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1 //Edward Bates emb160030 CS 1337.002 Homework 5
2 #include <iostream>
3 #include <string.h>
4 #include <stdio.h>
5 using namespace std;
6 bool verify(char password[]){
7
8     if(strlen(password) < 6){
9         cout << "password must be atleast 6 characters";
10        return false;
11    }
12    if(strlen(password) > 14){
13        cout << "password must be less than 14 characters";
14        return false;
15    }
16    bool cUpper;
17    bool cLower;
18    bool cDigit;
19    bool cPunc;
20    for(int i = 0; i < strlen(password); i++){
21        if(isupper(password[i]))
22            cUpper = true;
23        if(islower(password[i]))
24            cLower = true;
25        if(isdigit(password[i]))
26            cDigit = true;
27        if ispunct(password[i])
28            cPunc = true;
29    }
30    if(!cUpper){
31        cout << "Password must contain 1 Uppercase character";
32        return false;
33    }
34    if(!cLower){
35        cout << "Password must contain 1 Lowercase character";
36        return false;
37    }
38    if(!cDigit){
39        cout << "Password must contain 1 Digit character";
40        return false;
41    }
42    if(!cPunc){
43        cout << "Password must contain 1 Punctuation character";
44        return false;
45    }
46    return true;
47 }
48 int main()
49 {
50     char first[13];
51     char last[13];
52     char middle[13];
53     cout << "Enter you first middle and last name space separated. (Up to 12 chars each)";
54     cin >> first;
55     cin >> middle;
56     cin >> last;
57
58     char* dFull = new char[strlen(first) + strlen(middle) + strlen(last) + 5];
59     strcpy(dFull, last);
60     strcat(dFull, " ");
61     strcat(dFull, first);
62     strcat(dFull, " ");
63     strcat(dFull, middle);
64     cout << endl; cout << endl;
65     puts(dFull);
66     cout << endl; cout << endl;
67
68     cin.ignore(256, '\n');
69     bool goodPass = false;
70     while(!goodPass)
71     {
72         cout << "\nEnter a password";
73         char password[16];
74         cin.getline(password, 15);
75         goodPass = verify(password);
76     }
77     cout << "Password is Valid";
78     return 0;
79 }
80

```