1. (100 pts) Implement recursive and iterative delete functions for linked lists. Node declaration of the linked list is given below.

```c
struct node
{
    int info;
    struct node *next;
};
typedef struct node node;
```

You can assume that all the nodes in the linked list are distinct and each node appears in the list at most once. Prototype of the functions are given below.

```c
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.

Complete the body of functions in `recitation10.c`. If your functions are correctly implemented, output should be as follows.

**Original Lists**
List: 15 21 49 92 86 35 93 15 77 86 83 8
List: 15 21 49 92 86 35 93 15 77 86 83 8

**After Deleting 8**
List: 15 21 49 92 86 35 93 15 77 86 83
List: 15 21 49 92 86 35 93 15 77 86 83

**After Deleting 15**
List: 21 49 92 86 35 93 15 77 86 83
List: 21 49 92 86 35 93 15 77 86 83

Submit your program electronically using the blackboard system.