```
* - student.cpp -
 3
     * ENSC 251 - Lab Assignment 2
     * May 31, 2019
 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 "student.hpp"
12
13
    using namespace std;
14
15
     // ************ Student Class *********** //
16
17
    // define implementations for the get and set functions
18
    string Student::getFirstName() const
19
20
         return this->firstName;
21
     }
22
23
    void Student::setFirstName(string s)
24
25
         this->firstName = s;
26
27
28
    string Student::getLastName() const
29
30
        return this->lastName;
31
32
33
   void Student::setLastName(string s)
34
35
         this->lastName = s;
36
37
38
    float Student::getCGPA() const
39
40
        return this->CGPA;
41
    }
42
43
   void Student::setCGPA(float c)
45
         this->CGPA = c;
46
    }
47
48
    int Student::getResearchScore() const
49
50
        return this->researchScore;
51
    }
52
53
   void Student::setResearchScore(int rs)
54
55
         this->researchScore = rs;
56
57
58
    // default constructor, initialize ints/floats to 0.0 and strings to ""
59
    Student::Student()
60
61
         this->setFirstName("");
62
        this->setLastName("");
63
        this->setCGPA(0.0);
64
         this->setResearchScore(0);
65
66
     // ******************* Common functions used by both DomesticStudent and
67
     InternationalStudent **************** //
68
```

```
69
   int compareTwoNumbers(int n1, int n2)
70
71
         if (n1 > n2) return 1;
72
         if (n1 < n2) return -1;</pre>
73
         return 0;
74
     }
75
76
    int compareTwoNumbers(float n1, float n2)
77
78
         if (n1 > n2) return 1;
79
         if (n1 < n2) return -1;</pre>
80
         return 0;
81
     }
82
83
     int compareTwoStrings(string s1, string s2)
84
     {
         for (int i = 0; i < s1.size(); i++) if (s1[i] >= 'a' && <math>s1[i] <= 'z') s1[i] -= ('a'-
85
         'A');
86
         for (int i = 0; i < s2.size(); i++) if (s2[i] >= 'a' && <math>s2[i] <= 'z') s2[i] -= ('a'-
         'A');
87
         return s1.compare(s2);
88
     }
89
```