Contents

University Undergraduate Projects

Page	I

- 1 File I/O | Object Creation and Manipulation | Java
 - 1.1 Class File | Ship Objects
 - 1.2 Driver File | Run The Program
- 2 Bags | Arrays and Linked Lists | Java
 - 2.1 Interface | Bag Interface
 - 2.2 Class File | Bag Using Arrays
 - 2.3 Class File | Bag Using Linked Lists
- 3 Resizable Bags | Arrays | Java
 - 3.1 Interface | Resizable Bag Interface
 - 3.2 Class File | Resizable Bag Using Arrays
- 4 Lists | Arrays and Linked Lists | Java
 - 4.1 Interface | List Interface
 - 4.2 Class File | Array Based List
 - 4.3 Class File | Linked Based List

Page II

- 1 Algorithm | Heap Sort | Java
 - 1.1 Heap Sort | Overall Sorting Method

- 1.2 Helper Methods | Parent, Left, Right
- 1.3 Build Max Heap | Array Conversion To Max Heap
- 1.4 Max Heapify | Node/Element Movement

2 Linked Lists | Special Linked Lists | Java

- 2.1 Interface | List Interface
- 2.2 Class File | Double Linked Lists
- 2.3 Class File | Circular Linked Lists
- 2.4 Class File | Circular Double Linked Lists

3 Recursive Methods | Examples | Java

- 3.1 Example | Basic Recursive Method
- 3.2 Recursive Object Manipulation | Towers of Hanoi *.zip download only

Page III

1 Linked Lists | Recursive Linked Lists | Java

- 1.2 Interface File | List Interface
- 1.3 Class File | Double Linked List
- 1.4 Class File | Circular Linked List
- 1.5 Class File | Circular Double Linked List