Final review

**Standard Template library**

1. Understand the use of sequence container, associative container, and container adapter
2. Use the iterators and algorithms
3. Review examples of using set, map, and function objects

**Pointer and memory allocation**

1. Review the lecture note “Memory allocation”
2. Understand the “dynamic linked list”
3. Create a dynamic memory allocation for 2 dimensional array
4. Review the “dynamic matrix” lab assignment

**Operator overloading**

1. Implement binary operators, cin and cout
2. Implement data conversion: Basic to class, class to basic, and class to class
3. Review the “dynamic matrix” assignment

**Others**

1. Use friend functions
2. Use friend functions for functional notations
3. Use friend class
4. Overload assignment operators and copy contructors
5. Typeid versus dynamic cast