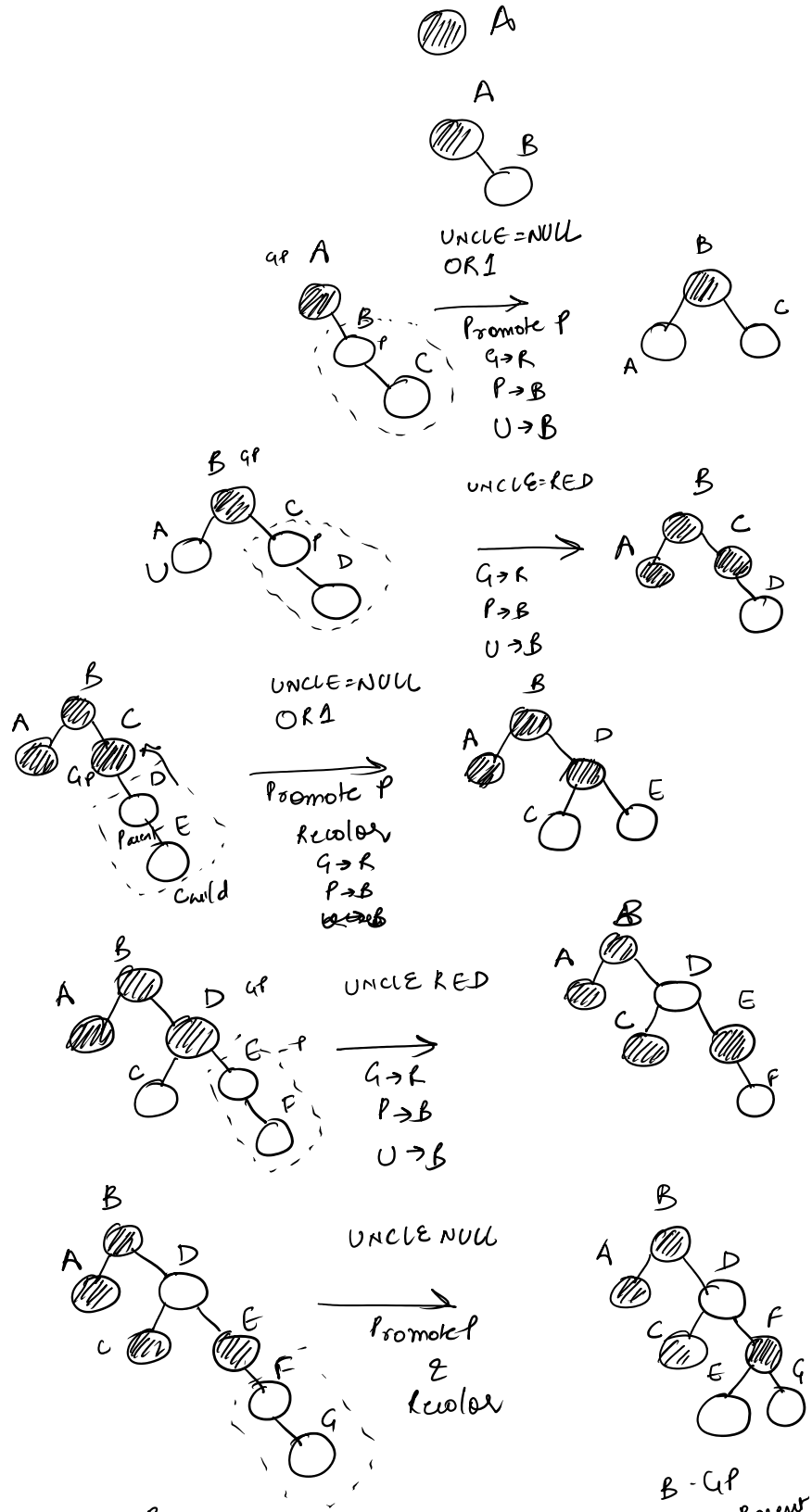
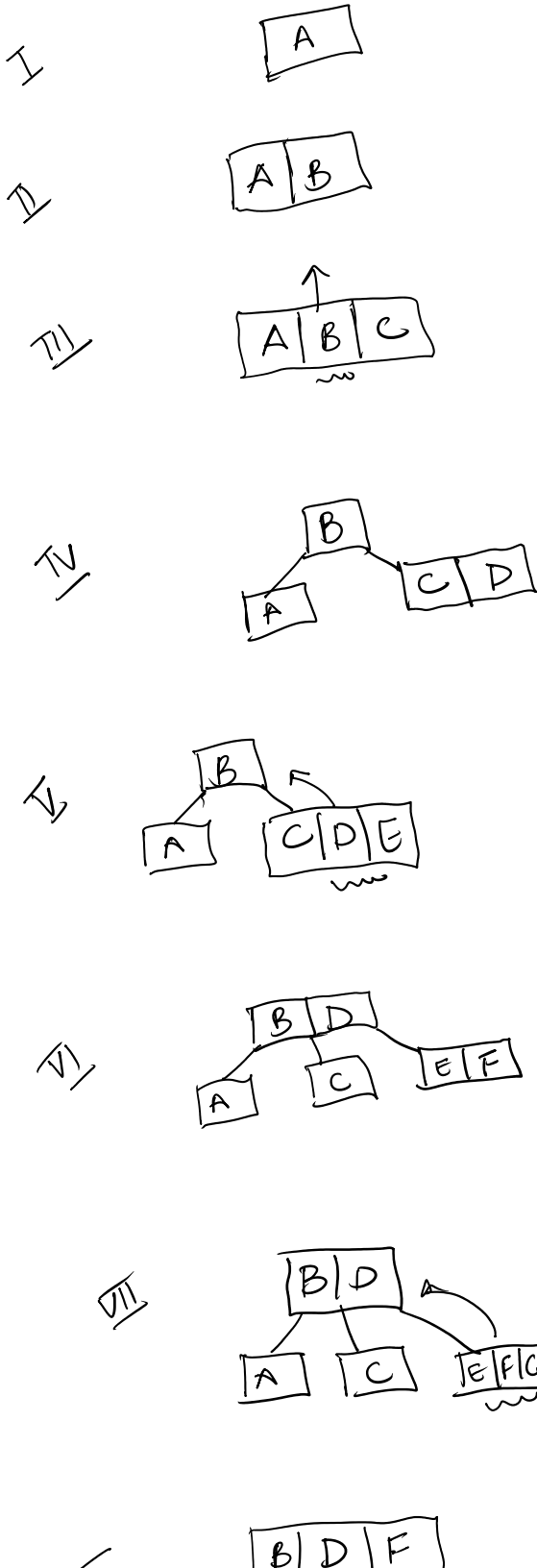
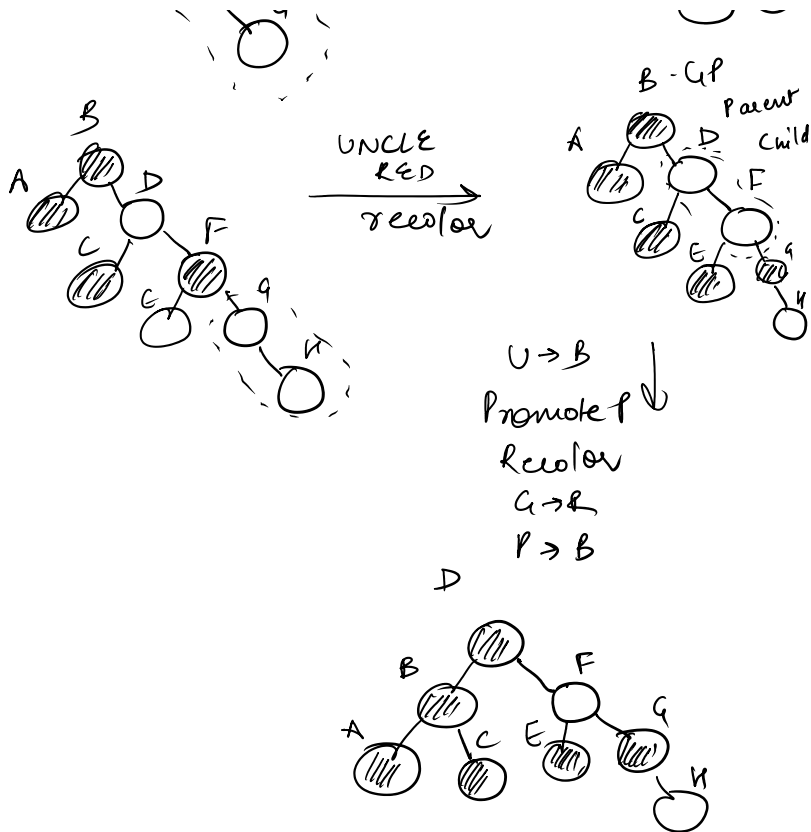
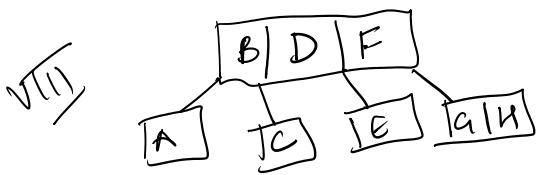


#9 A B C D E F G H  
2-3-4

Black  
OR Red

R-B Tree



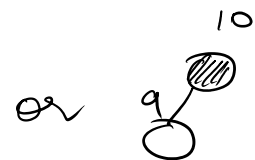
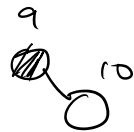
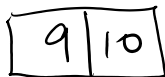


Possible to map any 2-3-4 tree into a R-B-Tree.

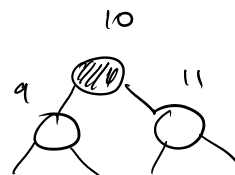
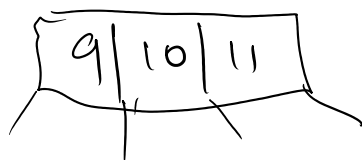
•<sub>1</sub> 2-node



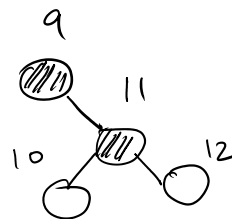
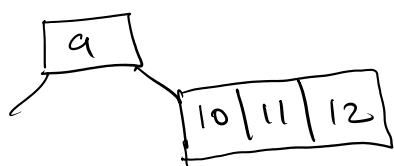
•<sub>2</sub> 3-node



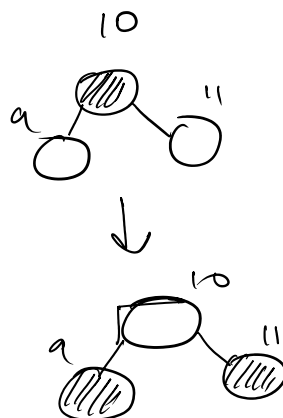
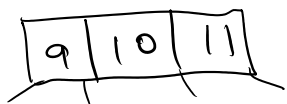
•<sub>3</sub> 4-node



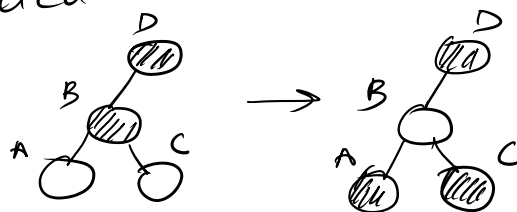
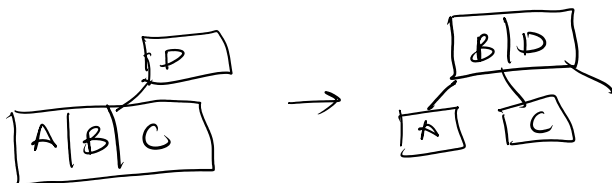
• 4 2-node is connected to 4-node



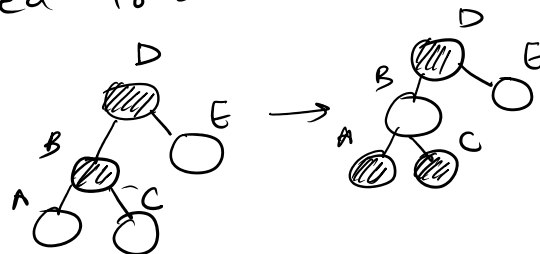
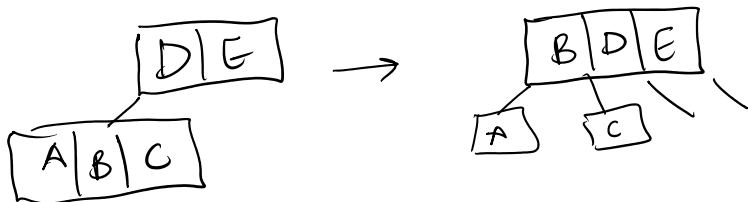
• 5 Splitting a 4-node



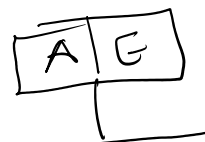
• 6 Split a 4-node connected to a 2-node

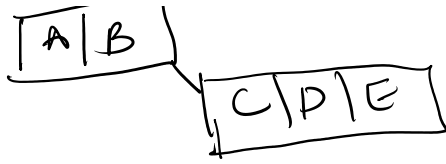


• 7 Split a 4-node connected to a 3-node



or





or

