Homework2

All the following assignments are selected from Gaddis edition 7. The purpose is that you remind basics of programming in C++ from CS I. If you cannot answer a question easily, read the sections above it.

1. Check point 2.3 [1 point]
2. Check point 3.9 [1 point]
3. Programming challenge 9.1. Use a **binary search** NOT a linear search [2 points]

2.3   The following cout statement contains errors.

```
cout << "red /n" << "blue \ n" << "yellow" \n << "green";
```

3.9   In each of the following cases, tell which operator has higher precedence or whether they have the same precedence.

   A) + and *
   B) * and /
   C) / and %

1. Charge Account Validation

Write a program that lets the user enter a charge account number. The program should determine if the number is valid by checking for it in the following list:

5658845	4520125	7895122	8777541	8451277	1302850
8080152	4562555	5552012	5050552	7825877	1250255
1005231	6545231	3852085	7576651	7881200	4581002

Initialize a one-dimensional array with these values. Then use a ~~simple linear~~ binary search to locate the number entered by the user. If the user enters a number that is in the array, the program should display a message saying the number is valid. If the user enters a number not in the array, the program should display a message indicating it is invalid.