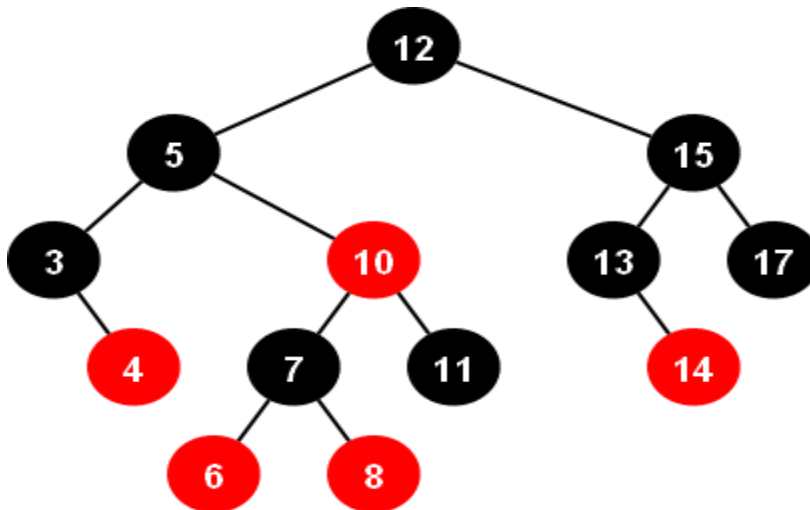


## Lab W3D1

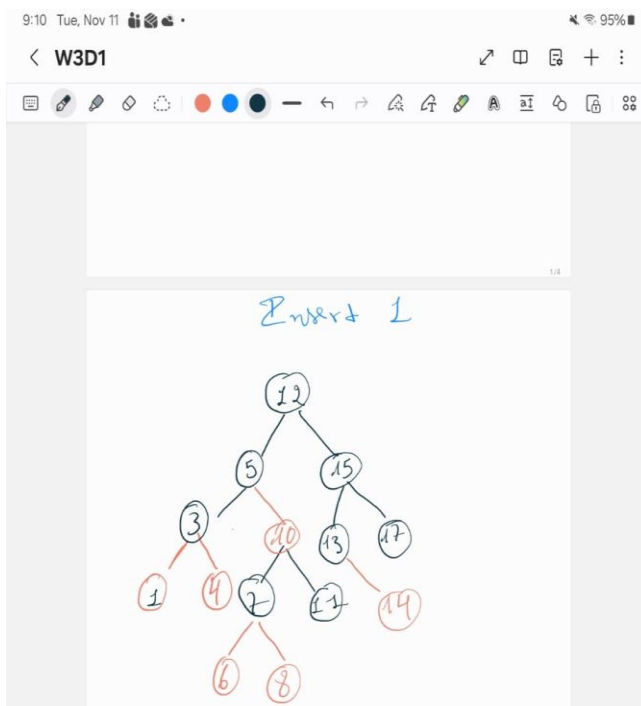
### Problem 1

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

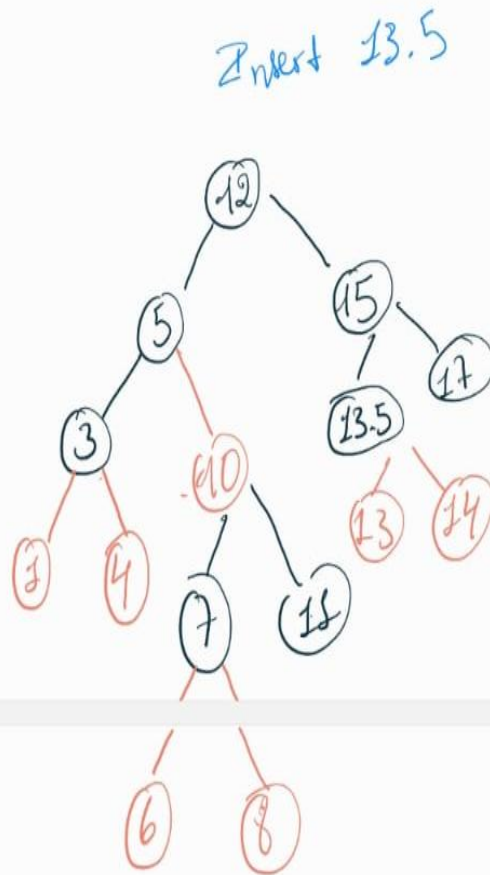


Draw the tree representation of the Red-Black tree after each of the following operations. Your operations are done in **sequence**, so your tree should have 17 values in it when you're done. Make sure to clearly indicate each of your final answers including rotations

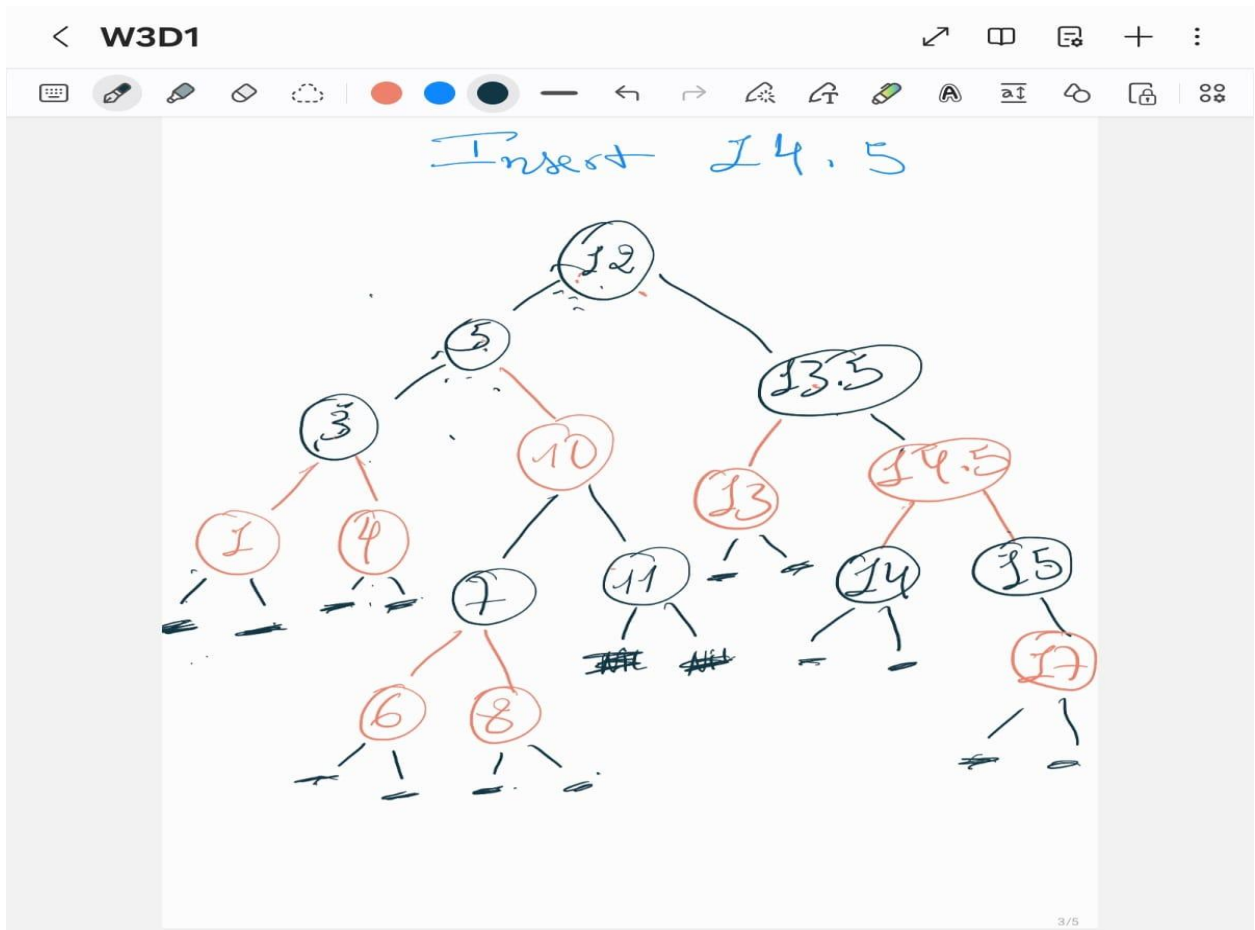
### Insert 1



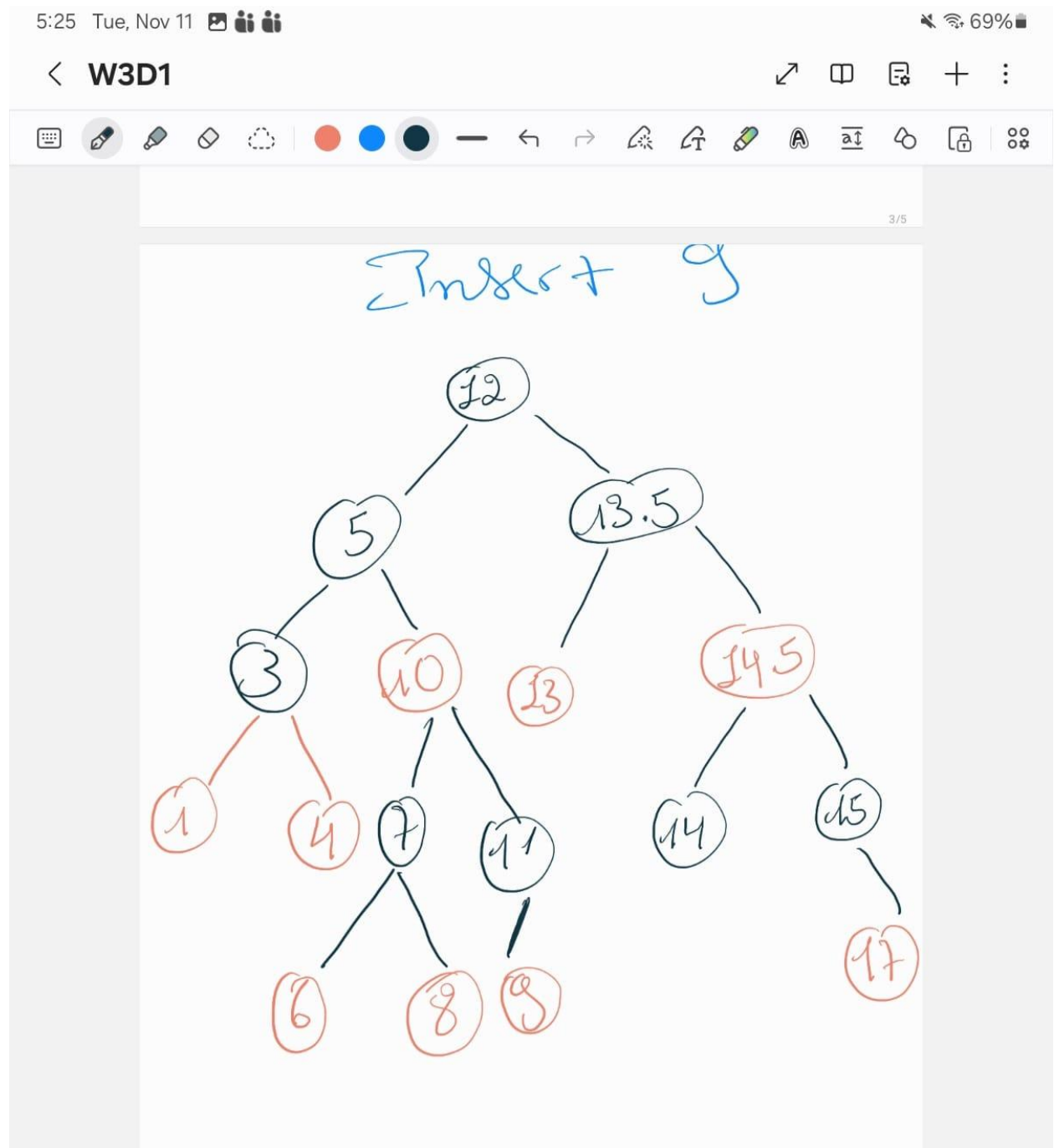
## Insert 13.5



## Insert 14.5



## Insert 9

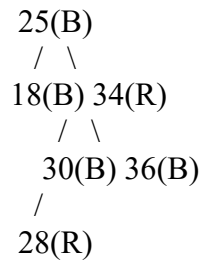


## Problem 2

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



- (b) Insert the key 29.

