Ahmed Ayman Elkhodary

900213472

This program contains a struct "Node" and a class "LinkedList." The Node struct contains the value, counter, and a pointer to the next node. The LinkedList class has three member functions, addNode, NodeDelete, printList, and sumNodes. The addNode function inputs in two integers, creates a new Node with the given values, and adds it to the end of the linked list. The NodeDelete function takes in an integer value, deletes the node with that value from the linked list, and updates the pointer of the previous node to the next node. The printList function iterates through the linked list and prints out each node's value and count. The sumNodes function iterates through the linked list and calculates the sum of all nodes' value multiplied by their count.

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The main function of the program takes user input for the number of integers, the integers themselves, and the first and second values to be inserted if the first value is found in the vector. The program then iterates through the vector, inserts the second value after the first value if it is found, and creates a linked list with each unique value and its count. Finally, the program prints out the linked list and the sum of all nodes.

This code shows an implementation of a basic **singly** linkedlist in C++ , where each node has a pointer to the next node in the list. The linkedlist class has methods to add a node to the end of the list, delete a node with a specific value, print the list and calculate the sum of all nodes.

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Sample output:

A screenshot of a computer program

Description automatically generated with medium confidence