National University of Computer and Emerging Sciences. Lahore Campus



Course Program

Registration #

Data Structure BBCS

Course Code Separature entrain

Summer Windows

4600 4.8 25 money

Calo Hamb

Assessment Churis 2

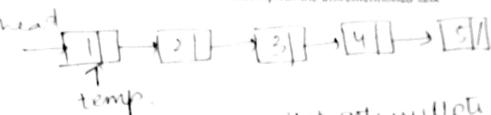
Q1. Reverse a linked list from position in to n. Note: I n in n is length of figs.



Example:

Input 1 - 2 - 3 - 4 - 5 - 5 + 1 + 1 + m = 2, n = 4Output 1.54.-3.-2.-5.-NULI

- Write down an algorithm for the aforementioned problem (1 se any combination of your own
- Write down code in C++ to accomplish the aforementioned task



-) loop will run until it gets mullipte -) gt checks in every itechtiken the value of m and n

-) 21 temp = wood (mbind remp) = n then it snaps

- I aprote values of an accord on so that I nevice be it and

void reverse (int m, int n)

Node temp= new Node () head,

Noch temp? - ment braket) tempment;

for (temp= head sstemp= temps nent; temp= neuly

if ((temp==m) 88 (temp2==m)) ; temps temps nent)

t3 stemps data; temps data = t3; Node + temp = head; Nace + temp = temp ment; While (temp! = nullpte) int 1320; if ((temp = = m) &8 (temp2 = = n)) t3 = temp-sdata; nents temp-sdata= temps-sdata; fempsidate = 13;

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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

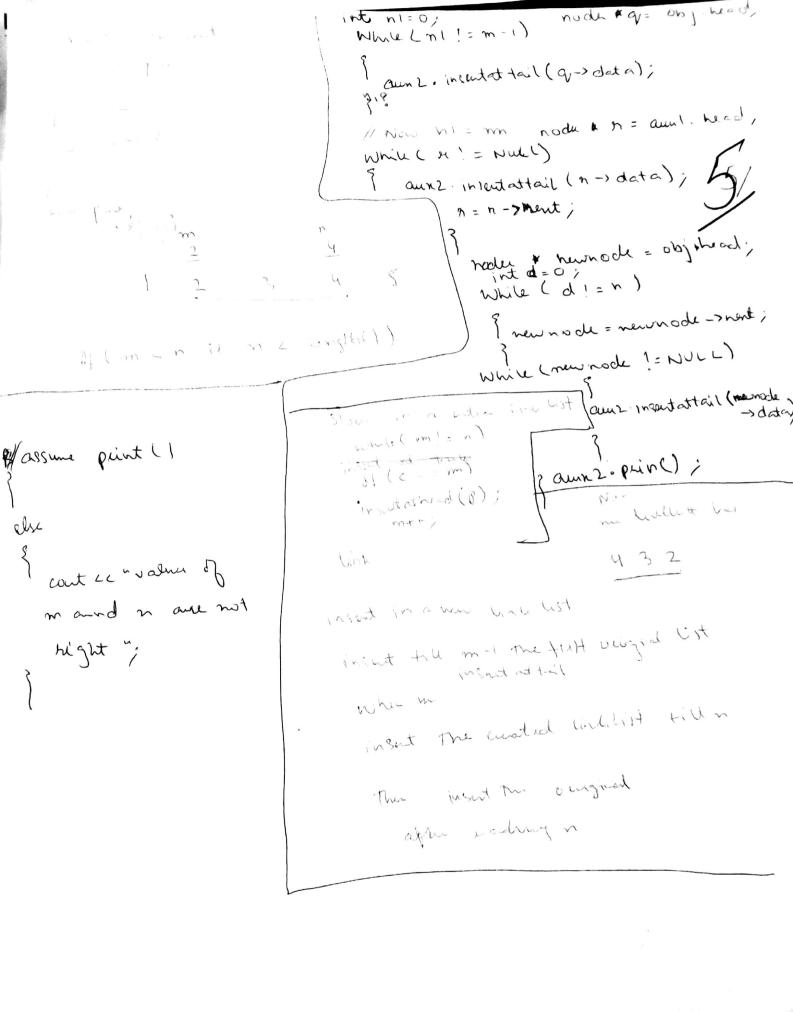
node KP = obj. head; "asking made is class with data and to well
int R=0;

While [B!= ma)

p=p->nent;

while (c!=n)

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



National University of Computer and Emerging Sciences, Lahore Campus



Course: Program:

Name:

Registration #:

Data Structure BSCS

186-1722

M-Haseeb-w-Retman

Course Code: Semester: Section: Time:

Assessment

20 mins Quiz 2

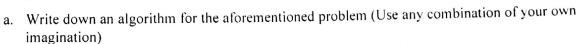
4th

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



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

