44-542 Exam 2 review

* The material covered for this exam are:

1. Array Lists
2. Testing
3. Annotations
4. Main method
5. UML
6. Inheritance
7. Polymorphism
8. Abstract classes
9. Interfaces
10. Default methods
11. Casting
12. Exceptions
13. Sorting
14. Equals() method
15. Hashcode

* Use an Array List to accomplish a task - You should know how to use the methods of an Array List and be able to loop over an Array List.  You should be able to sort using the natural ordering of a class.
* Use an Interface – You should be able to create an Interface.  You should be able to create a class that implements an Interface.
* Use an Abstract class – You should be able to create an abstract class.  You should be able to create a concrete subclass.
* Use inheritance – You should be able to create a subclass of a given class.  You should know how to use super in a constructor and methods.  You should be able to override a method.
* Use exceptions – You should be able to write a method that throws an exception.  You should be able to write a try-catch block that handles an exception
* Tracing – You should be able to trace method calls in a class hierarchy.  You should be able to apply the concept of late-binding polymorphism during the trace. You should be able to trace the exceptions.
* You should be able to sort by implementing Comparable and Comparator interfaces.

Note: In order to get an "A" in exam 2, you need read every slide, practice worksheets and lab activities related to above mentioned topics.