



EASTERN UNIVERSITY, SRILANKA

SECOND EXAMINATION IN SCIENCE-2004/2005

FIRST SEMESTER (Jan./Feb.,2006)

CS 251 -- Practical Work on Data Structures & Algorithms

Answer all questions

Time: 2Hours

Q1)

- Write a C++ function to implement the **Quick Sort** Algorithm.
- Write a main program to check the above function. Use 100 random numbers to test your function.

Note: 1) Write comments in necessary places in your program.
2) Save your program as CS251_Q1.CPP.

Q2)

- Implement a stack ADT class called **CStack** to store characters.
- Implement the following primitive operations of stack:
Push(char c),
Pop(),
isEmpty(),
isFull().
- Write a program to read a word / string from the user and use your above class **CStack** to reverse the word.
(For Example : **Algorithms -> smhtiroglA**)

Note: 1) Write comments in necessary places in your program.
2) Save your program as CS251_Q2.CPP.