CS 210 – Fundamentals of Programming I
Fall 2006 – Homework 6
15 points
Out: November 16
Due: November 28 (Tuesday after Thanksgiving break)

1. (5 points) Write the analysis and design for a recursive function NumDigits that returns the number of digits in a non-negative integer. E.g. NumDigits(2485) returns 4 while NumDigits(32) returns 2.

2. (5 points) Write the C++ function definition for the recursive NumDigits function designed above.

3. (5 points) Write a C++ function definition for an iterative (i.e., non-recursive) version of NumDigits.