Suggested steps for implementing PA#2

- 1. Copy the function prototypes and two functions from instructions into your program. Comment out prototypes of functions not yet defined.
- 2. In main, set up your menu loop. See menu.cpp for a suggested pattern (but call the displayMenu function). Set up your switch to output a statement for each case for now.
- 3. If a wrong choice is entered, output: "Please enter 1, 2, 3, 4, or 5: "
- 4. Declare the Result struct
- 5. Define the **displayDataset** function (call displayHeader, etc.)
- 6. In main:
 - create an array of Result.
 - initialize it to the first three race results in the dataset (remove before step 10).
 - have a count variable, set to 3.
 - call displayDataset from cases 1 and 2 of the switch, make sure it displays properly.

(you could skip ahead to step 10 now if you prefer)

8. Define linearSearchByName

- call it from case 3 of the switch
- you will need to input the name from the user using getline(cin, variable). But you will need to do cin.ignore, or cin >> ws; before the getline.

9. Define **sortByNumber**

call it from case 1 of the switch

10. Define **readDataset** function:

- copy dataset.txt to your directory.
- in main:
 - create an ifstream variable for dataset.txt (include fstream) and open it in main!!
 - call readDataset from main before the display (set count to 0 first)
 - hint: temporarily output each result from readDataset to find any problems
 - o ctrl-C if infinite loop.

11. implement sortByDistanceTime

- call it from case 2 of the switch
- 12. implement binarySearchByNumber
 - call it from case 4 of the switch