BCS 230 Lab8

CRN 23798, 23322, 20108 Spring 2015

Instructor: Dr. Jie Li

Objective: To learn to use dynamic variables to manipulate data.

Task:

Write a program that performs the following tasks.

- 1) Declare an int pointer variable ptr. Create a dynamic int variable and store its address in ptr. Store integer 10 in the dynamic variable. Output the address and the value of ptr, and the value pointed to by ptr.
- 2) Double the value stored in the above dynamic variable. Output the new value.
- 3) Declare an int pointer variable numPtr. Ask the user to enter an integer as the size of a dynamic array. Create a dynamic int array of that size and store its base address in numPtr.
- 4) Input data into the dynamic array from the standard input device.
- 5) Write a function printArray to output the contents of an array. Call printArray function to output the above dynamic array.
- 6) Ask user to enter an integer and append it to the end of the dynamic array. Output the new array.
- 7) Destroy dynamic variables when they are no longer needed.