The Online Grade Book Project

Date: _____

C Program / Data file Responsibilities

Thursday May 5 File Manager Objectives:

Each student will have the following C programming responsibilities for at least one File Manager and completing the following tasks:

Version 1: **Expected completion day : Thursday May 5**

a. Use the functions provided wherever possible, see ibcsprocs.h. You will be penalized for writing your own versions of any functions that have been provided to you.

b. Open the configuration file, and read in the list of file names for the project. Example:

```
FileNames   fns;
          //  Always get the list of file names
          if (get_fileNames(&fns) != 1) {
                    printf("error getting the file names\n");
                    exit(1);
                }
```

c. Use the file name from the configuration file to open the data file associated with the file manager.

d. Read in the FTOC for the data file

e. print the FTOC record

f. print a help screen to show what file manager functions have been implemented

g. In the main program, process the command line arguments to implement the following functions

-help	display a list of the commands that have been implemente
-TOC	prints the contents of the data files FTOC record
-Debug n	variable named Debug to the integer value n

Version 2: **Expected completing day: Thursday May 5, finish for homework as needed**

a. Implement a function that will generate test data, at least one record with meaningful data values (which means don't initialize all of the fields to the same value, make them differerent and relevant and easily identifiable using hexdump). When each data record is added it must also update the FTOC fields so anyone can tell how many records should be in the file, and what the next record number should be.

b. Update the menu to include the command GenData

c. Update the main program to process the –GenData command and to call your function.

d. Implement int prt_FILE(***FILESTRUCT*** var); Requirement: Accepts a variable that is one of the file struct, and use printf to display the contents to the screen; replace FILE with the file that you are processing.

e. After generating each data record, call prt_FILE to print it out – if the value of Debug is greater than 0.