

## 3) (10 pts) ALG (AVL Trees)

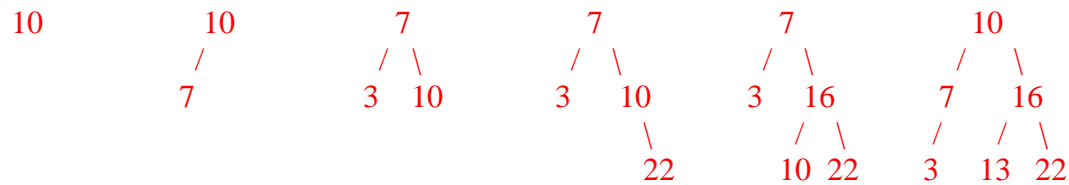
Show the result of inserting the following values into an initially empty AVL tree:

10, 7, 3, 22, 16, 13, 5, 18, 20 and 19.

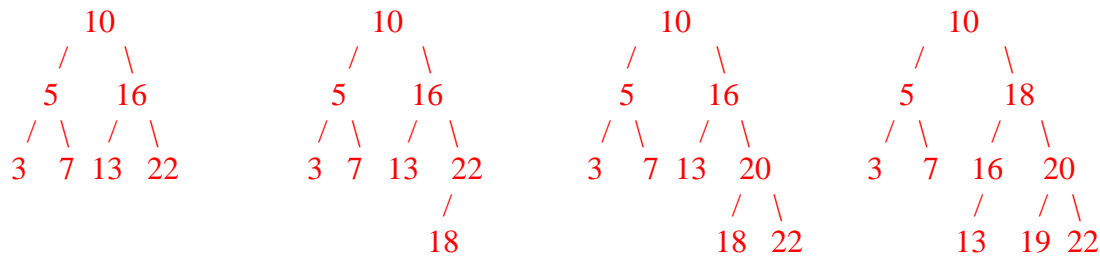
Draw a box around your result *after each insertion.*

The resulting trees are as follows:

Tree 1:      Tree 2:      Tree 3:      Tree 4:      Tree 5:      Tree 6:



Tree 7:      Tree 8:      Tree 9:      Tree 10:



**Grading:** 1 pt per tree, try to judge each insertion based on their previous tree (so they can get a point even if their answer doesn't match as long as it is correct based on their previous tree.)