

Answer any three including question 4

- 1) Write a C++ program to merge two sorted array into one sorted array.

Sample input:      Array1 = 2, 4, 5, 8, 9

                     Array2 = 3, 6, 7, 10, 12

                     Output: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12

- 2) Write a C++ program to implement Stack using linked list. a) Insert into Stack   b) Delete an item from Stack   c) Traverse the Stack.
- 3) Write a C++ program to implement Queue using linked list. a) Insert into Queue   b) Delete an item from Queue   c) Traverse the Queue.
- 4) Write a C++ program for the following:

7      1      0      3      2      5      4      6      9      8      10

For the above list of integer numbers, create a Binary Search Tree Data Structure that will take the above numbers as inputs and will output the numbers in the Pre-order.