```
#include <iostream>
#include <string>
#include <vector>
#include <algorithm>

class Book {
private:
    std::string title;
    std::string author;
    std::string isbn;
    bool isIssued;

public:

    Book(std::string t, std::string a, std::string i)
        : title(t), author(a), isbn(i), isIssued(false) {}

    std::string getTitle() const { return title; }
    std::string getAuthor() const { return author; }
    std::string getISBN() const { return isbn; }
    bool getStatus() const { return isIssued; }

    void issueBook() { isIssued = true; }
    void returnBook() { isIssued = false; }

    void display() const {
        std::cout << "Title: " << title << ", Author: " << author
                  << ", ISBN: " << isbn << ", Status: "
                  << (isIssued ? "Issued" : "Available") << std::endl;
    }
};

class Library {
private:
    std::vector<Book> books;
```

```
public:

    void addBook(const Book& book) {
        books.push_back(book);
        std::cout << "Book added successfully." << std::endl;
    }

    void searchByISBN(const std::string& isbn) {
        auto it = std::find_if(books.begin(), books.end(), [&](const Book& b){
            return b.getISBN() == isbn;
        });

        if (it != books.end()) {
            it->display();
        } else {
            std::cout << "No book found with that ISBN." << std::endl;
        }
    }



    void displayAllBooks() const {
        std::cout << "\n--- Library Catalog ---" << std::endl;
        for (const auto& book : books) {
            book.display();
        }
        std::cout << "-----------------------" << std::endl;
    }

};

int main() {
    Library myLibrary;

    myLibrary.addBook(Book("Objectorientedprogramming", "Daniel ",
"97800000"));
    myLibrary.addBook(Book("c++ programming", "Jane", "97845000"));
```

```
    myLibrary.displayAllBooks();
    myLibrary.searchByISBN("97800000");

    return 0;
}
```