COSC 201 – Lab #10

Random

Purpose: Create random permutations!

Tasks:

1.) For this lab you'll be implementing a random permutation algorithm called Floyd's algorithm. Suppose you want to generate a random permutation of N distinct items from the range 1, 2, … , M. Needless to say N <= M. Floyd's algorithm does the following. First, it recursively generates a permutation of N-1 distinct items drawn from the range M-1. It then generates a random integer in the range 1 to M. If the random integer is not already in the permutation we add it; otherwise we add M.

2.) Turn in your code via the Digital Dropbox in Blackboard.