

Assignment 3/ June 7, 2016/ Batch 1

1. Sort a stack using Recursion.
2. Read about Pointers, Structures and Manipulation of Structures.
3. Execute and write a program to find all the permutations of a string.
Example: 'abc' is a string then abc, bac, cba, acb, bca, cab are its 6 permutations.
4. Implement a Circular Queue (Take Special Care of Underflow and Overflow Conditions.)
5. Print the binary representation of all the numbers from 1 to n using Queue.
6. Petrol Pump Problem: As discussed in Class
there are n Petrol Pumps in a circular path. You are given amount of petrol present at each pump as well as distance between them. Write a code for finding if a motorbike will be able to make circular tour in given circumstances? Assume Initial Petrol amount to be zero.
7. Study about Priority Queue.
8. Study about double ended queue.
9. You are given a square matrix. Rotate it by 90 Degrees. Do not use any extra space.
10. Implement a Queue using a stack.

Note: Repeat Question 2 of Yesterday's Homework.