C:\Users\brynl\Documents\Semester2\ComputerScie...nts\Class Assignment 2\program3\driverfile.cpp Page 1 of 1 4/8/2018 12:39:02 PM

```
1
     #include <string>
 2
     #include <iostream>
 3
     #include <algorithm>
     #include <fstream>
 4
     #include <iomanip>
 5
 6
     #include <queue>
 7
 8
     using namespace std;
 9
10
     struct bryntype {
11
         int numberofmajors;
12
         string fieldofstudy;
13
     };
14
15
     int main() {
16
     ifstream inf;
17
     ofstream outf;
18
     inf.open("datafile.txt");
19
     outf.open("outputfile.txt");
20
     queue < bryntype > intstringqueue;
21
     bryntype classdata;
22
     while (!inf.eof()){
23
         inf >> classdata.numberofmajors >> classdata.fieldofstudy >> ws;
24
         intstringqueue.push(classdata);
25
26
     while (!intstringqueue.empty()) {
27
         outf << setw(12) << left << intstringqueue.front().fieldofstudy << " " <<
                                                                                                 Z
         intstringqueue.front().numberofmajors << endl;</pre>
28
         intstringqueue.pop();
29
     }
30
     outf << endl;
     system("pause");
31
32
     }
33
34
35
```