

```
1 #ifndef List02_h
2 #define List02_h 1
3 //-----
4 // File List02.h
5 //-----
6 // Project p02 is comprised of the following files:
7 // File      Description
8 //
9 // p02.cpp    Processes command line arguments and directs the process
10 //            the Cartesian product.
11 //
12 // List02.h   Defines class List - a list of strings
13 //
14 // List02.cpp Implements class List
15 //
16 // p02make    Creates executable file p02 from files p02.cpp,
17 //            List02.cpp, and List02.h
18 //-----
19 //Author:     Ms. Petunia Perfect
20 //Student ID: *00000000
21 //Course:     CMSC 2123 - Discrete Structures
22 //CRN:        11786, Autumn, 2015
23 //Project:    p02
24 //Due:        September 18, 2015
25 //Account:    tt000
26 //-----
27 //Copyright September, 2015 by Thomas R. Turner.
28 //Do not reproduce without permission from Thomas R. Turner.
29 //-----
30 //C++ standard include files.
31 //-----
32 #include <cstdlib>
33 #include <cstring>
34 #include <iostream>
35 #include <string>
36 #include <fstream>
37 using namespace std;
38 //-----
39 //Class List defines a list of strings
40 //-----
41 class List {
42     int size;           //Number of available elements
43     int count;          //Index of the next available element
44                       //Number of occupied elements
45     string* L;          //Pointer to an array of strings used to implement
46 the list
47     int cursor;         //Index of the current element
48 public:
49     List(int sz=100);
50     ~List();
51     bool isFull(void);
52     bool isEmpty(void);
53     void Insert(string v);
54     void Scan(istream& i);
55     void Print(ostream& o,const char* title);
56 };
57 #endif
```