

# **Review QUIZ 1 of 2**

## **Advanced BSTs – AVL Trees & Splay Trees**

(All questions are based on Lecture Notes. Go to the Lecture Notes and fully understand the topics!)

**Q1. Compare Delete-by-copying with Delete-by-merging in BST?**

[\[GO TO Lecture Note Slide #15, #19, #20, #29, #30, #34\]](#)

**Q2. Compare BST vs. Randomized Skip List?**

[\[GO TO Lecture Note Slide #11, #12, #30, #35\]](#)

**Q3. Why** Advanced Search Trees? **What** kinds of Advanced Search Trees?

[GO TO Lecture Note Slide #37, #38, #39, #40]

**Q4. AVL** trees?

[GO TO Lecture Note Slide #44, #45, #49, #58]

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### **Q5. AVL Tree Insert algorithm?**

[\[GO TO Lecture Note Slide #66, #70, #71, #76, #77, #86, #93\]](#)

### **Q6. Insert 20, 8, 6, 12, 10 and 50 into an empty AVL Tree.**

[\[GO TO Lecture Note Slide #98, #101, #102\]](#)

**Q7. Splay Tree? Splay Tree Insert algorithm?** Insert 8, 18, 6, 14 and 10 into an empty **Splay Tree**.

[GO TO Lecture Note Slide #134, #135, #137, #138, 151, #152]

**Q8. Compare AVL Tree vs Splay Tree vs Binary Search Tree?**

[GO TO Lecture Note Slide #157, #158, #161, #162]