Day 12 Recall Quiz

1. Which of the following statements is false ?
   1. Searching is better in AVL trees than Red Black Trees
   2. Each node has a balance factor for AVL trees
   3. The colour of each node in a Red-Black tree should be either red or black
   4. All the options seem to be true
2. Which of the following properties does a simple graph not hold?
   1. must be unweighted
   2. must not have multiple edges
   3. must not have loops
   4. must be connected
3. Which of them is not a property of a red black tree ?
   1. Every tree of the leaf is black
   2. the colour attribute of the root node is always black
   3. every node of the tree is coloured either red or black
   4. red black tree should be a circular linked list
4. Which of the following statements is false ?
   1. A graph can not have many edges & zero vertices
   2. A graph can not have zero edges & many vertices
   3. A graph can not have zero edges & zero vertices
   4. all the options seem to be false
5. Which feature is the distinguishing factor between graphs & trees ?
   1. a cycle can be formed in graph
   2. tree will always have directed edges
   3. Each node can have any number of edges in a graph
   4. all of the options are true