3) ((10)	pts)	AL	G	(AV	ИL	Trees)
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(a) (8 pts) An AVL tree stores the grades of the class (in between 1 and 100 inclusive). Create an AVL tree by inserting the following values into an initially empty AVL Tree in the order given: 98, 87, 92, 81, 75, 68, and 100. Show the state of the tree <u>after</u> each insertion and draw a box around each of these results.

(b) (2 pts) What is the fewest and most number of comparisons for looking for a valid grade that is <u>not</u> within this tree?

Fewest number of comparisons = _____

Most number of comparisons = _____