C:\Users\brynl\Documents\Semester2\ComputerScie...nts\Class Assignment 2\program3\driverfile.cpp Page 1 of 1 4/9/2018 10:19:13 PM

```
1
     #include <string>
 2
     #include <iostream>
 3
     #include <algorithm>
     #include <fstream>
 4
 5
     #include <iomanip>
 6
     #include <queue>
 7
 8
     using namespace std;
 9
     struct bryntype {
10
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()){
         inf >> classdata.numberofmajors >> classdata.fieldofstudy >> ws;
23
24
         intstringqueue.push(classdata);
25
     }
26
     outf << "Number of elements in queue: " << intstringqueue.size() << endl;</pre>
27
     outf << "Elements in queue: " << endl;</pre>
28
     while (!intstringqueue.empty()) {
29
         outf << setw(12) << left << intstringqueue.front().fieldofstudy << " " <<</pre>
                                                                                                  ₽
         intstringqueue.front().numberofmajors << endl;</pre>
30
         intstringqueue.pop();
31
     }
32
     outf << endl;
33
     system("pause");
34
     }
35
36
37
```