Homework #4

Data Structure (501324-3)

Fall 2023

Due: Thursday December 7, 2023, 11:59 pm via Blackboard

Required:

* Answer all the following questions.
* Implement and show the output of each linked list question.
* In each coding exercise, add a comment // your name // your id.
* NO homework will be accepted without this comment.
* Put everything in one PDF file and upload it.
* NO LATE homework or excuses will be accepted. I gave you enough time to work on this homework.

**Question 1:**

**Draw the Binary Search *Tree* (BST) that would result from the insertion of the following integer keys:**

**14 58 18 10 99 52 33 69 74 17**

* **Insert 21 into the resulting BST**
* **Delete 52 from the BST**

**Question 2:**

**Build the Minheap for the following items in the array:**

****

* **Insert 4 into the resulting Minheap**
* **Delete 5 from the resulting Minheap.**

**Question 3:**

**Given the following keys:**

**90 13 3 77 21 1**

* **Sort these items using bubble sort.**
* **Sort these items using selection sort.**