

Assignment

Use STL vector to create an address book. There are two entries for each person: name and address. You will use two vectors: one vector for names, the other vector for addresses. The elements of the vectors are corresponding with each other. For example, the person whose name is stored in `name[1]` will have its address stored in `address[1]`.

Your program will ask user to enter the name and information of each person; display the address book as a table; sort the names in ascending order (and address vector too); then display the sorted address book. I.E.

- 1) Enter names and addresses
- 2) display the address book as a table
- 3) sort the names in ascending order (addresses accordingly)
- 4) display the sorted address book as a table

Use functions for each task. For example:

```
enter_data()
display_address()
sort_name_address()
```

Notes: Use program 8-7, page 485, as an example.

An example of program output

```
How many names will be in the address book? 4
Enter a name: George Brown
Enter the address: 123 Kings Canyon Rd, Clovis CA
Enter a name: J. J. Smith
Enter the address: 512 Fresno St., Fresno CA
Enter a name: Nancy Drew
Enter the address: 91 Thomas Ave., Minneapolis MN
Enter a name: Bobby Chin
Enter the address: 999 Reed Ave., Reedley CA
```

	Name	Address
1	George Brown	123 Kings Canyon Rd, Clovis CA
2	J. J. Smith	512 Fresno St., Fresno CA
3	Nancy Drew	91 Thomas Ave., Minneapolis MN
4	Bobby Chin	999 Reed Ave., Reedley CA

Sorted...

	Name	Address
1	Bobby Chin	999 Reed Ave., Reedley CA
2	George Brown	123 Kings Canyon Rd, Clovis CA
3	J. J. Smith	512 Fresno St., Fresno CA
4	Nancy Drew	91 Thomas Ave., Minneapolis MN

Press any key to continue...

Submission

On CANVAS, submit your program (cpp file) and program output; three test cases.