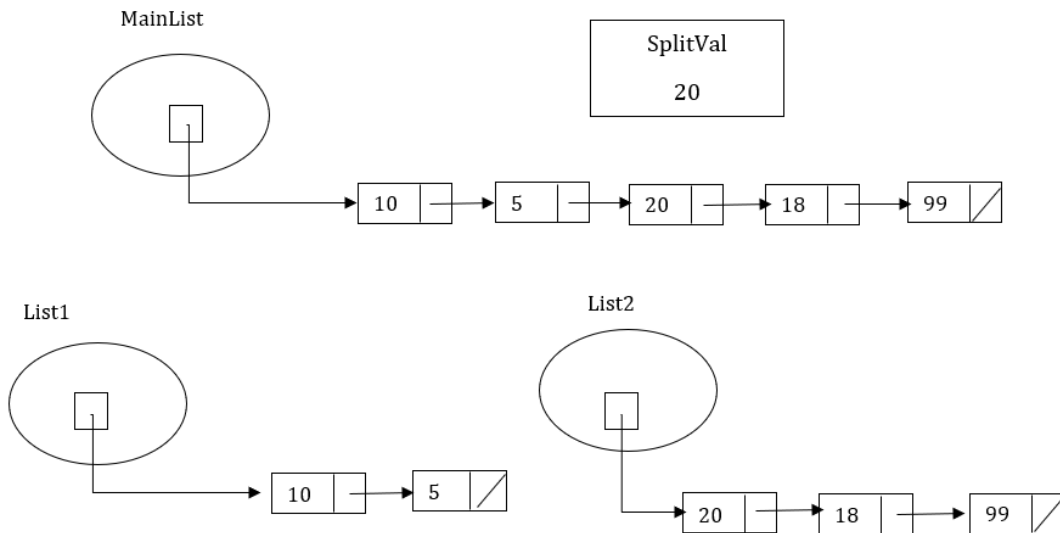


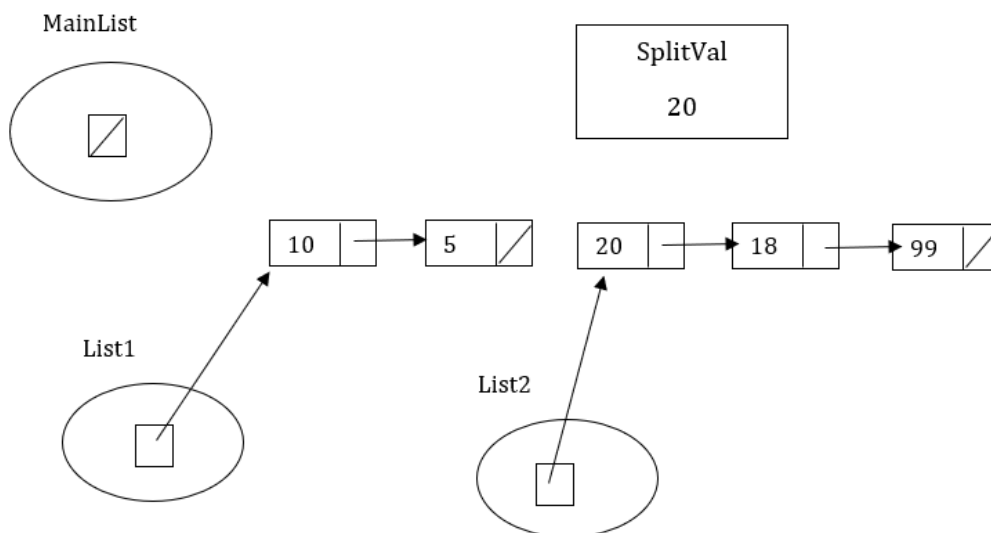
Assignment 2

1) Write a program to fill a list from the user, and then implement some function to split this list into 2 lists at a specific value.

- Implement 2 versions of this function as the following:
 - The first version does the splitting and makes the original list without any changing.
SplitList_1(MainList, SplitVal, List1, List2)



- The second version does the splitting and makes the original list empty.
SplitList_2(MainList, SplitVal, List1, List2)

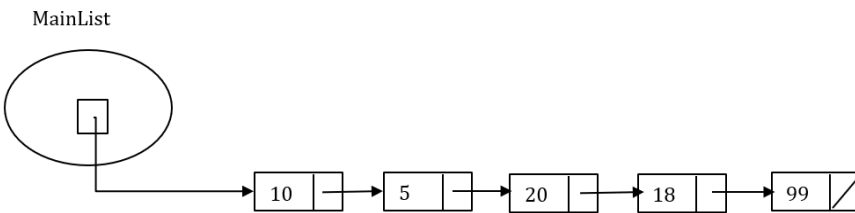


2) Write a program to fill a list from the user. And then implement some function to reverse the list nodes.

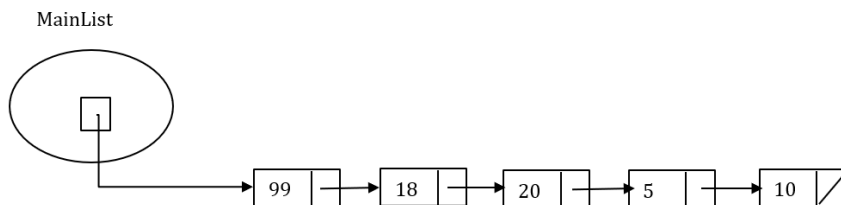
- Implement 2 versions of this function as the following:
 - The first version does the reverse operation on the original list.

ReverseList(MainList)

Input

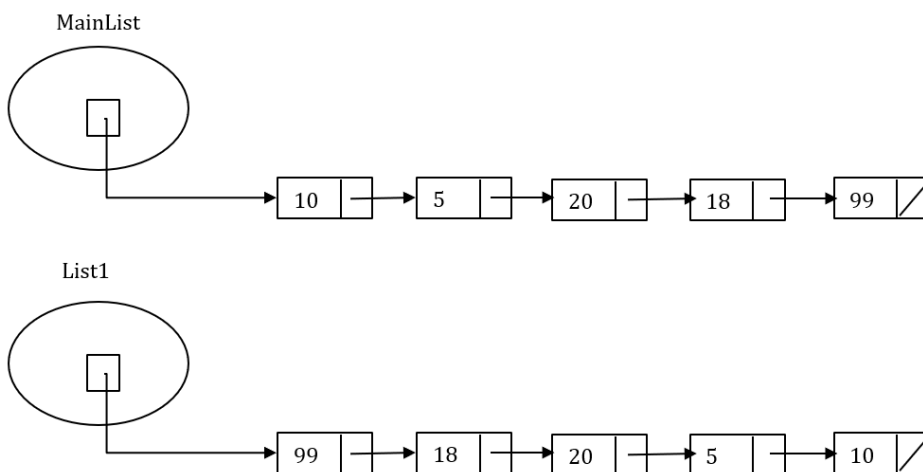


Output



- The second version creates a new list, which is the reverse of the first list, while keeping the first list unchanged.

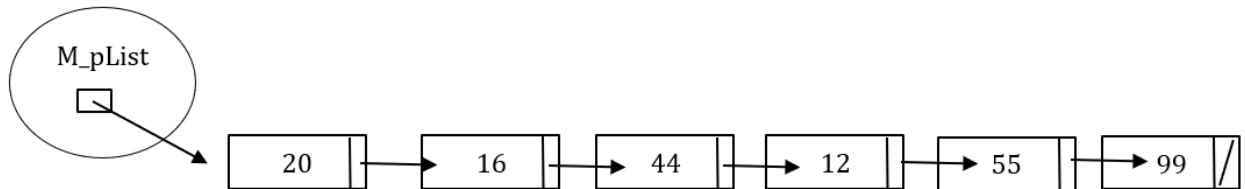
ReverseList(MainList, List1)



- 3) Write a program to do the following:
- Read the information of the nodes of a linked list.
 - Ask the user about a number.
 - Rotate the nodes in the list by this number.

Input

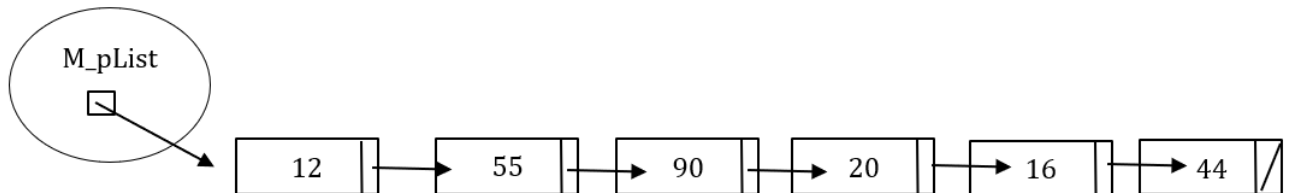
List1



NUMBER: 3

Output

List1

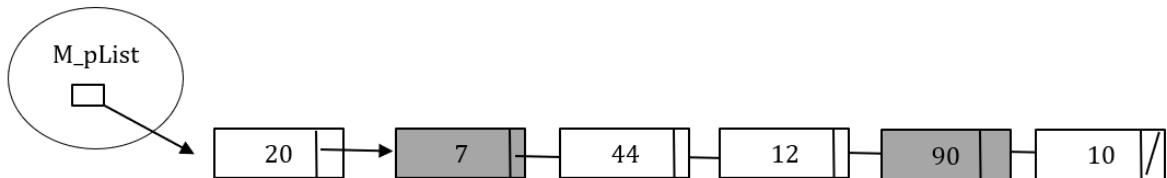


4) Write a program to do the following:

- Read the information of the nodes in a linked list.
- Find the node, which carry the maximum value.
- Find the node, which carry the minimum value.
- Copy all nodes between both in another linked list.
- Make the minimum & the maximum nodes the head of the second list.

Input

List1



Output

Minimum: 7

Maximum: 90

List2

