CallingContact ()

```
Prompt user for contact name (Firstname Lastname)
```

if user input is not null then

Display "Calling <name>"

end if

end

SaveContact ()

Prompt user for contact name (Firstname Lastname)

Prompt user for contact phone number (e.g., +264 815945484)

if both name and number are not null then

Create new contact (name, number)

if contact list is empty (head is null) then

Set head to new contact

else

Traverse to the end of the contact list Add new contact to the end of the list

end if

Display "Saving contact <name>: <number>"

end if

end

DeleteContact ()

Prompt user for contact name to delete (Firstname Lastname)

if user input is not null then

if contact list is empty (head is null) then

Display "Contact list is empty"

else if head.name equals input name then

Remove head contact (set head to head.next)

Display "Deleted contact: <name>"

Else

Remove contact by linking previous to next Display "Deleted contact: <name>" Else Display "Could not find <name> to delete" end if end if end if end UpdateContact () Prompt user for contact name to update (Firstname Lastname) if user input is not null then Prompt user for new phone number if new number is not null then Traverse contact list if matching contact is found then Update contact's phone number Display "Updated contact <name> to <new number>" Else Display "Could not find <name> to update" end if end if end if end **DisplayAllContacts ()** if contact list is empty (head is null) then Display "No contacts available" else Display "Contact List:" Traverse contact list for each contact: Display "<name>: <number>"

Traverse contact list if matching contact is found then

```
end for
end if
end
SortContacts ()
if contact list is empty or has only one contact then
Display "No contacts available to sort"
Else
repeat until no swaps occur: Traverse contact list if current contact name is greater than next contact
name then Swap current contact and next contact (name and number)
end if
end repeat
Display "Contacts sorted alphabetically"
end if
end
searchContact ()
Prompt user for contact name to search (Firstname Lastname)
if user input is not null then
Traverse contact list if matching contact is found then
Display "Found: <name> - <number>"
Else
Display "Could not find <name>"
end if
end if
end
main ()
Initialize GUI for SafeLock
// Create and add buttons for various operations
Create button "Save Contact"
Create button "Delete Contact"
```

Create button "Update Contact" Create button "Display All Contacts" Create button "Call Contact" Create button "Sort Contacts" Create button "Search Contact" // Set button actions On "Save Contact" button click: call saveContact On "Delete Contact" button click: call deleteContact On "Update Contact" button click: call updateContact On "Display All Contacts" button click: call displayAllContacts On "Call Contact" button click: call callContact On "Sort Contacts" button click: call sortContacts On "Search Contact" button click: call searchContact // Display GUI Start GUI loop to handle user actions end