```
 1 ******************************************************
 2 *  PROGRAMMED BY :  Blake Allard , Pierre Elyass
 3 *  CLASS         :  CS1A
 4 *  SECTION       :  M/W: 8am
 5 *  LAB #10       :  Selection: Flo's Party Planner
 6 ******************************************************
 7
 8 What is your friend's name?     Kris Kryzmarcik
 9 How old is your friend?         5
10 Do they like chocolate? (Y/N)?  Y
11 Do they like nuts (Y/N)?        Y
12
13 Kris Kryzmarcik should be served Peanut M & M's and juice.
14
15
16 What is your friend's name?     Barbara Piracci
17 How old is your friend?         3
18 Do they like chocolate? (Y/N)?  N
19
20 Barbara Piracci should be served Skittles and juice.
21
22
23 What is your friend's name?     Pricilla White
24 How old is your friend?         1
25 Do they like chocolate? (Y/N)?  Y
26 Do they like nuts (Y/N)?        N
27
28 Pricilla White should be served M & M's and juice.
29
30
31 What is your friend's name?     Pat Macy
32 How old is your friend?         6
33 Do they like chocolate? (Y/N)?  Y
34 Do they like nuts (Y/N)?        Y
35
36 Pat Macy should be served Peanut M & M's and soda.
37
38
39 What is your friend's name?     Donna Shaffer
40 How old is your friend?         18
41 Do they like chocolate? (Y/N)?  N
42
43 Donna Shaffer should be served Skittles and soda.
44
45
46 What is your friend's name?     Al Thompson
47 How old is your friend?         20
```

```
48 Do they like chocolate? (Y/N)?  Y
49 Do they like nuts (Y/N)?        N
50
51 Al Thompson should be served M & M's and soda.
52
53
54 What is your friend's name?     Jan Rawson
55 How old is your friend?         26
56 Do they like chocolate? (Y/N)?  Y
57 Do they like nuts (Y/N)?        Y
58
59 Jan Rawson should be served Peanut M & M's and wine.
60
61
62 What is your friend's name?     Jennie Thompson
63 How old is your friend?         32
64 Do they like chocolate? (Y/N)?  N
65
66 Jennie Thompson should be served Skittles and wine.
67
68
69 What is your friend's name?     Anne Graves
70 How old is your friend?         21
71 Do they like chocolate? (Y/N)?  Y
72 Do they like nuts (Y/N)?        N
73
74 Anne Graves should be served M & M's and wine.
```

```cpp
/*****************************************************************************
* AUTHORS      : Blake Allard , Pierre Elyass
* STUDENT IDs  : 358888       , 1273521
* LAB #11      : Selection: Flo's Party Planner
* CLASS        : CS1A
* SECTION      : M/W 8am
* DUE DATE     : 10/18/24
*****************************************************************************/

#include <iostream>       /* cout, cin, .get */
#include <iomanip>        /* setw            */
#include <cstring>
using namespace std;

/*****************************************************************************
* Party Planner
*_____________________________________________________________________________
*
* This program helps Florence decide which snacks and beverages to serve her
* friends using selection statements to determine the proper snack and
* beverage recommendations the program with make.
*-----------------------------------------------------------------------------
* INPUT:
*   name             : The user’s name.
*   age              : The user's age
*
* OUTPUT:
*   candy            : User's determined candy
*   drink            : User's determined drink
*
*-----------------------------------------------------------------------------
* EXAMPLE INPUT / OUTPUT:
* What is your friends name?     Kris Kryzmarcik
* How old is your friend?        5
* Do they like chocolate? (Y/N)? Y
* Do they like nuts? (Y/N)?      Y
*
*  Kris Kryzmarcik should be served Peanut M & M’s and juice.
*
*****************************************************************************/

int main()
{

    // OUTPUT - USED FOR CLASS HEADING
    const char PROGRAMMER[]      = "Blake Allard , Pierre Elyass";
    const char CLASS[]           = "CS1A";
```

```
48      const char SECTION[]         = "M/W: 8am";
49      const int  LAB_NUM           = 10;
50      const char LAB_NAME[]        = "Selection: Flo's Party Planner";
51
52      // C-STRING SIZE
53      const int  NAME_SIZE         = 25;
54      const int  COL_SIZE          = 32;
55      // C-STRING AGES
56      const int  KIDS              =  5;
57      const int  TEEN              = 20;
58      const int  ADULT             = 21;
59      // C-STRING FOOD & BEV SIZE
60      const int  BEVRAGES          = 13 ;
61      const int  SWEETS            = 20 ;
62      // C-STRING BEVERAGE CHOICES
63      const char JUICE[BEVRAGES]   = "juice";
64      const char SODA[BEVRAGES]    = "soda";
65      const char WINE[BEVRAGES]    = "wine";
66      // C-STRING SNACK CHOICES
67      const char SKITTLES[SWEETS]  = "Skittles";
68      const char MNMS[SWEETS]      = "M & M\'s";
69      const char PEANUT[SWEETS]    = "Peanut M & M\'s";
70
71      /*****************************************************************
72      * VARIABLES
73      *****************************************************************/
74      char name[NAME_SIZE];    // IN    & OUTPUT     - The user's name
75      int  age;                // IN    &            - The user's age
76      char likesChocolate;     // IN    & PROCESSING - If the user likes chocolate
77      char likesNuts;          // IN    & PROCESSING - If the user likes nuts
78      char drinks[BEVRAGES];   //         PROCESSING - If
79      char candy [SWEETS];     // INPUT & PROCESSING -
80
81
82      /*****************************************************************
83      * OUTPUT - class heading
84      *****************************************************************/
85      cout <<  left;
86      cout <<  "*******************************************************\n";
87      cout <<  "*  PROGRAMMED BY :  "<< PROGRAMMER                     << endl;
88      cout <<  "*  "      << setw(14)<< "CLASS"   << ":  " << CLASS    << endl;
89      cout <<  "*  "      << setw(14)<< "SECTION" << ":  " << SECTION  << endl;
90      cout <<  "*  LAB #" << setw(9) << LAB_NUM   << ":  " << LAB_NAME << endl;
91      cout <<  "*******************************************************\n\n";
92      cout <<  right;
93
94      /*****************************************************************
```

```
 95     * INPUT - this will read from the user:
 96     *                                      - The user's name
 97     *                                      - The user's age
 98     *                                      - If the user likes chocolate
 99     *                                      - If the user likes nuts (depending
100     *                                        on if the like nuts
101     ********************************************************************/
102     cout << left;
103
104     cout << setw(COL_SIZE)    << "What is your friend\'s name? ";
105     cin.getline (name, NAME_SIZE);
106
107     cout << setw(COL_SIZE)    << "How old is your friend? " ;
108     cin  >> age;
109     cin.ignore(1000, '\n');
110
111     cout << right;
112
113     /********************************************************************
114      * PROCESSING - user's inputed age will determine beverage appropriate drink
115     ********************************************************************/
116     if (age <= KIDS)
117     {
118         strncpy(drinks, JUICE, BEVRAGES) ;
119     }
120     else
121     {
122         if (age <= TEEN)
123         {
124             strncpy(drinks, SODA, BEVRAGES) ;
125         }
126         else
127
128             strncpy(drinks, WINE, BEVRAGES) ;
129     }
130
131 //  cerr << "BEGIN TEST\n";
132 //  cerr << "age: "    << age    << endl;
133 //  cerr << "drinks: " << drinks << endl;
134 //  cerr << "END TEST\n";
135
136     cout << left;
137
138     cout << setw(COL_SIZE)    << "Do they like chocolate? (Y/N)? " ;
139     cin.get (likesChocolate);
140     cin.ignore(1000,'\n');
141     likesChocolate = toupper(likesChocolate);
```

```
142
143     if (likesChocolate == 'Y')
144         {
145     cout << setw(COL_SIZE)    << "Do they like nuts (Y/N)? " ;
146             cin.get(likesNuts);
147             cin.ignore(1000,'\n');
148             likesNuts = toupper(likesNuts);
149
150             if (likesNuts == 'Y')
151                 {
152                 strncpy(candy, PEANUT, SWEETS) ;
153                 }
154
155                 else
156                 {
157                     strncpy(candy, MNMS, SWEETS) ;
158                 }
159         }
160     else
161         {
162         strncpy(candy, SKITTLES, SWEETS) ;
163                 likesNuts = 'x';
164
165
166
167         }
168
169     cout << endl;
170     cout << right;
171
172
173 //          cerr << "BEGIN TEST\n";
174 //          cerr << "likesChocolate: "    << likesChocolate    << endl;
175 //          cerr << "likesNuts: "         << likesNuts         << endl;
176 //          cerr << "candy: "             << candy             << endl;
177 //          cerr << "END TEST\n";
178 //          cout << endl;
179
180     /*************************************************************************
181      * OUTPUT - This will output:
182      *                              - The user's name
183      *                              - The user's matching snack
184      *                              - The user's matching drink
185      ************************************************************************/
186
187     cout << name << " should be served " << candy << " and " << drinks << ".";
188
```

```
189
190
191
192
193     return 0;
194
195     }
196
```