EXAM TOPICS (Lectures 0 through 7)
1. Java basics (you should know this as context for the rest of the course)
2. Object-oriented programming
   a. Class
   b. Object
   c. equals() vs ==
3. Interfaces and implementations
   a. ADT
   b. Interface
   c. Collections
   d. Implementation
   e. Arraylist example
4. Sets and maps
   a. Sets
      i. HashSet
      ii. TreeSet
   b. Maps
      i. HashMap
      ii. TreeMap
5. Hashing
   a. Conceptually, methods for HashSet and HashMap
   b. Collisions
   c. SUHA
6. Runtime efficiency
   a. String + operator vs string buffer example
7. Asymptotic (Big-O) analysis
   a. Big-O general rules
   b. Common examples for common Big-O values

Know the runtime complexity for method implementations.