Data structures and Algorithms LAB – BSDSF21

(Morning and Afternoon)

Lab 05 – 31-01-2023

The code related to the linked nodes as discussed in class is provided here for your reference. You have to complete the following task related to the linked nodes. **10 each**

1. To return the **sum** of the values in the nodes in a set of linked nodes.
2. To return the **count** of the nodes in a set of linked nodes.
3. To correct the **removeNode**, so that it may also remove first node of linked set correctly.
4. Somehow make **addFrontNode** workable.

The recursion in the linked node's structure is implementable in a way that in the recursive calls we send the reference of the linked node(s), and if/when the reference received is None, it is assumed that no more recursive calls are required. Think multiple time on the previous sentence.

Now make a copy of the python code and modify the following functions to work recursively. **10 each**

5. printLinkedNodes
6. addBackNode
7. removeNode
8. countNodes
9. printReverseNodes

Using method (iterative of recursive) of your choice, write code of the following function. **10**

10. sortNodesAscending

********* The end *********