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\* Name: Ebony Cross

\* Class: CS 226

\* Project 10B: mainmenu.h

\* Instructor: Tsai

\* Description: Implement user input, validation, file input/output streams, while loops, functions, implementation of classes, structures, pointers and display module menus

\* Due: 11/23/2015

\* Platform/Compiler: Xcode

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#ifndef PROJECT3\_CROSS\_MAINMENU\_H //Project10B\_Cross\_mainmenu\_h

#define PROJECT3\_CROSS\_MAINMENU\_H //Project10B\_Cross\_mainmenu\_h

#include <string>

#include <cstring>

#include <fstream>

using namespace std;

class BookData

{

private:

char bookTitle[51]; //holds title of each book in inventory

char isbn[14]; //holds ISBN of each book

char author[31]; //hold name of the author of each book

char publisher[31]; //hold name of publisher of each book

char dateAdded[11]; // hold date of each book, sotre in the form mm-dd-yy

int qtyOnHand; // hold the quantity of the each book

double wholesale; //hold the wholesale price of each book

double retail; //hold the retail price of each book

public:

//default constructor

BookData ();

//constructor

BookData (char [], char [], char[], char [],char [], int, double, double);

//setters

void removeBook(BookData s[], int index);

void setTitle(char[]);

void setISBN(char[]);

void setAuthor(char[]);

void setPub(char[]);

void setDateAdded(char[]);

void setQty(int);

void setWholesale(double);

void setRetail(double);

int isEmpty(BookData [], int);

//getters

const char \*getTitle() const

{return bookTitle;}

const char \*getIBSN() const{ return isbn;}

const char \*getAuthor() const {return author;}

const char \*getPub() const { return publisher;}

const char \*getDateAdded() {return dateAdded;}

const int getQty() {return qtyOnHand;}

const double getWholesale() {return wholesale;}

const double getRetail() {return retail;}

//other functions

bool bookMatch(BookData[], int, char[]);

int printMainMenu();

int printReportMenu();

int printInvMenu();

};

//prototypes

void strUpper(char \*ptr);

bool openFileIn(fstream &, string);

void writeToFile(fstream &, string fileName);

int searchFile(fstream &, string name, char value[], int size);

void addFileContents(fstream &file);

void bookinfo(BookData info[], int size);

//void removeBook(BookData s[], int index);

void cashier();

void invmenu();

void reports();

void lookupBook();

void addBook();

void editBook();

void deleteBook();

void repListing();

void repWholesale();

void repRetail();

void repQty();

void repCost();

void repAge();

int searchISBN(BookData list[], int size, char[]);

int isEmpty(BookData [], int);

void dateSort(BookData s[], int size);

void costSort(BookData s[], int size);

void QtySort(BookData s[], int size);

double totalSum(BookData \*arr, BookData \*arr\_ptr2, int size);

string convert(string);

int searchList(BookData list[], int size, char value[]);

int strSearch(BookData list[], int size, char value[]);

int strSearchISBN(BookData list[], int size, char value[]);

int strSearch2(char list [][11], int size, char value[][11]);

void setTitle(BookData \*s);

#endif //end of header file