# Chapter 3

**ADT Unsorted List**

3.1 Lists

3.2 Abstract Data Type Unsorted List

Logical Level

Abstract Data Type Operations

Constructors

Transformers (also called mutators)

Observers

Iterators

Generic Data Types

Application Level

Implementation Level

List Design Terminology

Data Structure

Constructor Operations

Observer Operations

Transformer Operations

Iterator Operations

Notes on the Array-Based List Implementation

Test Plan

3.3 Pointer Types

Logical Level

Application Level

Implementation Level

3.4 Implementing Class UnsortedType as a Linked Structure

Linked Structures

Class UnsortedType

Function PutItem

Constructor

Observer Operations

Function MakeEmpty

Function GetItem

Function DeleteItem

Functions ResetList and GetNextItem

Class Destructors

3.5 Comparing Unsorted List Implementations

Summary

Exercises