

Midterm Test #2

- Date:04/22/25
 - Define functions
 - Output for a program
 - Concept

Midterm Test #2

- Composition: Object as Member of Classes
- Friend functions
- The Use of Friend Functions
- Friend Classes
- What is Template?
 - Function Template.
 - Class Template
- Stack
 - Push, pop, isEmpty, isFull, Top
- Queue
 - enqueue, dequeue, emptyQueue, fullQueue, frontQueue

Midterm Test #2

- Static Member in a class
 - Static variables
 - Static Functions
- Recursion
 - Memory allocation
 - Solving problem with Recursion
 - Recursion Examples
 - Factorial
 - Fibonacci number
 - Sum of Range
 - Greatest Common Divisor
 - Binary Search

Midterm Test #2

- Operator Overloading
 - As a member function
 - As a Friend function
- Graph
- Copy Constructor
- Tree
- Binary Tree
- Binary Search Tree

Midterm Test #2

- Binary Search Tree
 - Binary Search Tree Property
 - Binary Search Tree Operations
 - Inorder walk
 - Preorder walk
 - Postorder walk
 - Search Tree
 - Insert a element to the Tree
 - Delete a element form the Tree

Midterm Test #2

- Inheritance
 - Type of Inheritance
 - Syntax for Derived Class
 - Overriding Member Function in the Base Class
 - Using Member Functions
 - Casting Base-Class Pointers to Derived-class pointer
 - Using constructor and destructors in derived classes