CSC 112 Lab 12
The `PixelLinkList` Class, Part 2
Spring 2015

Due
11:59pm Tuesday, 4/28

1 `PixelLinkList` Class Updates

Update the lab 11 `PixelLinkList` linked list class with the following member functions.

- The `remove(const Pixel& pix)` will remove **all** occurrences of `pix` from the list.
- The `operator+` will concatenate the `PixelLinkList` operands. The operator must allow the symmetric concatenation of `Pixel` and `PixelList` objects with a `PixelLinkList`. The overload will return the concatenated `PixelLinkList`.

Update your `pixellinklist.h` header file and place the new functions definitions in a new file called `pixellinklist2.cpp`

2 Programming Points

You **must** adhere to all of the following points to receive credit for this program.

1. Turn-in (print-outs and electronically) the files for this program.
2. Place the files in your `Grade/Lab11` directory.
3. You must submit all the files necessary to compile and link an executable program that utilized the `PixelLinkList class` and `PixelNode class`. This includes (but is not limited to) the following files (use the names listed below).
   - `pixellinklist2.cpp` contains the **new** `PixelLinkList` member definitions.
   - `pixellinklist.h` contains the **updated** `PixelLinkList` class definition.
   - `pixellinklist1.cpp` contains the `PixelLinkList` member definitions.
   - `pixelnode.h` contains the `PixelNode` class declarations.
   - `pixelnode.cpp` contains the `PixelNode` member definitions.
   - `driver.cpp` is a *driver* program that tests the `PixelLinkList` class.
   - `pixellist.h`, `pixellist1.cpp`, `pixellist2.cpp`, `pixel.h`, and `pixel.cpp`
   - `makefile` is a makefile to compile the driver program. Note, the makefile must also compile all necessary files, be commented, and have a `make clean` option.
4. All `PixelList`s, `PixelNode`s, and `PixelLinkList`s must be dynamically allocated with **no wasted space!** Be certain **no** memory leaks occur.
5. Perform appropriate error checking.