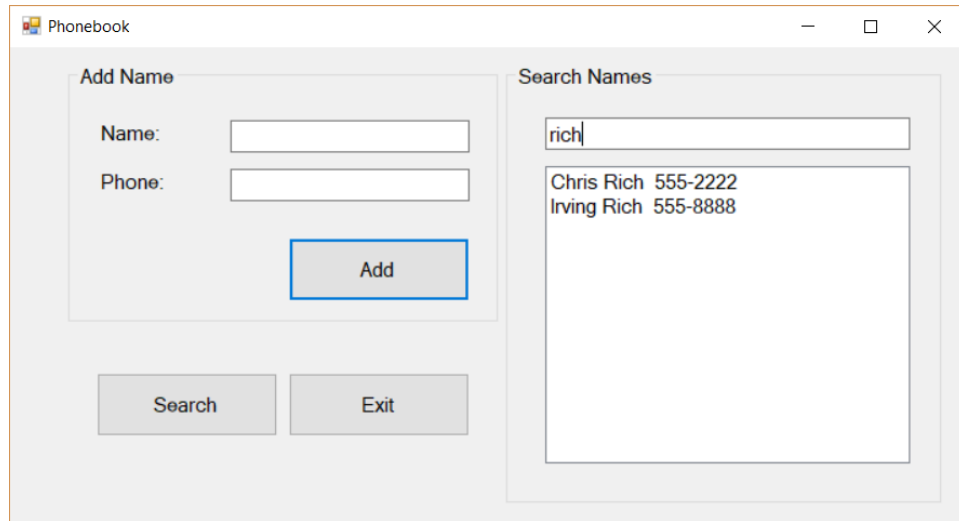


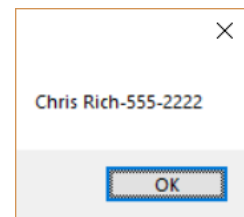
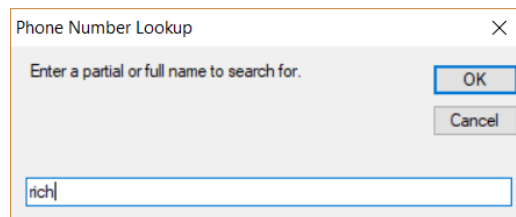
# Phonebook Exercise

Create a phonebook application to store and look up names and phone numbers.



The *Add* button adds the name and phone number provided in the *TextBox* controls to the end of two parallel arrays. Any number of names and numbers may be added.

The *Search* button uses an *InputBox* like the following to get a name from the user. A *sequential search* (p. 521) is used to look up the name in the array. If found, the first matching name and its phone number appear in a message box similar to the following. When the search fails, a single "Not Found" message appears.



The *Search Names* region on the right duplicates the functionality of the *Search* button, but can display more than one matching search result. It uses the *TextChanged* event of the *TextBox* to display the names and phone numbers of all matching names in the *ListBox* as the name is typed by the user.

For an added challenge (not required), allow for partial and case sensitive searching, as illustrated. For yet another challenge, include a button that empties the phone book of all names and numbers.