Efficiency of Algorithms

Assignment class:

statusString() – O(1)

toString() – O(1)

StringTokenizer class:

has\_more\_tokens() – O(1)

next\_token() – O(1)

Date class:

toString() – O(1)

operator <() – O(1)

check\_valid() – O(1)

AssignTracker class:

addCompleted() – O(n)

printAssigned() – O(n)

printCompleted() – O(n)

addAssignment() – O(n)

completeAssignment() – O(n)

editAssignment() – O(n)

readIn() – O(n)

countLate() – O(n)

**These are O(n) because we had to iterate through the lists.**

Menu class:

printAll() – O(n)

addAssignment() – O(n)

editDueDate() – O(n)

editDescription() – O(n)

completeAssignment() – O(n)

numberOfLateAssignments() – O(n)

printNumberLate() – O(n)

saveToFile() – O(n)

readFileIn() – O(n)

**These are O(n) because we had to iterate through the lists.**