EECE.3220: Data Structures

Spring 2017

Lecture 17: Key Questions March 1, 2017

- 1. **Example:** Write functions to overload the following operators for the List class, assuming:
 - List data members are int mySize and ElementType myArray[CAPACITY]
 - CAPACITY is a pre-defined constant for the maximum array size.
- a. List operator +(const List &rhs);

b. friend istream & operator>>(ostream &in, List & aList);

2. Explain the new and delete operators.

3. If we implement a list using dynamic arrays, what parts of the class stay the same? What's different? What needs to be added?

4. Explain how the constructor needs to change in a dynamically allocated list.

5. Explain the purpose and operation of a destructor.

6. Explain the purpose and operation of copy constructors and the = operator. Why are the default versions of these functions not suitable for objects with dynamically allocated members?