Lab 05 - Nodes Problems

Direction: Submit typed work in the Labs directory of your github repositor or dropbox, or upload to the google classroom assignment. Each part should be a separate files. The files named should be "lab5A.cpp" and "lab5B.cpp" respectively.

Part A: In class

Your objective is to write the definition of the function Minimum() whose header is

double Minimum(Node<double>* root)

It returns the minimum value from the singly linked list referenced by *root*. If *root* is referencing an empty list, the function returns 0.

Part B: Take home

Your objective is to write the definition of the following functions

 \square the function MidAppend() whose header is

template <typename T>
void MidAppend(Node<T>*& data,Node<T>* addon)

It appends the linked list referenced by addon to the linked list referenced by data starting after the middle node of data. For instances, if data = [a, b, c, d, e] and addon = [f, g, h, i, j]; then after the call of the function, data = [a, b, f, g, h, i, j, c, d, e].

☐ the function NotEqual() whose header is

bool NotEqual(Node<bool>* op1,Node<bool>* op2)

Given that op1 and op2 references doubly linked lists that represent binary numbers, the function returns true if the list referenced by op1 is not equal the list referenced by op2. For instances, if op1 = [0,0,1,1,0] and op2 = [1,0,0,1], the function will return true. Do not assume that the lists are the same size.