```cpp
 1  // Assignment4TV.cpp : Defines the entry point for the console application.
 2  //
 3
 4  #include "stdafx.h"
 5
 6  using namespace std;
 7
 8  /* NAME: ALEX FRIEDBERG
 9  DATE : 4 / 2 / 17
10  ASSIGNMENT : 4
11
12  TV SHOW PROGRAM
13  MAIN PROGRAM
14
15  */
16
17  #include "stdafx.h"
18  #include <iostream>
19  #include <string>
20  #include <fstream>
21  #include <sstream>
22  #include "tree.h"
23
24  int main()
25  {
26      cout << "Hello, World" << endl;
27      bool parseFromFile = true;
28
29      //linklist* outTheDoorQueue;
30
31      string inputFile;
32
33      cout << "What is the name of the file you would like to read? :" << endl;
34      cin >> inputFile;
35
36      cout << inputFile << endl;
37
38      ifstream fin(inputFile);
39      if (fin) {
40          cout << "FILE OPENED" << endl;
41      }
42      else {
43          cout << "FILE NOT FOUND" << endl;
44      }
45
46      tree *showDataBase = new tree;
47
48      while (true)
49      {
```

```cpp
50          string line;
51          show *newShow = new show;
52
53          if (!getline(fin, line)) break;
54          if (line.compare("") == 0) continue;
55
56          newShow->parseNameAndDates(line);
57
58          if (!getline(fin, line)) break;
59          newShow->parseCategory(line);
60
61          if (!getline(fin, line)) break;
62          newShow->parseURL(line);
63
64          while (getline(fin, line))
65          {
66              if (line.compare("") == 0) break;
67              newShow->parseActor(line);
68          }
69
70          //newShow->printShow();
71
72          showDataBase->addToTree(newShow);
73      }
74
75      //showDataBase->displayAll();
76      cout << "Display all shows in the tree (only the titles!)" << endl;
77      showDataBase->displayAllTitles();
78      cout << endl;
79
80      cout << "Display all actors of a given show in the tree: The Saint, Benson, ⏎
           Dexter's Laboratory, Matlock, Futurama" << endl;
81      showDataBase->displayActorsByShowName("The Saint");
82      showDataBase->displayActorsByShowName("Benson");
83      showDataBase->displayActorsByShowName("Dexter's Laboratory");
84      showDataBase->displayActorsByShowName("Matlock");
85      showDataBase->displayActorsByShowName("Futurama");
86      cout << endl;
87
88      cout << "Display all shows of a given actor : Nancy Cartwright, Marcia     ⏎
           Wallace, Bill Daily, Joe Penny, John DiMaggio, Ron Howard." << endl;
89      showDataBase->displayShowsByActorName("Nancy Cartwright");
90      showDataBase->displayShowsByActorName("Marcia Wallace");
91      showDataBase->displayShowsByActorName("Bill Daily");
92      showDataBase->displayShowsByActorName("Joe Penny");
93      showDataBase->displayShowsByActorName("John DiMaggio");
94      showDataBase->displayShowsByActorName("Ron Howard");
95      cout << endl;
96
```

```cpp
 97      cout << "Display all shows released between 1965 and 1975, 2000 and 2010."
            << endl;
 98      showDataBase->displayShowsByDateRange(1965, 1975);
 99      showDataBase->displayShowsByDateRange(2000, 2010);
100      cout << endl;
101
102
103      fin.close();
104      return 0;
105  }
106
107
```