29 /5 / 2016
Date:
Time: 3 hours
Lecturer: Alaa A.H. Hashim

Subject: Data Structure
Class: 2nd
Branch: AI, SW, IS

Note: answer F0UR Questions only

Q1:) Write complete program to:

   a) read array contain (10) values ?

   b) Use function: construct <u>circular link list</u> (cplist) with nodes values taken from array?

   c) Use function: find the greatest value in the circular link list (cplist)?

Q2:) You have stack of size (10) contain (5) element , Write program segment with draw to:

   a) Add (7) elements to stack ?

   b) convert even values to another empty stack of size (6)?

   c) print the final state for new stack ?

Q3:) Having a circular Queue of size (10) , F=5 ,R=2   ,write program segment with draw to:

   a) convert all values of circular queue to empty queue of size (7)?
   b) Delete (3) elements from new queue?
   c) Print the final state of Queue?

Q4:) You have link list (plist), use _recursion_ to:
   a) write function to find number of nodes?
   b) Write function to find largest value?
   c) Write function to delete the fourth node?

Q5:) Write complete program contain : function to construct binary tree and another function to find the sum of even values and print this tree by post order?