```
2 * AUTHOR : Andrew Gharios and Jiaqi Li
3* STUDENT ID : 1449366 and 1220875
4* LAB # 15 : Advanced selection in C++
         : CS1A
5 * CLASS
6 * SECTION
         : MW: 8am
7 * DUE DATE : 4/19/21
9#include <iostream>
10 #include <iomanip>
11 #include <cstring>
12 using namespace std;
13
14
15 int main()
16 {
    /***********************************
17
    * CONSTANTS
18
19
20
    * OUTPUT - USED FOR CLASS HEADING
    * ______
21
    * PROGRAMMER : Programmer's Name
22
    * CLASS : Student's Course
23
    * SECTION
             : Class Days and Times
24
    * LAB_NUM : Lab Number (specific to this lab)
25
    * LAB_NAME : Title of the Lab
* PROBLEM : Problem number.
26
27
    28
29
    const char PROGRAMMER[] = "Andrew Gharios and Jiaqi Li";
30
    const char CLASS[] = "CS1A";
31
    const char SECTION[] = "MW 8:00a - 10:30a";
32
33
    const int LAB_NUM
                   = 15;
34
    const char LAB_NAME[] = "Advanced selection in C++";
    const int PROB_NUM
35
                    = 4;
36
37
38
    char classCode;
39
    bool invalid;
40
    41
    * OUTPUT - Class Heading
42
    43
44
    cout << left;</pre>
    45
    cout << "* PROGRAMMED BY : " << PROGRAMMER << endl;</pre>
46
    47
48
    cout << "* LAB #" << setw(9) << LAB_NUM << ": " << LAB_NAME << end1;
49
    50
    cout << "*******************************
n\n";</pre>
51
52
    cout << right;</pre>
53
54
55
    do
    { //do while
56
57
      cout << "Please enter the letter: ";</pre>
58
      cin >> classCode;
59
      classCode = toupper(classCode);
60
            = classCode != 'F' &&
               classCode != 'S' &&
61
               classCode != 'J' &&
62
```

```
Saturday, April 17, 2021, 11:01 AM
main.cpp
63
                       classCode != 'R';
64
          if (invalid)
65
66
               cout << classCode << " is an invalid input - Please try again!";</pre>
67
               cout << endl;</pre>
68
          }
69
70
      }while(invalid); //do while
71
      cout << classCode << " is valid - Thank you!";</pre>
72
73
      return 0;
74
75 } //all
76
```