Homework 6

Due date: April 23

Modify your ContactBook class so that it will now store a dynamic array of pointers to Contact objects. A ContactBook is identified by an owner (last name and first name of the owner). This homework assignment will also help build towards project 1, which will be to write a program implementing a Management System for a Personal Contact Book. The array must have the ability to grow if it reaches the capacity (for that provide a private function grow ()). Modify your functions to add new contacts to a list, delete old contacts, update existing contacts, search for a contact, display the entire contact list, >>, and << operators to reflect the changes. Include the "big-three" that are needed when there is a dynamic allocation within a class. As in homework 4 you will have functions that will give you size of the list, get particular contact at a particular index location. In addition you can provide a function to get the capacity of the list.

Modify your driver program that will be a menu driven application. As before, the program will create a single ContactBook which is empty in the main program.

A menu will have the following options:
1) Add New Contact
2) Delete Old Contact
3) Display Contact Info (contact is identified by last name and first name)
4) Update Contact Info (contact is identified by last name and first name)
5) Display Entire Contact List
6) Exit