

# CS 314: Data Structures

**April 25, 2021**

**Sam's Section**

Slides available at: [www.cs.utexas.edu/~slaberge](http://www.cs.utexas.edu/~slaberge)

# Logistics

- eCIS surveys open, fill them out for extra credit!
- Exam 3 is next **Friday, May 7th.**

# Binary Search Trees

## Assignment Retrospective

- Great job on this assignment! Only 2 more left to go!!
- Very few style mistakes
- Binary Search Trees are commonly on the final exam, be sure you're comfortable with them

# Binary Search Trees

## Experiment

Why is the Java TreeSet so much better than our BST for sorted data?

# Huffman Assignment

## Assignment Preview

- This assignment isn't very *hard*, but there's *a lot* to do. **Start Early!**
- Assignment Question Session: **Tonight @ 8pm CDT** (See Piazza @1146)
- If you're not sure where to start: write the PriorityQueue
  - Needs to be generic to any comparable types (like the BST)
  - You can use a Java ArrayList/LinkedList for this, you **don't** need to re-implement these data structures.

# Huffman Assignment

## Assignment Preview

- Take care to preserve encapsulation
  - Is having a `getRoot()` method in your `HuffmanTree` class good encapsulation?
- Be careful of long methods, break up methods into helper methods.
- Experiments are important and worth more points for this assignment, spend some time on them.

# Exam 2 Retrospective