CS2223
HW#1

DUE: Tuesday, November 4

1 (12 points) Write & implement a routine *rand0to9* which returns a random integer in the set {0,…,9} drawn from a uniform distribution.Beware, simply returning *rand*()%10 will not work since the probability of returning 0 will be slightly more that the probability of returning 9. Generate a sequence of 1000 numbers generated by *rand0to9*.

- How many times was each number generated?
- Based on the results of this experiment, do you trust your random number generator? Why?
- How much time is used by each execution of *rand0to9*? Submit your program and describe your implementation.

2 (4 points) Do **Problem 1.43** on pg. 54 from our text.