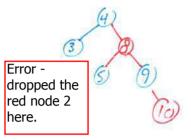
## CS-2852 - Dr. Durant - Quiz 8 Spring 2014, Week 10

(5 points) Illustrate the red-black tree resulting from adding the integers 4, 3, 9, 8, 5, 2, 10 to an
initially empty tree. Draw a new tree (instead of adding to your previous drawing) whenever a
rotation is needed.





2. (3 points) Would the arrangement of the above tree differ if it were an AVL tree instead? Why or why not?

best arsur -> 1/4. Inserting 10 creates a 1-3 impalance @ 4.

Otay answer > yes. The final tree wint AVL (1-3 intralance at 4.)

Correct answer: No, because it meets the AVL balance property at each step

3. (2 points) What two classes in the JCF have we discussed that use a (red-black) tree as their data structure? (Hint: They are named after the interfaces they implement.)

Tree Map < k, V>
Tree Set (E)