

# Review QUIZ 1 of 1

## Advanced Linked Lists - Skip Lists & Self-Organizing Lists

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

**Q1. Why Advanced Lists? What kinds of Advanced Lists?**

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**Q2. Perfect Skip List?** Construct by inserting 19, 8, 12, 5, 17, 9 and 7 into an empty **perfect skip list**. Worst-case time of *Search, Insert & Delete*?

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**Q3. Practically Good (Randomized) Skip List?** Construct by inserting 19, 8, 12, 5, 17, 9 and 7 into an empty randomized probabilistic skip list. **Worst-case** time of *Search, Insert & Delete*? **Average-case** time of *Search, Insert & Delete*? Compare **Perfect Skip List vs Randomized Skip List**?

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**Q4. Self-Organizing Lists?** What kinds of self-organizing heuristics?

[\[GO TO Lecture Note Slide #46, #47, #48, #49, #51, #62\]](#)