Asgn 1 Demo Specs (& Related Notes)

CHANGES to make BEFORE Running the Demo

UserApp The default value (in the ELSE clause . . .) needs fixing:

```
else {
    fileNamePrefix = "A2Z";
    transFileNamePrefix = "A2Z";
}
```

ShowFilesUtility The default value (in the ELSE clause . . .) needs fixing:

```
else {
    fileNamePrefix = "A2Z";
    nRecToShow = "All";
}
```

WHAT TO DO FOR THE DEMO

- 1. The 3 RawData.csv files & 5 TransData.txt files are in the correct folder in your project
- 2. Run AutoTesterUtility
- 3. Then MANUALLY, YOU run Setup program, then UserApp program, then ShowFilesUtility (which all use the defaults specified in the else's shown above).
- 4. Print LogSession.txt file in NOTEPAD (or WordPad or...).
 - a. Use a FIXED-WIDTH FONT (like Courier New) so record fields line up nicely.
 - b. Use a SMALLER FONT size and/or LANDSCAPE orientation to stop wrap-around (or truncated) lines.
- 5. Print DupMainData.bin from the HexEditor (or use Linux' od). [NOTE: The HexEdit program you use must print both the HEX & CHAR versions).
- 6. Print all of your program code files.
- 7. Circle what I've described below (by hand).

WHAT TO HAND IN (in the order specified below)

- Signed Cover sheet
- 2. Printout of the LogSession.txt file CIRCLE THE FOLLOWING for the **Dup** data set run:
 - a. The "ERROR DUPLICATE ID" messages
 - b. The ListAllById results
- 3. Printout (from HexEdit or od) of **Dup**MainData.bin file

CIRCLE THE FOLLOWING in the HEX section (not the CHAR section):

a. n, maxld [as 2 individual fields]

- The record at RRN 3 [as one single record]
- c. The "record" (an empty location) at RRN 5 [as one single record]
- d. All of the 9 individual fields for the record for GBR
- 4. YOUR program code: (IN THIS ORDER) (There are at least 7 actual separate files)

Setup program

UserApp program

ShowFilesUtility program (if you wrote your own or modified one from the website)

RawData class

UserInterface class

DataStorage class

any other code files/classes you used in your program

HOW MUCH COMMENTING IS NEEDED?

- Self-documenting code including:
 - descriptive NAMING of programs, methods, classes, objects, records, fields, namespaces/packages, variables, constants, etc. [according to conventional C#/Java naming conventions] AND using the same naming as used in my SPECS (so "everyone's on the same page")
 - good MODULARIZATION (using OOP for Setup and UserApp, short modules, sharing of the classes) and using the modularization described in the specs and in class (so "everyone's on the same page")
 - following the REQUIREMENT SPECS closely, so that your "boss's" specs act as a form of external documentation (which does NOT need repeating within your program).
- A **top-comment** on each physical file with: the module name & the code author's name & the overall app name
- A comment-line-of-*'s between chunks of code (e.g., methods, constructor, ...)
- Comments on tricky code or unusual ways of doing things or things which don't follow
 the specs (since a maintenance programmer would read the specs and ASSUME that the
 program would OF COURSE follow them)
- You do **NOT need line-by-line** commenting

NOTES:

- Re-read specs for A1 to make sure you're doing everything right (to maximize points)
- QI & LI transactions MUST use methods in DataStorage class

NOTES on DataStorage class methods

- QueryById MUST use DirectAddress search − linear search → 0 points
- ReadOneRecord is overloaded one version for sequential read (no RRN specified) and one version for random read (RRN specified)
- Do not do special checking for ID's > MaxId just use ReadOneRecord and let it naturally determine that it's an empty location
- ListAllById does NOT show holes!!!!
- DeleteById is a DUMMY STUB