**Linked Lists**

Advantages of using an array to implement the ADT:

1. fixed size or expand when becomes full via dynamic array expansion

2. easy way to extract data if we know the location

Disadvantages of using an array to implement the ADT:

1. Size expansion creates a lot more room then needed

2. must move all data when inserting/removing new data unless the data goes to the end of the list

Linked Lists:  
1. Uses memory only as needed

2. avoids moving data when adding or removing list entries

**nested class –** a class that is defined entirely within another class definition. Nested classes can be static.

**inner class –** a nested class that is not static

**outer class or enclosing class** – a class that contains a nested class

**top level class** – a class that is not nested

NOTE: Recall that an abstract method cannot have the keyword final in it.