```
#include <iostream>
#include "Library.h"
using namespace std;

Library myLibrary("NCKU Library");
myLibrary.addBook(Book("C++ Programming", "Bjarne Stroustrup", "9780321563842"));
myLibrary.addBook(Book("Data Structures", "Nicola Lacey", "9780131986190"));
myLibrary.addBook(Book("Algorithm Design", "Jon Kleinberg", "9780321295354"));
myLibrary.addBook(Book("Operating Systems", "Andrew S. Tanenbaum", "9780133591620"));
myLibrary.addBook(Book("Computer Networks", "Andrew S. Tanenbaum", "9780132126953"));
myLibrary.displayLibrary();

return 0;
```

```
#include "Library.h"
    #include <iostream>
    #include <string>
 4 using namespace std;
    Library::Library(string Lname) : libraryName(Lname), booknum(∅){}
    void Library::addBook(Book book){
        if (booknum < 10){</pre>
             listOfBooks[booknum] = book;
11
             booknum++;
12
        else if (booknum > 10){
13
             cout << "Exceed the array limit!" << endl;</pre>
        3
15
    void Library::displayLibrary(){
        cout << "Library name: " << libraryName << endl;</pre>
21
        cout << "\nIt contains: \n" << endl;</pre>
        for (int order=0; order<booknum; order++){</pre>
             cout << order+1 << ". ";</pre>
23
             listOfBooks[order].displayBook();
             cout << endl;</pre>
        }
    }
```

```
#ifndef LIBRAYR_H
   #define LIBRAYR_H
 2
 3
 4 #include "Book.h"
   #include <string>
   using namespace std;
8 class Library{
        private:
            const string libraryName;
10
            static const int SIZE = 10;
11
            Book listOfBooks[SIZE];
12
            int booknum;
13
14
        public:
15
            Library(string);
16
            void addBook(Book book);
17
            void displayLibrary();
18
19
   };
20
21
   #endif
```

```
#include "Book.h"
#include <iostream>
#include <iostream>
#include <string>
#include <string>
#include <string>
#include <string>
#include <string>
#include <string>
#include <iostream>
#include <iostr
```

```
1 #ifndef BOOK H
 2 #define BOOK H
 4 #include <string>
 5 using namespace std;
 7 class Book{
       private:
            string title;
            string author;
10
            string ISBN;
11
12
13
        public:
            Book();
14
            Book(string, string);
15
            void displayBook() const;
16
17 };
18
19 #endif
```

```
Library name: NCKU Library

It contains:

1. Title: C++ Programming, Author: Bjarne Stroustrup, ISBNI: 9780321563842

2. Title: Data Structures, Author: Nicola Lacey, ISBNI: 9780131986190

3. Title: Algorithm Design, Author: Jon Kleinberg, ISBNI: 9780321295354

4. Title: Operating Systems, Author: Andrew S. Tanenbaum, ISBNI: 9780133591620

5. Title: Computer Networks, Author: Andrew S. Tanenbaum, ISBNI: 9780132126953
```