```cpp
#include <iostream>
#include <string>

using namespace std;

class Book {
public:
    string title;
    string author;
    int year;

    void displayInfo() {
        cout << "Title: " << title << endl;
        cout << "Author: " << author << endl;
        cout << "Year: " << year << endl;
    }
};

int main() {
    const int maxBooks = 10;
    Book library[maxBooks];
    int numBooks = 0;

    while (true) {
        cout << "Library Management System" << endl;
        cout << "1. Add a book" << endl;
        cout << "2. Display all books" << endl;
        cout << "3. Exit" << endl;

        int choice;
        cin >> choice;

        switch (choice) {
            case 1:
                if (numBooks < maxBooks) {
                    cout << "Enter title: ";
                    cin.ignore();
                    getline(cin, library[numBooks].title);

                    cout << "Enter author: ";
                    getline(cin, library[numBooks].author);

                    cout << "Enter year: ";
                    cin >> library[numBooks].year;

                    numBooks++;
                } else {
                    cout << "Library is full." << endl;
                }

        break;
```

```cpp
        case 2:
          cout << "Books in the library:" << endl;
          for (int i = 0; i < numBooks; i++) {
            cout << "Book " << (i + 1) << ":" << endl;
            library[i].displayInfo();
          }
          break;

        case 3:
          cout << "Exiting the program." << endl;
          return 0;

        default:
          cout << "Invalid choice. Please enter a valid option." << endl;
      }
    }

    return 0;
}
```