

```

#include <iostream>
using namespace std;

struct Book
{
    int isbn;
    char title[30];
    char author[30];
    int year;
    Book* prev;
    Book* next;
};

Book* start = NULL;

void insertBook()
{
    Book* temp = new Book;

    cout << "Enter ISBN: ";
    cin >> temp->isbn;

    cout << "Enter Title: ";
    cin >> temp->title;

    cout << "Enter Author: ";
    cin >> temp->author;

    cout << "Enter Publication Year: ";
    cin >> temp->year;

    temp->next = NULL;
    temp->prev = NULL;

    if (start == NULL)
    {
        start = temp;
    }
    else
    {
        Book* cur = start;
        while (cur->next != NULL)
            cur = cur->next;

        cur->next = temp;
        temp->prev = cur;
    }

    cout << "Book Inserted Successfully\n";
}

void searchBook()
{
    int is;
    cout << "Enter ISBN to Search: ";
    cin >> is;

    Book* cur = start;
    while (cur != NULL)
    {
        if (cur->isbn == is)
        {
            cout << "ISBN: " << cur->isbn << endl;
        }
    }
}

```

```

        cout << "Title: " << cur->title << endl;
        cout << "Author: " << cur->author << endl;
        cout << "Year: " << cur->year << endl;
        return;
    }
    cur = cur->next;
}
cout << "Book Not Found\n";
}

```

```

void modifyBook()
{
    int is;
    cout << "Enter ISBN to Modify: ";
    cin >> is;

    Book* cur = start;
    while (cur != NULL)
    {
        if (cur->isbn == is)
        {
            cout << "Enter New Title: ";
            cin >> cur->title;

            cout << "Enter New Author: ";
            cin >> cur->author;

            cout << "Enter New Year: ";
            cin >> cur->year;

            cout << "Book Updated Successfully\n";
            return;
        }
        cur = cur->next;
    }
    cout << "Book Not Found\n";
}

```

```

void displayBooks()
{
    Book* cur = start;
    int count = 0;

    if (cur == NULL)
    {
        cout << "No Books Available\n";
        return;
    }

    while (cur != NULL)
    {
        cout << "ISBN: " << cur->isbn << endl;
        cout << "Title: " << cur->title << endl;
        cout << "Author: " << cur->author << endl;
        cout << "Year: " << cur->year << endl << endl;

        count++;
        cur = cur->next;
    }

    cout << "Total Books: " << count << endl;
}

```

```
int main()
{
    int choice;

    do
    {
        cout << "\n1. Insert Book";
        cout << "\n2. Search Book";
        cout << "\n3. Modify Book";
        cout << "\n4. Display Books";
        cout << "\n5. Exit";
        cout << "\nEnter Choice: ";
        cin >> choice;

        if (choice == 1)
            insertBook();
        else if (choice == 2)
            searchBook();
        else if (choice == 3)
            modifyBook();
        else if (choice == 4)
            displayBooks();

    } while (choice != 5);

    return 0;
}
```