National University of Computer and Emerging Sciences, Lahore Campus



Course: Program: **Data Structure** BSCS

Course Code: Semester:

4th 4A

Name: Registration #:

Sama L19 -1333 Time: Assessment

Section:

20 mins Quiz 2

Q1: Reverse a linked list from position m to n. Note: $1 \le m \le n \le length$ of list.

Example:

Input: 1-2-3-4-5-NULL, m=2, n=4

Output: 1->4->3->2->5->NULL

a. Write down an algorithm for the aforementioned problem (Use any combination of your own imagination)

b. Write down code in C++ to accomplish the aforementioned task

) Make two linklists, assume that use have functions of insentathead() and insutattail() - From m ton, stone in & aunithary anested list using insantatted() 4 32 in our list - Then & wing insentation() insent elevents from original limblist till (m-1) Them from first amillary lift till mell and Then com acigued bit from n+1. Assume pint() and length() are available

(n tri, m tri, job trillis) suscess b

of (min and nelength()) // length() is a function

node KP = obj. head; "asking made is class with data and to well
int R=0;

While [B!= ma)

p=p->nent;

while (c!=n)

aml. insertat head (p->data); // storing 4 3 2

