# CS 255 Computer Science II Spring, 2022

**Assignment #8**

**Value: 30 points**

Create a class implementation of a linked list of pets. Each node should contain:

1. String Pet Name (i.e., Fido, Garfield, Snoopy, etc.)
2. String Pet Type (i.e., Dog, Cat, Horse, etc.)
3. Integer Pet Age
4. Link to a node

Present a menu to the user when the program begins:

1. Display list (beginning at head, print Pet name, type, and age for entire list)
2. Add to head (should prompt user for Pet name, type, and age)
3. Add to tail (should prompt user for Pet name, type, and age)
4. Search given type (should prompt user for Pet type, display name and age of all matches)
5. Delete node given Pet name. Provide message regarding success of the deletion.
6. Print average age for all pets (iterative function)
7. Print average age for all pets (recursive version)
8. Quit

**Documentation:** In addition to the required comments at the top of the program, each function/method must include a comment block with the 5 necessary pieces.

**Upload a zipped file containing all source code and header files. Do not include other files. Only include “.cpp” and “.h” files.**