1. Measuring Algorithm Complexity
   (a) Big “O”
   (b) Little “o”
   (c) Big “Θ”
   (d) Analyzing iterative code, e.g., nested loops
   (e) Time complexity for operations on data structures
2. Binary Search Trees
   (a) Breadth-First Traversal
   (b) Operations: search, insert, and delete
3. AVL Trees
   (a) Properties that define an AVL tree
   (b) Balancing a tree after an insert or a delete operation
4. 2-3 Trees
   (a) Properties that define a 2-3 tree
   (b) Insert in a 2-3 tree
5. Abstract data type – what is it?
6. Hash Tables
   (a) Hash functions
   (b) Hash tables
   (c) Resolving collisions
      i. Chaining
      ii. Open addressing
         A. Linear probing
         B. Pseudo-random probing
         C. Double hashing
7. Searching a collection of records by multiple keys
8. Graphs
   (a) Data structures representing graphs
   (b) Depth first search
   (c) Pre- and post-numbering
   (d) Topological sort