```
 1 #include <iostream>
 2
 3 using namespace std;
 4
 5
 6 void user_info() {
 7     cout << "\tAuthor: James Abreu." << endl;
 8     cout << "\t" << __DATE__ << endl;
 9     cout << "\t" << __TIMESTAMP__ << endl;
10     cout << endl;
11 }
12
13 int main() {
14     user_info();
15     cout << "Average Rain Fall Calculator." << endl;
16
17     /*
18      * ================================================================================
   ================
19      */
20     take_year:
21     cout << "Enter the number of years worth of information: ";
22     unsigned year{1};
23     cin >> year;
24
25     if (year < 1) {
26         if (year == 0) {
27             cout << "No data entries." << endl;
28             return 0;
29         } else if (year < 0) {
30             cout << "The year cannot be less than zero. " << endl;
31             cout << "Try again." << endl;
32             goto take_year;
33         }
34     }
35
36     string current_month[12]{
37             "January",
38             "February",
39             "March",
40             "April",
41             "May",
42             "June",
43             "July",
44             "August",
45             "September",
46             "October",
47             "November",
48             "December"
49     };
50
51     unsigned length_of_year{12};
52     float total_rain{0};
53     unsigned month{12};
54     unsigned index{0};
55     for (unsigned y = 1; y <= year; y++) {
56         for (unsigned m = 1; m <= month; m++) {
57             cout << "Enter the total number of rain in month: " <<
   current_month[index] << endl;
58             float rain_in_inches{0};
```

```
59              cin >> rain_in_inches;
60
61              if (index == length_of_year) {
62                  index = 0;
63              }
64
65              if (rain_in_inches < 0) {
66                  cout << "Rain cannot be less than zero" << endl;
67                  return -1;
68              }
69
70              total_rain += rain_in_inches;
71              index++;
72          }
73
74          if (y == year) {
75              break;
76          }
77      }
78
79      cout << "Months: " << month * year << endl;
80      cout << "Total Rain: " << total_rain << endl;
81      cout << "Average per month: " << total_rain / month << endl;
82
83      return 0;
84  }
```