

## National Institute of Technology, Raipur

राष्ट्रीय प्रौद्योगिकी संस्थान, रायपुर G.E. Road, Raipur-492010 (C.G.) Phone: (0771) 22 54 200 Fax: (0771) 22 54 600 Website: www.nitrr.ac.in

Course Name: Computer Lab 201 (Data Structure) Instructor: Dr. Dibakar Saha and Dr. C. M. Anish

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## **Assignment 2:**

Problem 1: Write the following C program.

3+2+5=10 points

1. First, create a single linked list with N Nodes.

## Instructions:

- a. The value of N should be taken by the users.
- b. The linked list consists of N random numbers between 1 to 100 in ascending order
- 2. Print the Linked List.
- 3. Now generate a random number and store it in a variable X.
  - a. Check X is present or not in the linked list.
  - b. If X is present in the list, then delete that node from the list.
  - c. If X is not present in the list, then insert X in the list in the appropriate position.

Note: For proper indentation and print statements, you will get extra two points.

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