

Assignment 5: Address Book

The goal for this assignment is to create an Address book program with (at a minimum) - the following features:

- An address must contain at least the first name and last name of a person.
- You must be able to insert an address into the address book.
- You must be able to search for an address by last name in the address book, and you must be able to find at least one occurrence of that address in case there are one or more in the address book.
- You must be able to delete the address that a user has searched for previously, if one was found.
- You must be able to display the entire address book

Optionally, your address book could, but does not have to, support the following features

- An address can contain more fields, perhaps for street, city, zip code, phone number, email address, etc.
- You should be able to find all occurrences of an address, if there are several (for example, find all addresses of people with last name "Wachsmuth").
- You should be able to save your address book data.
- You should be able to retrieve the data you have previously saved.

You can assume that all interactions with the program is through command line interface. Your program will prompt user what to do next. Your implementation should use C++ classes and can handle multiple entries. Some member function may be:

```
int addAddress(...)
int delAddress(...)
void showAddressBook(...)
int findLastName(...)
void showMenu(...)
char getChoice(void)
```

Example when running the program may look like:

Please choose one from following options:

- 1) add an address;
- 2) delete an address;
- 3) show all addresses;
- 4) find by person's last name;
- 5) exit.

Type [1-5]: 1

Enter first name: Hugh

Enter last name: Grant

Address: 800 Sunset Blvd., Orange County, CA 93100.

Hugh Grant is successfully entered.

Type [1-5]: 3

Addresses are:

800 Sunset Blvd., Orange County, CA 93100.

Type [1-5]: 5

Program exits.