Marawan El Sharkawi

CSCI 301-Section 1

#cs301175

Project 7

**User Document**

Stacks are data structures that hold items one over the other. This program uses a Stack ADT implemented in sequential method using array. This program determines all the prime factors of a given integer using stack data structure and recursion technology.

The program creates a stack object then creates an integer variable and asks the user to input the integer the user want to know its prime factors, then it passes the value entered by the user as a parameter to the function which will perform the calculation then prints out all the prime factors of the integer found by the function and stored in the stack. This process keeps repeating until the user ends the program.

The program name is main.cpp; to compile and link it, simply enter:

g++ main.cpp

then enter: a.out

The program will run automatically, respond to the program prompts to enter a positive integer to check its prime factors, if you want to exit the program enter 0 when asked for an integer to enter.