1. (100 pts) Implement the following functions for linked lists. You can assume that all
the nodes in the linked list are distinct and each node appears in the list at most once.

node *delete(node *head, int k)
node *recursiveDelete(node *head, int k)

- delete deletes the node with info $k$ from the linked list and returns the new linked
  list. It returns the linked list without modification if $k$ does not appear in the
  list.
- recursiveDelete is a recursive function that deletes the node with info $k$ from the
  linked list and returns the new linked list. It returns the linked list without
  modification if $k$ does not appear in the list.

This is an in-class exercise and no submission is required.