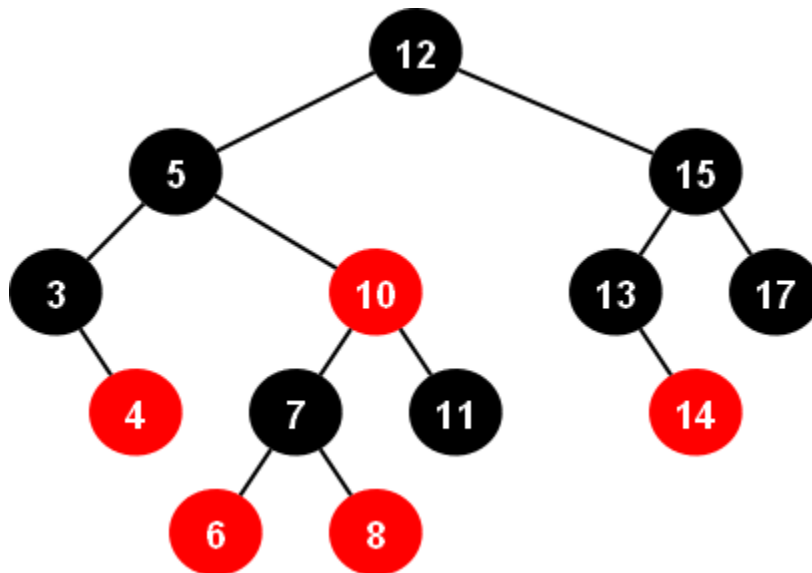


Lab W3D1

Problem 1

Consider the following initial configuration of a Red-Black Tree:



Draw the tree representation of the Red-Black tree after each of the following operations. Your operations are done in **sequence**, so your tree should have 17 values in it when you're done. Make sure to clearly indicate each of your final answers including rotations

Insert 1

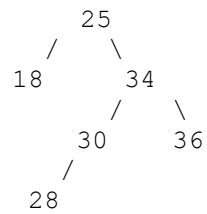
Insert 13.5

Insert 14.5

Insert 9

Problem 2

- (a) Given the following “Red-Black tree”, indicate the color of each node with letter R or B.



- (b) Insert the key 29.