```
1 /**
 2 if arg1 < arg2 returns a negative number</pre>
 3 if arg1 > arg2 returns a positive number
 4 if arg1 == arg2 returns zero
 5 */
 6
 7 ////
 8 // Name: Nancy Programmer
 9 // Section: A, B, or S
10 // Program Name: MYString Tester
11 //
12 // Description: A brief description of the program. What does the
13 // program do (not how it does it: for example, it uses loops)? Does
14 // the program get input? What kind? What information is output
15 // from the program and to where (screen or file)
16 ////
17
18 #include <iostream>
19 #include <fstream>
20 #include <vector>
21 #include <iomanip>
22 #include "JCString.h"
23 #include <iostream>
24
25 using namespace std;
26 vector<JCString> vectorSort(const vector<JCString>& wordVec);
27
28 int main()
29 { // This is a vector of Jeff Strings we need to implement
       vector<JCString> words(100);
                                        // calls default constructor 100 times
       ifstream fin("infile2.txt");
31
32
33
     // READ
       if (fin.fail()) {
34
           cout << "Couldn't open infile2.txt" << endl;</pre>
35
```

```
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```

```
2
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```
system("pause");
36
37
          exit(1);
      }
38
39
      int wordCnt = 0;
40
      41
          //cout << words[wordCnt].c_str() << '\t'; // for verifying input</pre>
42
      }
43
      words.resize(wordCnt);
                              //shrink vector to size used
44
45
46
      // SORT
      vector<JCString> sortedVec = vectorSort(words);
47
48
      ofstream outfile("outfile1.txt", ios::app);
49
50
51
      if (!outfile)
52
          cout << "Error Opening File" << endl;</pre>
53
54
          return 1;
55
      }
56
      int line = 0;
57
      for (JCString str : sortedVec)
58
59
          outfile << setw(13);</pre>
60
61
          str.write(outfile);
62
          line++;
63
          if (line % 6 == 0)
64
65
66
              outfile << endl;</pre>
          }
67
68
      }
69
70
```

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3
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```
outfile.close();
 71
 72
 73
        return 0;
        // OUTPUT
 74
 75
 76
 77 }
 78
 79 vector<JCString> vectorSort(const vector<JCString> &wordVec)
 80 {
 81
        bool notDone = false;
        int i = 0;
 82
        vector<JCString> sortedVec = wordVec;
 83
 84
        do {
 85
 86
            notDone = false;
            for (i = 0; i < sortedVec.size() - 1; i++)</pre>
 87
 88
                //greater means it comes later in the alphabet to sort things
 89
                // we put greater ones futher up futher in the vector
 90
 91
                if ( sortedVec.at(i + 1).lessThan(sortedVec.at(i)) )
 92
                {
                    JCString holder = sortedVec.at(i);
 93
                    sortedVec[i] = sortedVec[i + 1];
 94
                    sortedVec[i + 1] = holder;
 95
                    notDone = true;
 96
                }
 97
            }
 98
 99
        } while (notDone);
100
101
102
        return sortedVec;
103 }
104
105
```

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4
```