Individual Project 5
Due November 7, 2005

Write a C++ program along the lines described in Programming Project #3, page 362 of Shiflet, but instead of searching the range 1 to 999 have your program ask the user for a lower and upper bound of the range to search. Check that both the lower and upper bounds are positive, and that the upper bound is at least as large as the lower bound. If any of the validation tests fail, have the user re-enter the values until they succeed.

Design your program to include an int function CubedDigitSum that returns the sum of the cubes of the digits of its int argument. Note that you can evaluate the rightmost digit of a base 10 integer n as n % 10, and you can remove the rightmost digit from a base 10 integer using integer division by 10. Use a loop to keep removing digits and adding their cubes to the result, until the whole input number has been processed.