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client.cpp
// Library with books in unsorted order using dynamic array implementation
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#include <iostream>
#include "library.h"

using namespace std;

int main()
{
    int size;

    cout << "Enter the capacity of a library" << endl;
    cin >> size;

    Library wesleyanLib(size);
    Library computerScienceLib(wesleyanLib);

    cout << "The number of books in Wesleyan library is " <<
wesleyanLib.numBooksInLibrary() << endl;
    cout << "The number of books in CSC library is " <<
computerScienceLib.numBooksInLibrary() << endl;

    int number;
    bool found;
    char command;

    cout << "Enter a command: " << endl;
    cout << "I: insert; D: delete; S: search; P: print; Q: quit" << endl;
    cin >> command;

    while (command != 'Q' && command != 'q')
    {
        switch(command)
        {
            case 'i':
                case 'I':
                {
                    cout << "Enter the isbn: " << endl;
                    cin >> number;
                    Book * aBook = new Book(number);
                    wesleyanLib.insertBook(aBook);
                    break;
                }
            case 'd':
            case 'D':
            {

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        cout << "Enter the isbn: " << endl;
        cin >> number;
        wesleyanLib.deleteBook(number);
        break;
    }
    case 's':
    case 'S':
    {
        cout << "Enter the isbn: " << endl;
        cin >> number;
        found = wesleyanLib.searchBook(number);
        if (found)
            cout << number << " found in list." << endl;
        else cout << number << " not in list." << endl;

        break;
    }
    case 'p':
    case 'P':
    {
        wesleyanLib.printLibrary();
        break;
    }
}
cout << "Enter a command" << endl;
cin >> command;
}

    cout << "The number of books in Wesleyan library is " <<
wesleyanLib.numBooksInLibrary() << endl;
    cout << "The number of books in CSC library is " <<
computerScienceLib.numBooksInLibrary() << endl;
    return 0;
};

//Enter the capacity of a library
//100
//The number of books in Wesleyan library is 0
//The number of books in CSC library is 0
//Enter a command:
//I: insert; D: delete; S: search; P: print; Q: quit
//I
//Enter the isbn:
//123
//Enter a command
//I
//Enter the isbn:
//456

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```
//Enter a command
//I
//Enter the isbn:
//789
//Enter a command
//I
//Enter the isbn:
//741
//Enter a command
//P
//123
//456
//789
//741
//Enter a command
//S
//Enter the isbn:
//456
//456 found in list.
//Enter a command
//S
//Enter the isbn:
//963
//963 not in list.
//Enter a command
//D
//Enter the isbn:
//789
//Enter a command
//P
//123
//456
//741
//Enter a command
//I
//Enter the isbn:
//951
//Enter a command
//P
//123
//456
//741
//951
//Enter a command
//D
//Enter the isbn:
//123
//Enter a command
```

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```
//P
//951
//456
//741
//Enter a command
//Q
//The number of books in Wesleyan library is 3
//The number of books in CSC library is 0
//Press any key to continue . . .
```