Design and Analysis of Algorithms
Minimum skill test - 02
B.Tech. IV (IT) - Section A

SR No _____   **Time: 15 min**

Write a C/C++ code for the following question

1. You are given a linked list whose data is integer. Write a function `kill_sort()` that will remove all the nodes that are not in monotonically increasing order. There should be no memory leak in the process.

    Eg:

    Input:

    $1 \rightarrow 4 \rightarrow 2 \rightarrow 3 \rightarrow 7 \rightarrow 6 \rightarrow 1 \rightarrow 9 \rightarrow 4 \rightarrow \emptyset$

    Output:

    $1 \rightarrow 4 \rightarrow 7 \rightarrow 9 \rightarrow \emptyset$

    The node is defined as:
    ```
    struct node {
            int data;
            struct node * next;
    };
    ```

    The function template is:
    ```
    void kill_sort( struct node * head );
    ```