**Refer to the documenting and submitting homework from** [**Programming Guidelines**](https://ucdenver.instructure.com/courses/347316/pages/programming-guidelines)**.**

Recursion vs Iterative functions.

For this assignment you will make a Recursion class with two recursive member functions.

 a) Implement the recursive binSearchRec algorithm presented in this chapter, starting on page 68 for a vector of vehicles. "

Sort first by year then take that list and sort it by make and then take that list and sort it by model." Changed to:

Sort by year then call a recursive function to do a binary search which lists out all vehicle information for a user input year.

then

Sort by make then call a recursive function to do a binary search which lists out all vehicle information for a user input make.

then

Sort by model then call a recursive function to do a binary search which lists out all vehicle information for a user input model.

Then do these same 3 Searches  for an input (year, make, model), but use loops instead of a recursive function.

  Read in the vehicles from a vehicle file ([**vehiclein.txt**](https://ucdenver.instructure.com/courses/347316/files/4667948/download?wrap=1)**[Preview the documentView in a new window](https://ucdenver.instructure.com/courses/347316/files/4667948/download?wrap=1)**) that has a year, make, and model.  Each vehicle is separated with a | (straight bar) on it's own line.  (Note that make and models might have spaces in them)

b)Implement a member function with the same functional requirements, except instead of a recursive member function, use an iterative (non-recursive) binarySearchIter.  Your iterative function should produce the same results as your recursive function.