

Lab Assignment-3

Q 5. Write a program using functions for implementation of circular Queue.

Q 6. Write a program to perform following operations on Link List

a) Insertion

at the beginning

at the end

at the given location

in the sorted list

b) Deletion

of first node

of last node

of given item of node

of given item from sorted list

c) Given a list, split it into two sublists — one for the front half, and one for the back half.

If the number of elements is odd, the extra element should go in the front list. So

FrontBackSplit() on the list {2, 3, 5, 7, 11} should yield the two lists {2, 3, 5} and {7, 11}.

d) Given two one-way-link lists A and B. Sort them independently and then Merge as list C.

e) Two way link list insertion and Deletion

f) Header link list insertion and deletion