Algorithms

O(n) = Linear

O(log n) = Log value of n

**log2 (n)**

1000 = 10

1,000,000 = 20

O(n^2) = Quadratic (used to go through a 2 dimensional table, cols, rows)

<http://www.dreamincode.net/forums/topic/125427-determining-big-o-notation/>

<http://www.cforcoding.com/2009/07/plain-english-explanation-of-big-o.html>

**3/12/14**

Indexer : allows a class to act as an array

All .NET developers should know when to use T[], LinkedList<T>, List<T>, Stack<T>, Queue<T>, Dictionary<K,T>, HashSet<T>, SortedDictionary<K,T> and SortedSet<T>

Use a Linked list when you want to add things to both the beginning and end of a list

Use a List when you just need to add things to the end.

Stacks – last in, first out

Queues – first in first out

Dictionary – key value pairs, elements in the table have no particular order

Look up ICompareable

Look up Generic

**3/17/14**

Course feedback

Instead of using Rand for test data, have standard test data