Pre-lab Worksheet CS163 Lab Session #4 – Other Linked Lists

Each group member should collaborate on this worksheet. All online students should participate!

The goal of these worksheets is to help prepare you for the next step in programming!

• Experience implementing circular and doubly linked lists from Topic #5

Goals:

•	Experience critical thinking. Build test plans and experience unit testing as member functions are developed	
	-	Circular Linked lists. Assume that a circular linked list has a rear pointer – which to the last item in the list. That node, in turn, points to the first node in the list When working with linked lists, the first thing to consider is the special cases. What are the special cases for finding a matching item in a circular linked list?
		For a linear linked list, what is the stopping condition when we want to traverse through all of the data (eg., for display) How would this change for a circular linked list? (Handle all special cases)
	2.	Create the algorithm for <u>removing the last item</u> in a circular linked list ?
	3.	Create the algorithm for inserting into a doubly linked list?