EASTERN UNIVERSITY, SRI LANKA

Second Examination in Science 2005/2006

First Semester - August/September 2007

CS 251 -Practical work on Data Structures & Design of Algorithms

Answer all questions

04 MAR 2008

Time allowed: 02 Hours

Miversity, Sri Bani

Q11

- a) Write a C++ function to implement the Merge sort algorithm.
- b) Write a main program to test your function.

Save your program as Quel.cpp.

- Q2)
 - a) Implement a Stack ADT class named ADTStack with the data type of character.
 - b) Implement the operations that can be done in a Stack ADT including the following operations.
 - a.push(char c);
 - b. pop();
 - c. isEmpty();
 - d. isFull();
 - c) Write a main program to read a word or string from the user and use the ADTStack class to display whether the entered word or String is palindrome or not.

(Your program should ask the user to enter a word or string)

Save your program as Que2.cpp.