

Search Contact Linear Search

FUNCTION searchContactsByName(name) **RETURNS** LinkedList

START

LinkedList results = NEW LinkedList()

INTEGER count = 0

// Check if the list is empty

IF isEmpty() THEN

 DISPLAY message "The list is empty." with title "No contacts"

 RETURN NULL

END IF

// Traverse the linked list

Node temp = this.head

WHILE temp IS NOT NULL DO

 // Check if the first or last name matches

 IF temp.contact.getFirstName() EQUALS name OR

 temp.contact.getLastName() EQUALS name THEN

 // Display the contact's details

 textArea.setText(temp.contact.toString())

 // Insert contact into results

 results.insertContact(temp.contact)

 END IF

 // Move to the next node

 temp = temp.next

 count = count + 1

END WHILE

```
// Return the list of matching contacts
```

```
RETURN results
```

```
END FUNCTION
```