

CSC 2300 – Data Structures and Algorithms

Homework 5

Due in Class on Tuesday, March 20

Late Policy is Three Late Days for the whole term

1. (a) Problem 5.1a
(b) Problem 5.8 (Consider only the method of separate chaining hash table.)
2. Problem 6.2
3. Problem 6.4 (Give detailed explanations for your answers.)
4. Problem 6.8
5. Problem 6.10a. In addition, write a C++ program to implement your algorithm. Apply your program to the binary heap you get in Problem 6.2a. Choose $X = 2, 4, 6, 8,$ and 10 . Does your algorithm run in time $O(K)$?