

Lab 2: SLL – Concatenating Lists

Create a project and add the given **AnyList.h** file to it. Complete the implementation by creating two more files, **AnyList.cpp** and **Main.cpp** as shown below:

- **AnyList.cpp**
 - Implement the following **member functions** of the class **AnyList**:
 - **Default constructor**
 - **Copy constructor**
 - **Overloaded assignment operator**
 - Short version (not the most efficient one): Destroys the calling object and copies all data from the parameter object.
 - Function **insertBack**
 - Inserts nodes to the end of the list.
 - **Overloaded insertion operator**
 - Prints the list starting from the first node and separates each element with a space.
 - Function **append**
 - Appends all the elements from the parameter object into the calling object; the parameter object is not modified.
 - Example:

Calling object is list: 3 8 7 4
Parameter object is list: 60 40 90 10 36

Calling object becomes: 3 8 7 4 60 40 90 10 36
Parameter object stays the same: 60 40 90 10 36
 - Function **destroyList**
 - Deletes each node in the list.
 - **Destructor**
 - Calls the function **destroyList**
- **Main.cpp**
 - Create your own testing cases