```
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
24
            : Class Days and Times
    * 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
                 = "CS1A";
   const char CLASS[]
31
                 = "MW 8:00a - 10:30a";
   const char SECTION[]
32
33
   const int LAB_NUM
                  = 15;
34
   const char LAB_NAME[] = "Advanced selection in C++";
35
   const int PROB_NUM
                  = 5;
36
37
   const int STRN_SIZE = 30;
38
39
   int rank;
40
   char output[STRN SIZE];
41
    42
43
    * OUTPUT - Class Heading
    44
45
    cout << left;</pre>
   46
   cout << "* PROGRAMMED BY : " << PROGRAMMER << endl;</pre>
47
   48
49
   cout << "* LAB #" << setw(9) << LAB_NUM << ": " << LAB_NAME << endl;
50
   cout << "* " << setw(14) << "PROBLEM " << ": " << PROB_NUM << endl;
51
   52
53
   cout << right;</pre>
54
55
    56
57
    * Code - Code takes in your rank number and compares it to the classes
58
    * using the conditional operator and outputs your rank class.
    59
60
   cout << "Enter your rank number(-1 to exit): ";</pre>
61
   cin >> rank;
   cin.ignore(10000, '\n');
62
```

```
main.cpp
63
64
      while(rank > -1)
65
           (rank <= 3)? strncpy(output, "Lower", STRN_SIZE)</pre>
66
                      : (rank >= 7)? strncpy(output, "Upper", STRN_SIZE)
67
                      : strncpy(output, "Middle", STRN_SIZE);
68
69
           cout << output << end1;</pre>
70
71
          cout << "Enter your rank number(-1 to exit): ";</pre>
72
          cin >> rank;
          cin.ignore(10000, '\n');
73
74
75
76
      return 0;
```