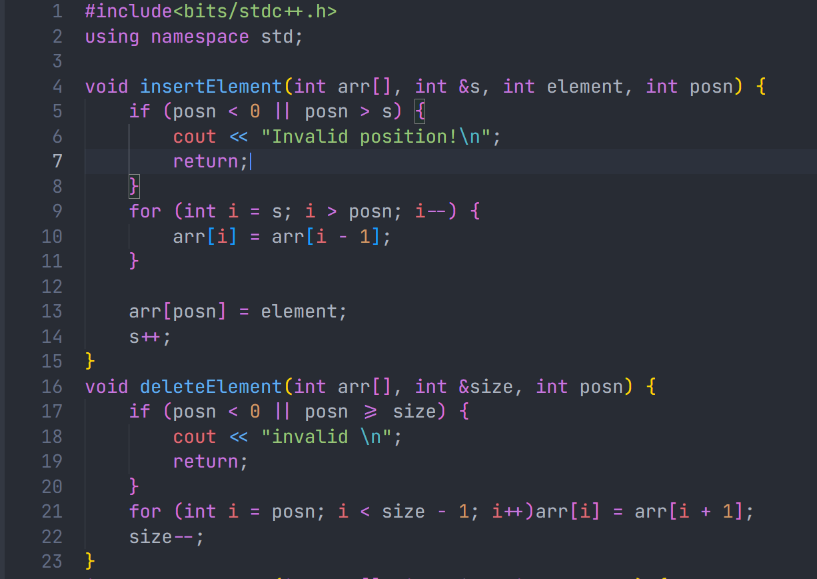
PRACTICALS

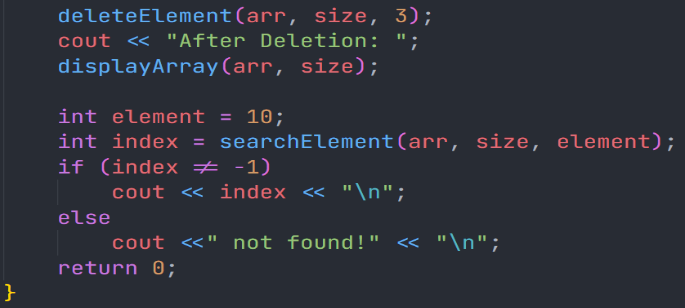
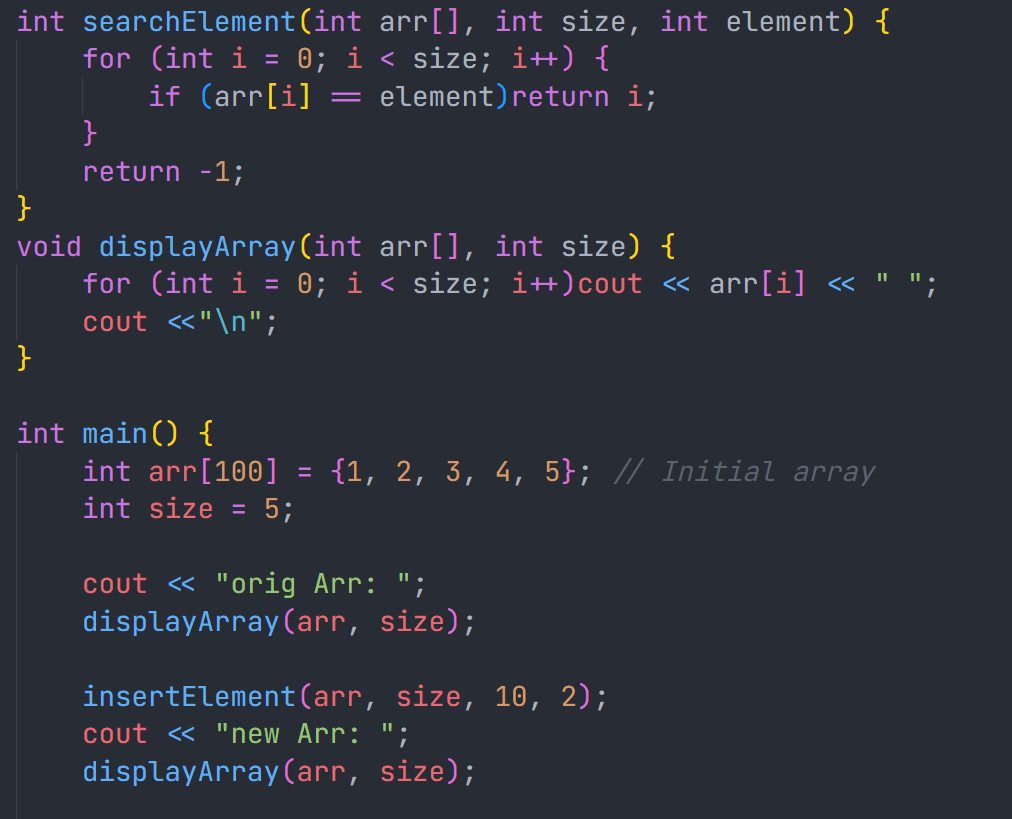
SUBJECT : DATA STRUCTURE ( COCSC202)

Q1. Write a program to insert one element in an array and delete an element from an array.

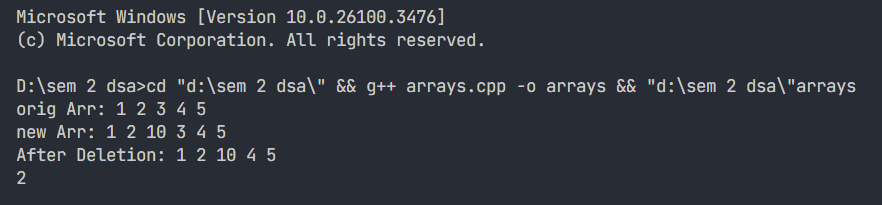
Write a program to search for a number in an array.

Code:





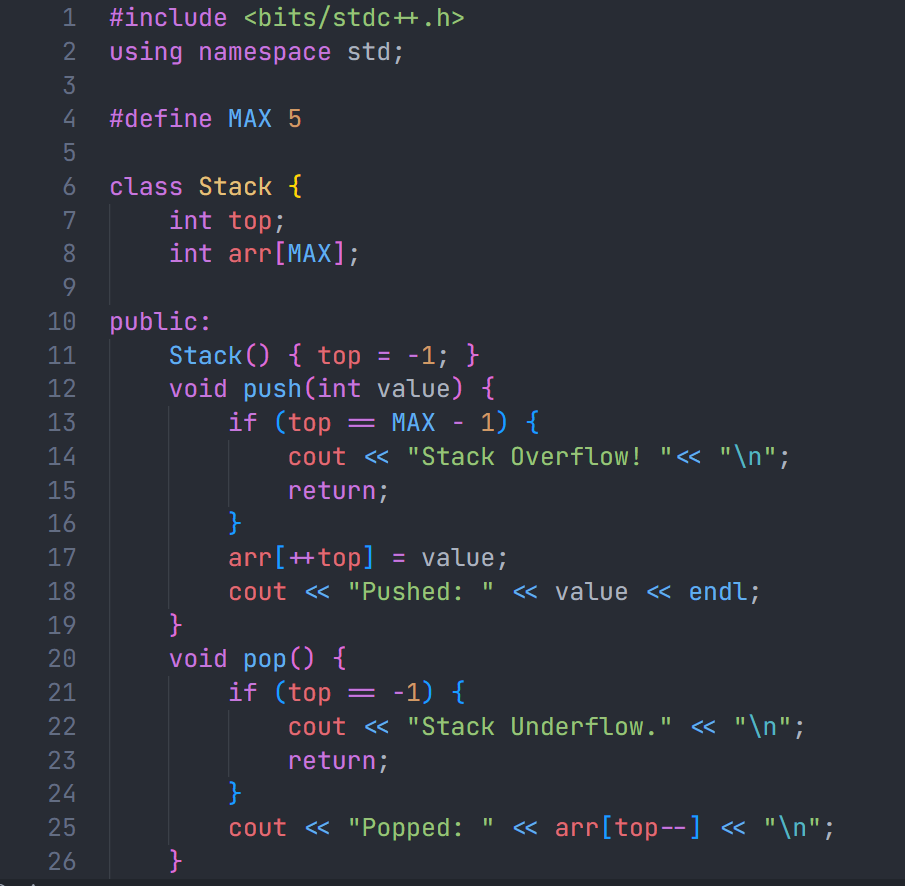
Output:

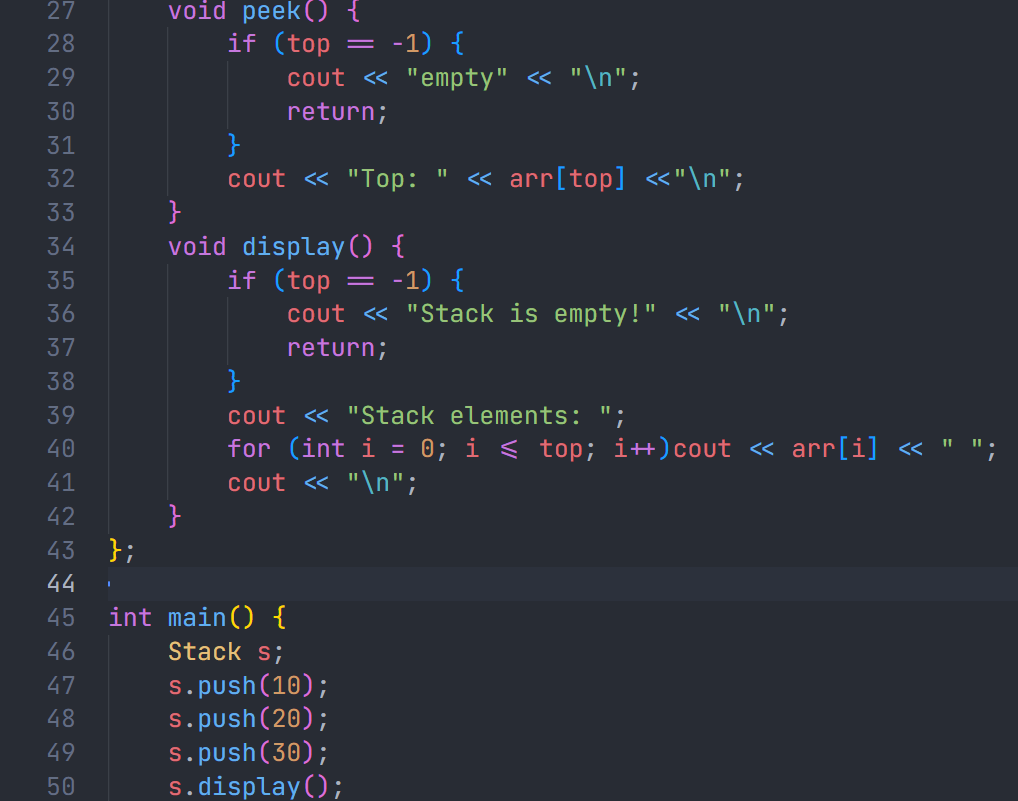


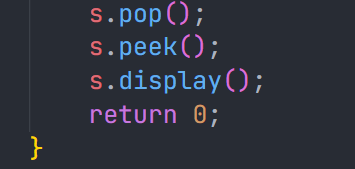
Topic : Stacks

Q2. Write a program to implement a various operations of stack using static and binary data structure.

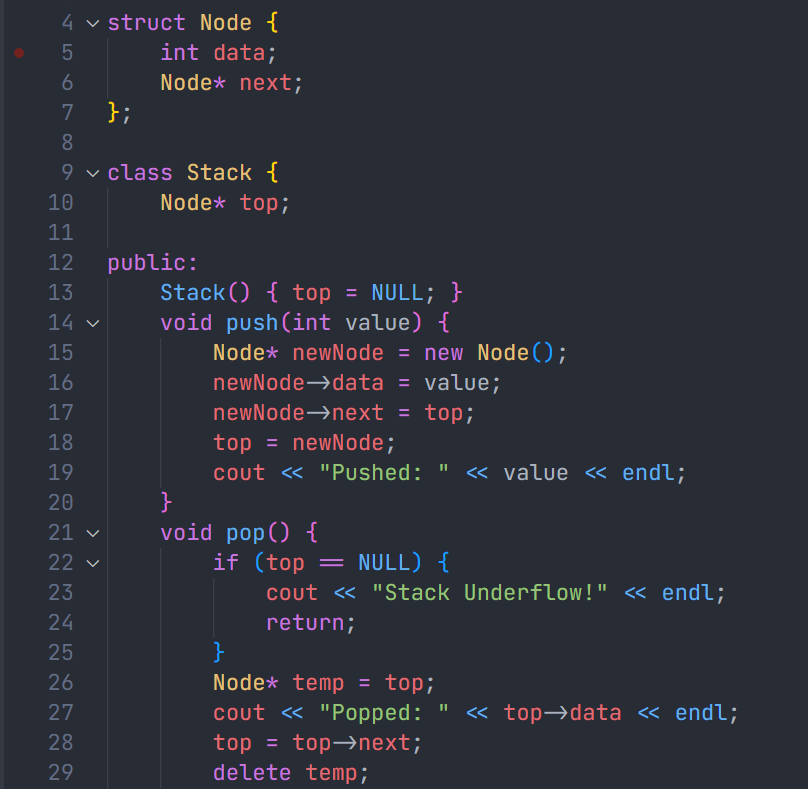
Code:

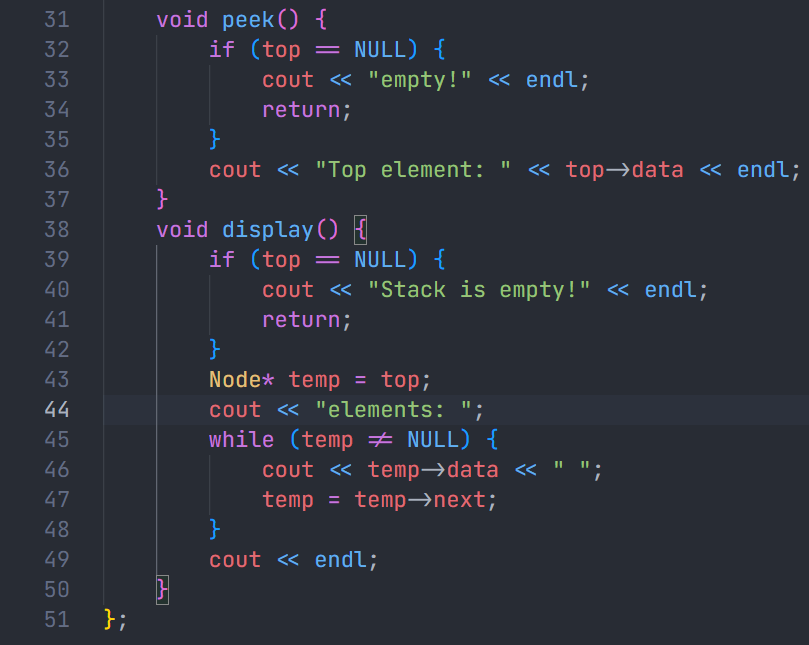




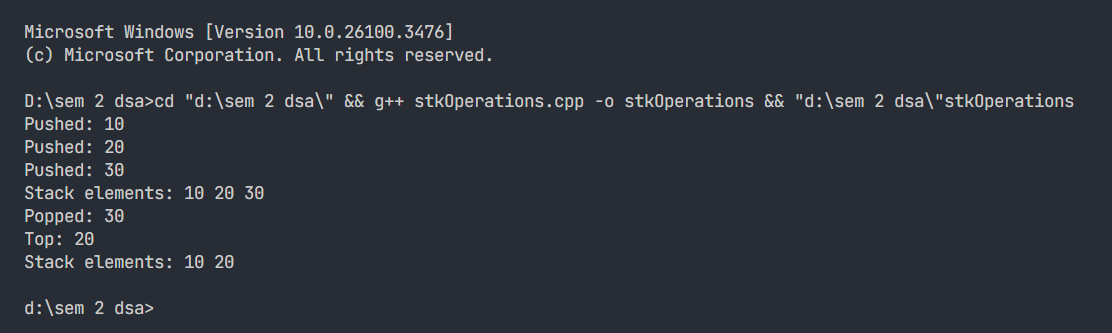


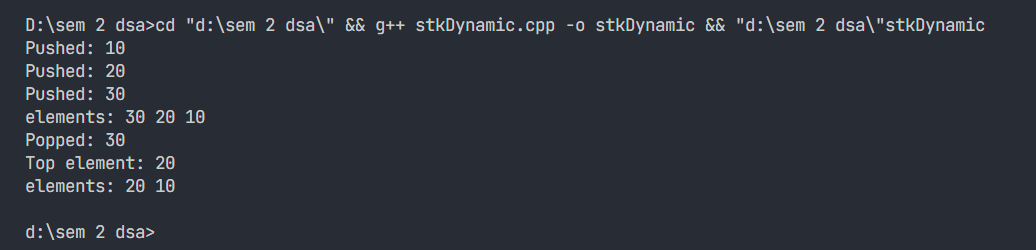
Dynamic Representation Using Linked Lists





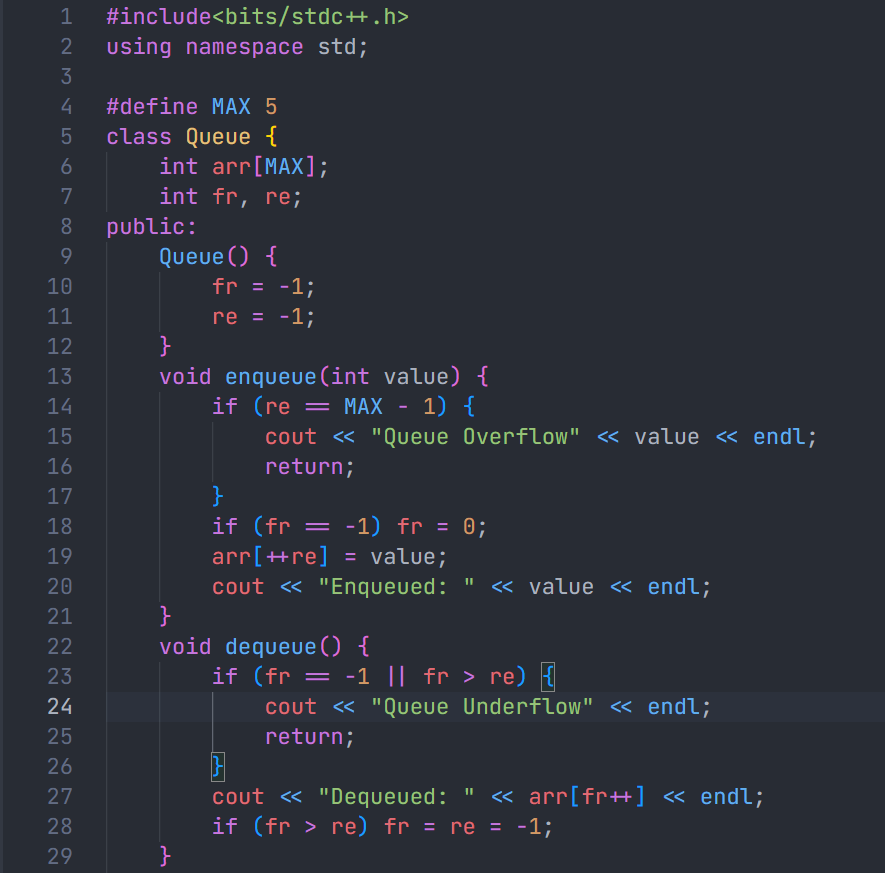
Output:

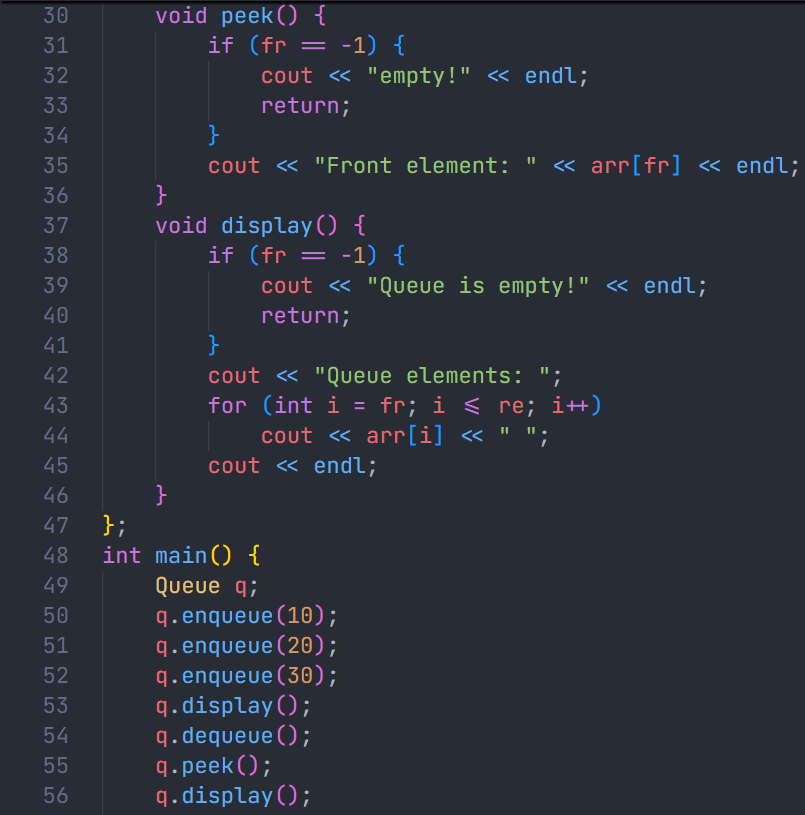




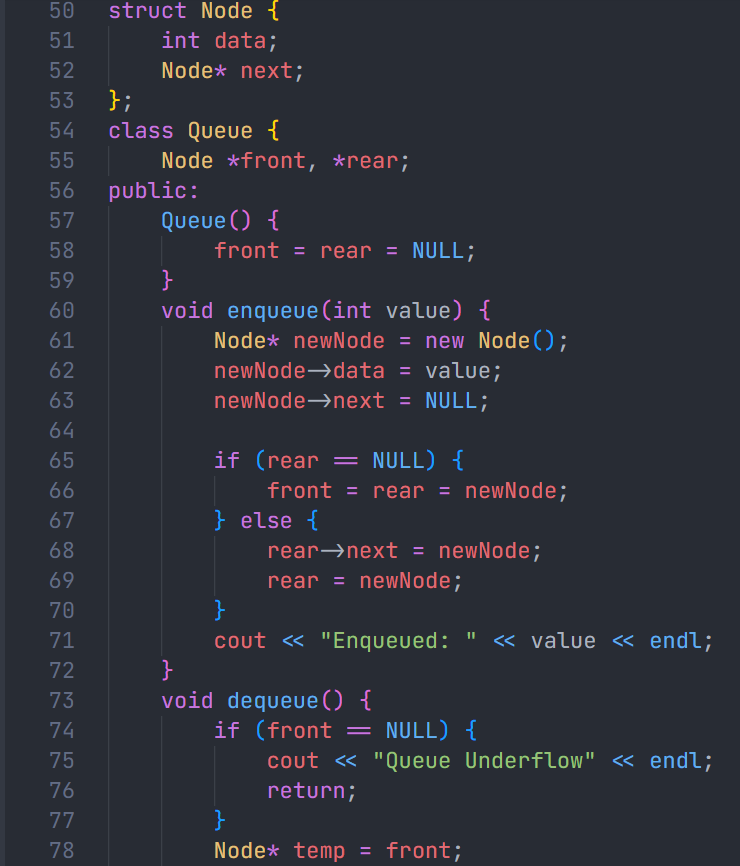
Q3. Write a program to implement a various operations of queue using static and binary data structure.

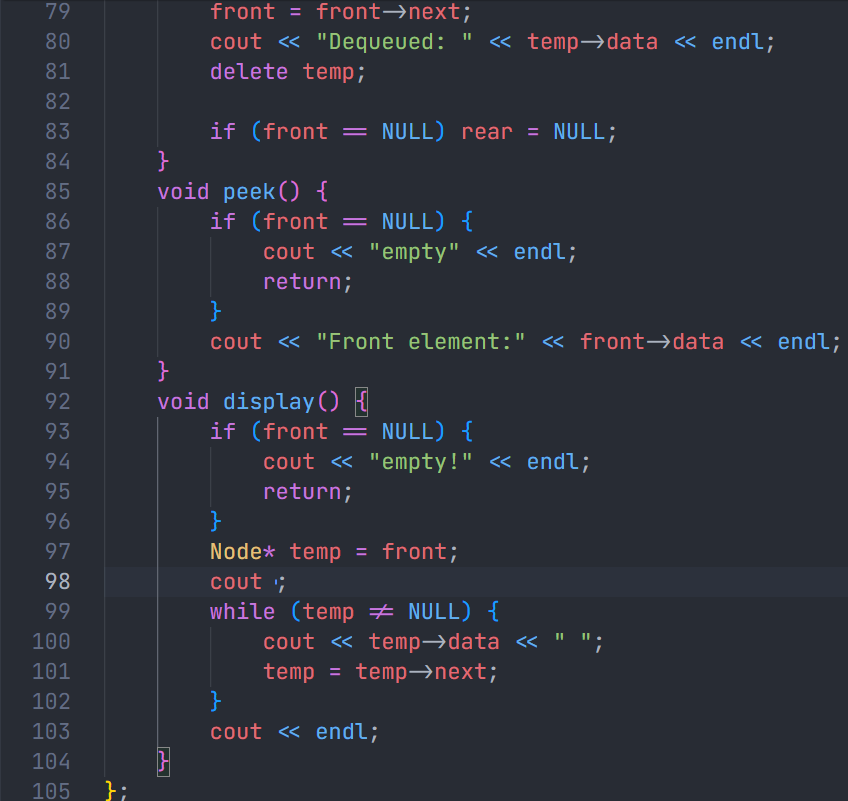
Code:



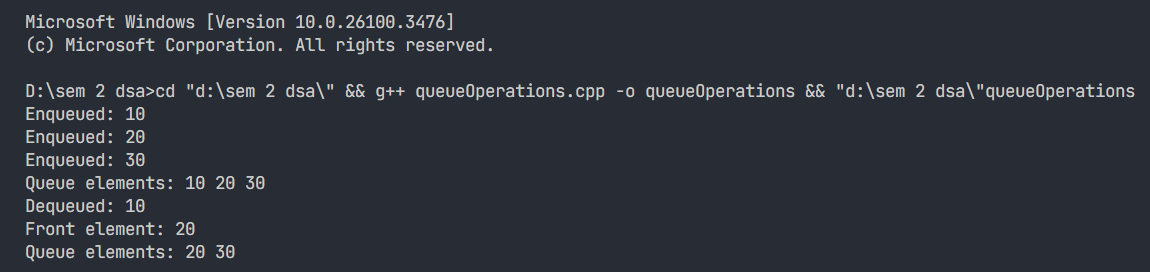


Dynamic Representation





Output:

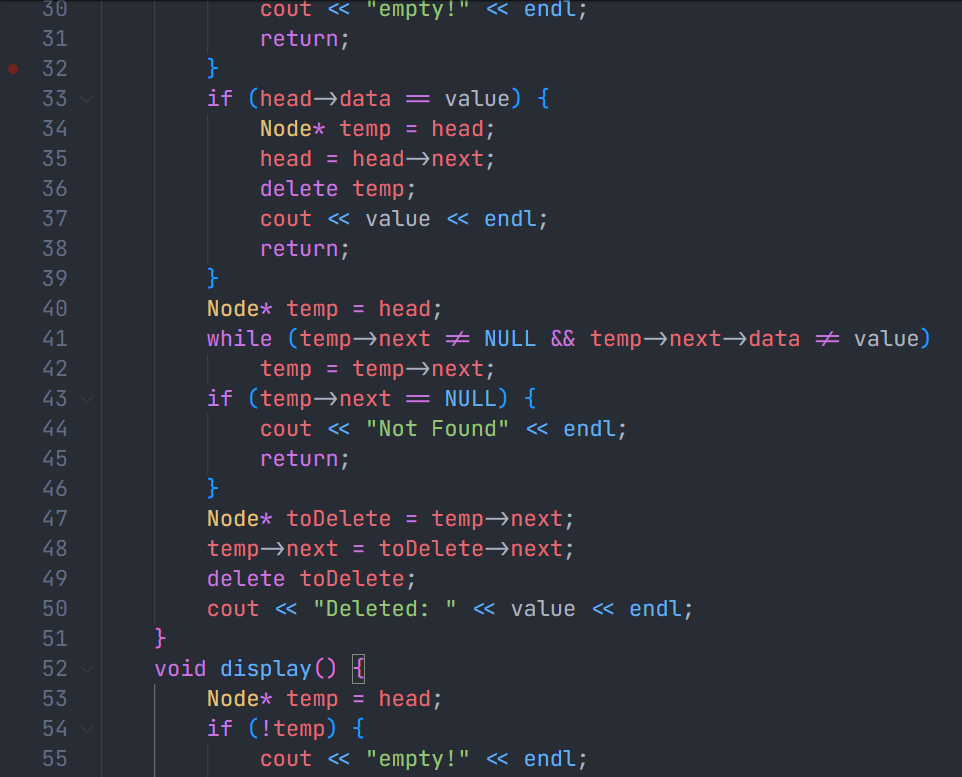


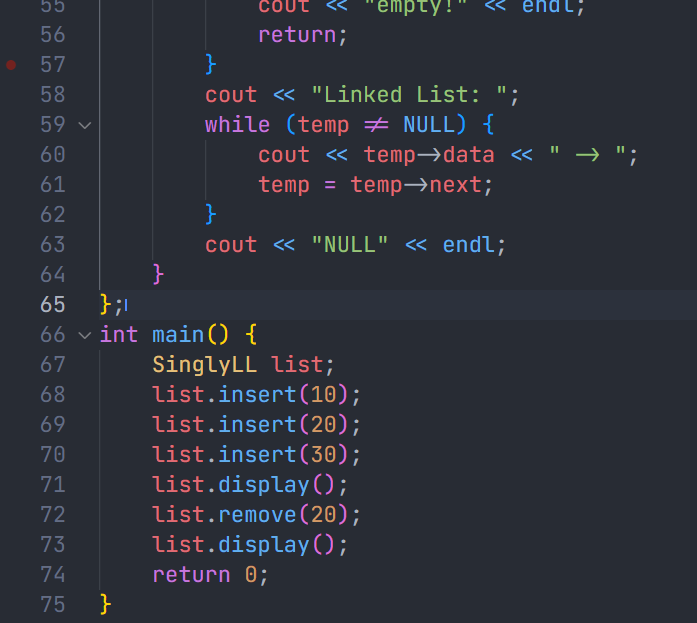
Linked Lists

Q4. Write a program to implement a linked list i.e., singly linked list, doubly linked list. Write a program to insert a node in a linked list and delete a node from a linked list

Code:

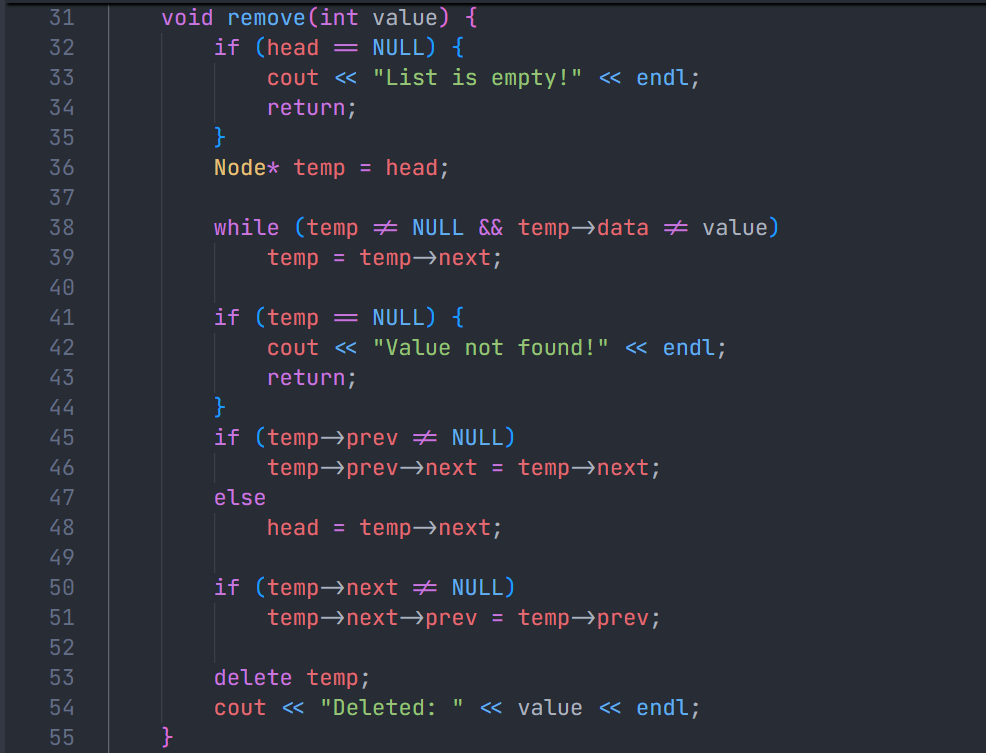


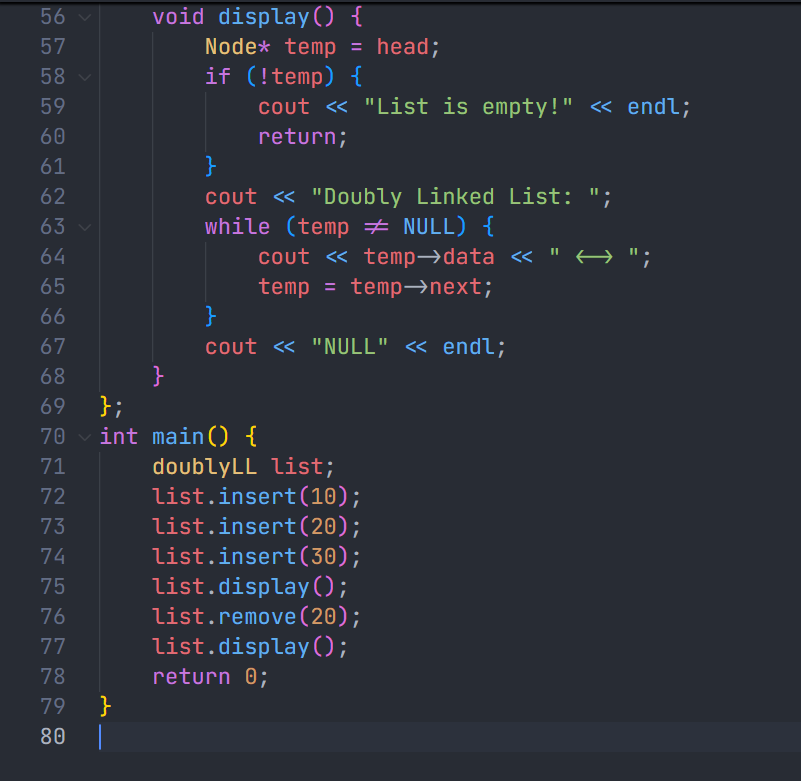




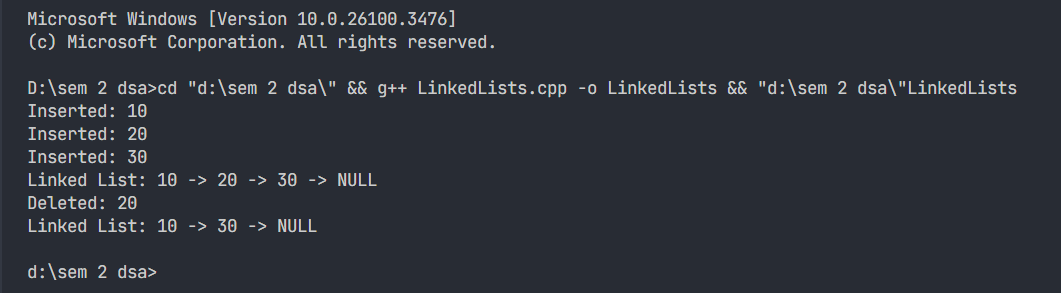
Doubly Linked Lists

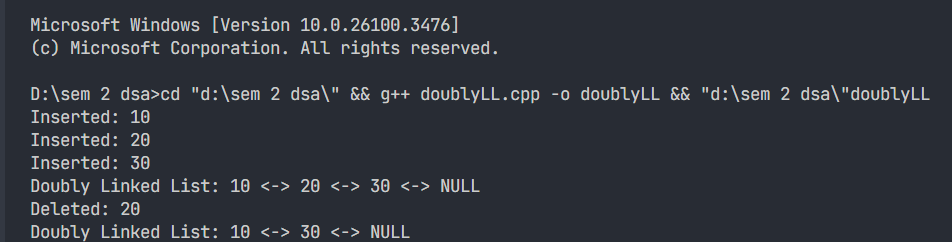




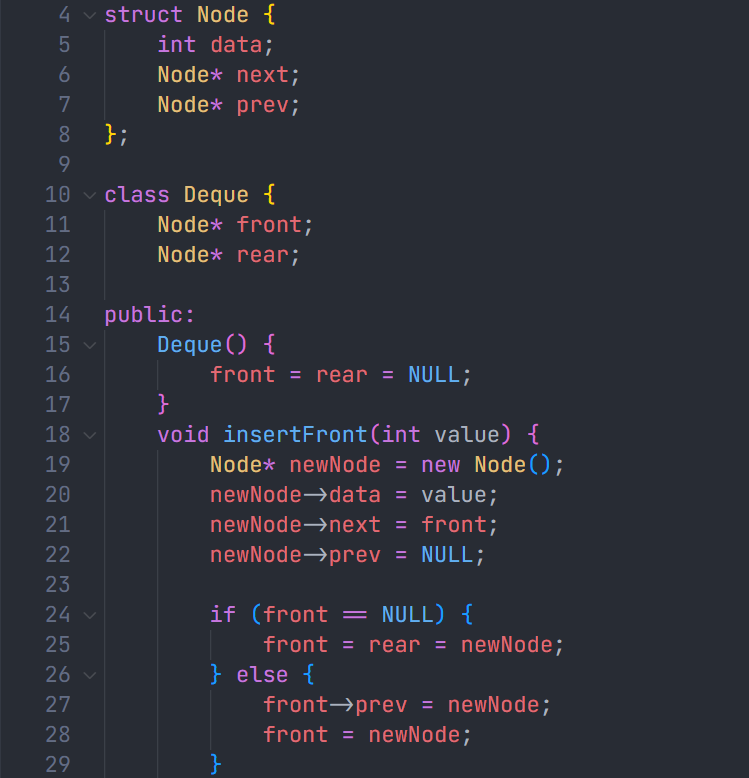


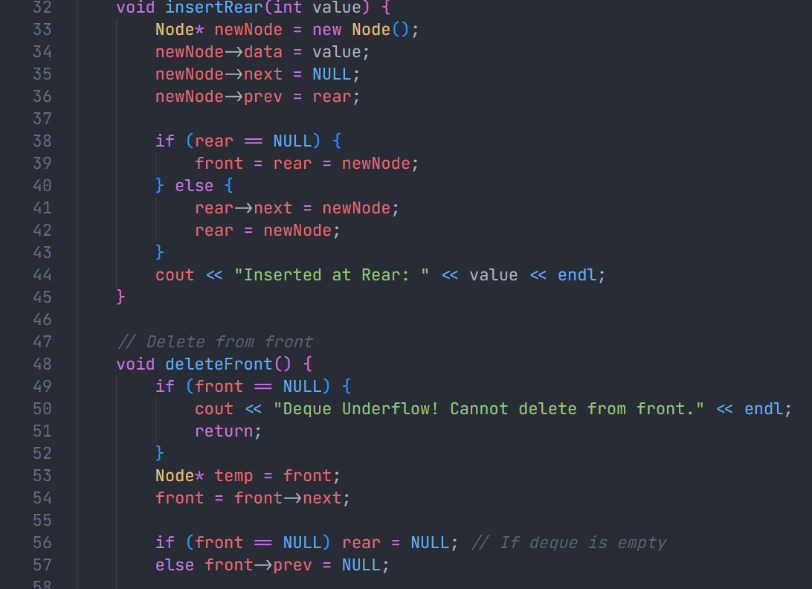
Output:





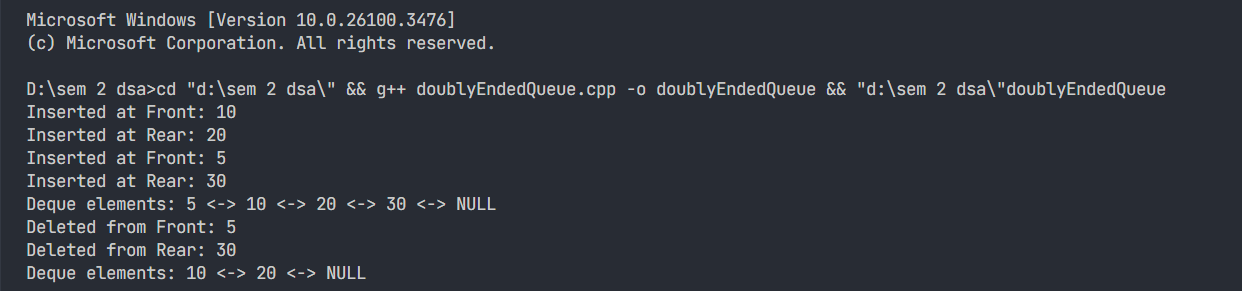
Q5. Write a program to implement a double-ended queue using a linked list

Code:



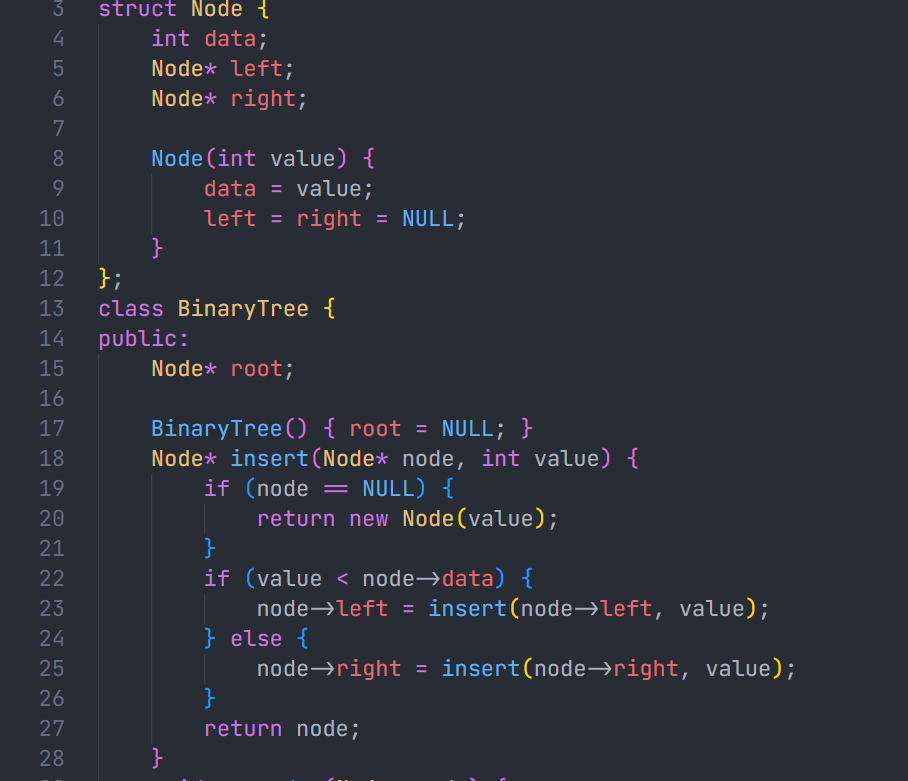


Output:

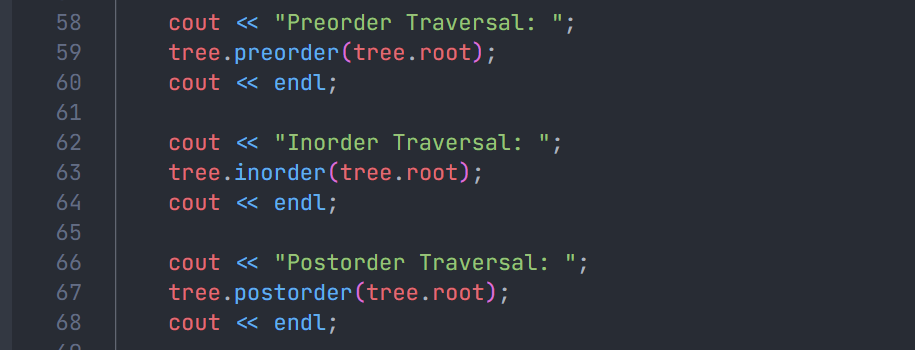


Q6. Write a program to construct a binary tree and display its preorder, inorder and postorder traversals.

Code:







Output:

