CS311
PROGRAMM
Due Wednesday, Oct
Due Tuesday, Octobe
Note: This project also has three inter

Assignment:

This project will provide better search
project replaces the hash table with two t
the actual Seminar objects. There will be

The Trees:

To search for seminar records that mat
range or cost range, you will use a collect
for each of: IDs, costs, dates, and keywo
write your BST, though it will require a fa
You may use BST code that you have pre
sure that it generates the same shape of
BST code taken from another source in yo
to the **left**. On deletion, if the deleted nc
node with **maximum** value from the **left**

To support searches by 2D locations, y
O(log n) performance for insert, delete, a
is unbalanced). This would allow you to
or within a key range. However, the BS
could combine the (x, y) coordinates into
BST. That would allow search by coordi
searching for cities within a given distanc
well for one-dimensional keys, while a coo

The Bintree (see Module 15.5 of Ope
commonly used to store **spatial** data such
and search queries.

Invocation and I/O Files:

The program would be invoked from t
`java SemSearch {world-size} {com`

The name of the program is `SemSea`
power of two, and it specifies the size of
assumed to have x and y coordinates fro
series of commands from text file `{comma`
in the command lines (although you **do**
insertions or deletions of records with nc
reading the end of the file. The formats fo
the additions shown below.

commands should generate a suit
ard output. Every command that is