



Week 4-5	<b>Arrays and Array Lists</b> Arrays Array Lists <b>Designing Classes</b> Cohesion and Couping Side Effects Scope Packages
Week 6	<b>Midterm Examination</b>
Week 7	<b>Interfaces and Polymorphism</b> Using Interfaces for Algorithm Reuse Polymorphism Inner Classes <b>Inheritance</b> Inheritance Hierachies Overriding Methods Subclass Construction
Week 8	<b>Input/Output And Exception Handling</b> Reading and Writing Text Files Reading Text Input Throwing Exceptions <b>Recursion</b> Triangle Numbers Permutations Mutual Recursions
Week 9-10	<b>Sorting and Searching</b> Selection Sort Analyzing the Performance Searching <b>An Introduction to Data Structures</b> Using Linked Lists Abstract Data Types Stacks and Queues
Week 11	<b>Advanced Data Structures</b> Sets Maps Hash Tables Binary Search Tree Binary Tree Traversal