```
* - domesticstudent.cpp -
 3
     * ENSC 251 - Lab Assignment 2
     * May 31, 2019
 4
 5
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     * /
8
9
    // make sure to include the hpp file for the declarations; this file will be
10
    // actually implementing the functions in the class
11
    #include "domesticstudent.hpp"
12
13
     using namespace std;
14
     // ********************* DomesticStudent Class ************** //
15
16
17
     // define implementations for the get and set functions
18
    string DomesticStudent::getProvince() const
19
20
         return this->province;
21
22
23
    void DomesticStudent::setProvince(string s)
24
25
         this->province = s;
26
27
28
    // define implementations for custom operators
29
30
    ostream& operator << (ostream& outs, const DomesticStudent &object)
31
32
         outs << setw(14) << left << object.getFirstName() << " " << setw(18) << left <<
         object.getLastName();
33
         outs << setw(10) << left << object.getProvince();</pre>
34
         outs << setw(6) << left << object.getCGPA();</pre>
35
         outs << setw(4) << left << object.getResearchScore() << endl;</pre>
36
         return outs;
37
     }
38
39
     istream& operator >> (istream &ins, DomesticStudent &object)
40
41
         string s tmp;
42
         getline(ins, s tmp, ',');
43
        object.setFirstName(s tmp);
44
        getline(ins, s tmp, ',');
45
        object.setLastName(s_tmp);
46
         getline(ins, s tmp, ',');
47
         object.setProvince(s tmp);
         getline(ins, s_tmp, ',');
48
         object.setCGPA(atof(s_tmp.c_str()));
49
50
         getline(ins, s tmp, ',');
51
         object.setResearchScore(atoi(s tmp.c str()));
52
         return ins;
53
     }
54
55
     // default constructor, initialize strings to ""
56
    DomesticStudent::DomesticStudent()
57
58
         this->setProvince("");
59
60
     // ******** Friend functions of DomesticStudent Class *********** //
61
62
63
     int compareCGPA(DomesticStudent student1, DomesticStudent student2)
64
65
         return compareTwoNumbers(student1.getCGPA(), student2.getCGPA());
66
67
68
     int compareResearchScore(DomesticStudent student1, DomesticStudent student2)
```

```
69
70
        return compareTwoNumbers(student1.getResearchScore(), student2.getResearchScore());
71
72
73
    int compareFirstName(DomesticStudent student1, DomesticStudent student2)
74
75
        return compareTwoStrings(student1.getFirstName(), student2.getFirstName());
76
    }
77
78
    int compareLastName(DomesticStudent student1, DomesticStudent student2)
79
80
        return compareTwoStrings(student1.getLastName(), student2.getLastName());
81
     }
82
```