

CSE2003 Data Structures and Algorithms

Assessment 1

1. Linear Search and Binary Search
 - a. Menu Driven
 - b. Presence of Duplicates
 - c. Last and First Occurrence
2. Arrays and Stack Interfaces
 - a. Arrays
 - i. Insertion
 1. At 'mth' position
 - ii. Deletion
 1. At 'mth' position
 - iii. Display
 - b. Stack
 - i. Push
 - ii. Pop
 - iii. isFull
 - iv. isEmpty
 - v. Peek
 - vi. Display
3. Applications of Stack
 - a. Infix to Postfix
 - b. Evaluation of Postfix
 - c. Checking for Balanced Parenthesis
4. Queue
 - a. Enqueue
 - b. Dequeue
 - c. isFull
 - d. isEmpty
 - e. Peek
 - f. Display

5. Circular Queue

- a. Enqueue
- b. Dequeue
- c. isFull
- d. isEmpty
- e. Peek
- f. Display

6. Double Ended Queue

- 1. InsertInFront
- 2. InsertInBack
- 3. DeleteInFront
- 4. DeleteInBack
- 5. getFront
- 6. getRear
- 7. isEmpty
- 8. isFull