Exercise:

***Question No. 1:***

Write a RemoveDuplicates() function which takes a list sorted in increasing order and deletes any duplicate nodes from the list. Ideally, the list should only be traversed once.

***Question No. 2:***

Write and test a method public void swapNodes(Node n) to search for a node containing a given data (as search keyword) and then swap this node with the next node. E.g. if the list 2->5->7->9 the call of the method swapNodes(5) will rearrange the list as 2->7->5->9, Note that each digits presents a complete node NOT the data saved inside.

***Question No. 3:***

Write and test a method public void reverse() to reverse the order of the nodes in the linked list. E.g. if the list a- >b->c->d the call of the method reverse() will rearrange the list as d->c->b->a..

***Question No. 4:***

Your friend is an Intelligence officer at Pakistan Railway, his colleague gave him a news about Karachi Express incident.

Incident: A group of People Hijack a Cabin of a Train, and one of their member is hidden somewhere in train.

Your task is to implement the scenario using singly linked list to help your friend.

Step1: Find a Hijacked Cabin

Step2: Than Go back to the Engine and start finding the Last member.

Note that the last member is hiding in any other cabin not in the Hijacked one.

***Question No. 5:***

Implement Bubble sort using Linked List.