

# CSSE 220

Merge Sort

Checkout *MergeSortSimple* project from SVN

# Today's Plan

- Big-oh practice
- Merge sort

# Merge Sort

- Basic recursive idea:
  - If list is length 0 or 1, then it's already sorted
  - Otherwise:
    - Divide list into two halves
    - Recursively sort the two halves
    - **Merge** the sorted halves back together

# Analyzing Merge Sort

If list is length 0 or 1,  
then it's already sorted

- Otherwise:
  - Divide list into two halves
  - Recursively sort the two halves
  - **Merge** the sorted halves back together

