```
// Program SumDigits.cpp prompts for and reads a one-digit number.
// Values between 0 and the digit (inclusive) are summed.
#include <iostream>
using namespace std;
int main ()
    int counter;// loop-control variable
    int sum;
                     // running sum
   int digit;
    cout << "Enter a one-digit number; press return."</pre>
       << endl;
    cin >> digit;
    counter = /* TO BE FILLED IN */
            /* TO BE FILLED IN */
    sum =
   while (
                     )
                              /* TO BE FILLED IN */
                              /* TO BE FILLED IN */
    cout << "Sum of digits between 0 and "</pre>
       << digit << " is " << sum << endl;
       system("PAUSE");
    return 0;
}
// Program Shell1.cpp counts the number of uppercase letters on a line.
// The line must end with a period
#include <iostream>
using namespace std;
int main ()
    char letter;
   int letterCt=0;
    cout<<"Type in a bunch of characters ending with a period."<<endl;</pre>
    cin>>letter;
   while (
                          ) /* TO BE FILLED IN */
                           /* TO BE FILLED IN */
    cout<<"For the characters entered the number of uppercase letters is
"<<letterCt<<endl;
    system("PAUSE");
   return 0;
}
// Program CountMarks.cpp counts punctuation marks in a file.
#include <iostream>
#include <fstream>
using namespace std;
```

```
int main ()
 ifstream inData;
 char symbol;
 int periodCt = 0;
 int commaCt = 0;
 int questionCt = 0;
 int colonCt = 0;
 int semicolonCt = 0;
 inData.open("switch.dat");
 /* FILL IN */
 system("PAUSE"
 return 0;
}
/*data file switch.dat contains
There are lots of symbols in this file: ..;;??
.,.,.,?:::
//****************
// This program NotEqual.cpp counts the occurrences of "!=" in a data file
//*******************
#include <iostream>
#include <fstream>
                           // For file I/O
using namespace std;
int main()
                          // Number of != operators
       count;
 int
 char prevChar;
                          // Last character read
                           // Character read in this iteration
 char currChar;
                           // Data file
 ifstream inFile;
 inFile.open("myfile.dat"); // Attempt to open file
 if (!inFile)
  { // If file wouldn't open, print message, terminate program
   cout << "Can't open input file" << endl;</pre>
   return 1;
  }
                            // Initialize counter
 count = 0;
                          // Initialize previous value
 inFile.get(prevChar);
 inFile.get(currChar);
                           // Initialize current value
 while (inFile)
                           // While input succeeds . . .
   if (currChar == '=' &&
                           // Test for !=
      prevChar == '!')
     count++;
                            // Increment counter
   prevChar = currChar;
                           // Update previous value to current
                           // Get next value
   inFile.get(currChar);
 cout << count << " != operators were found." << endl;</pre>
 system("PAUSE");
 return 0;
contents of myfile.dat
<= !!! === != ! = !=
```