

Homework 6

Due date: May 1

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