

1. Insert Contact

Start

If (phonebook has space) Then

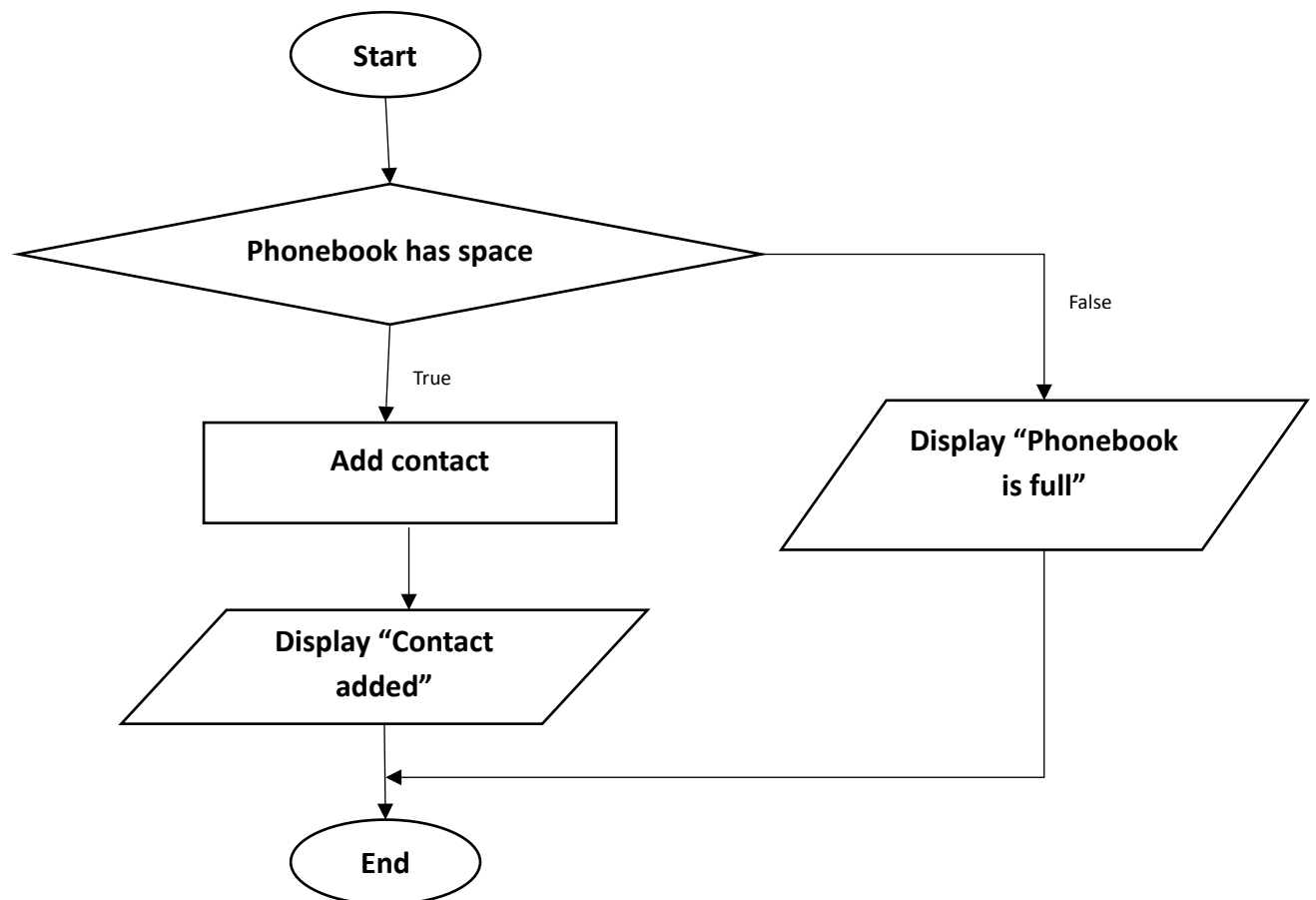
Add contact

Display "Contact added"

Else

Display "Phonebook is full"

End



2. Search Contact

Start

For each contact in phonebook

If (name matches) Then

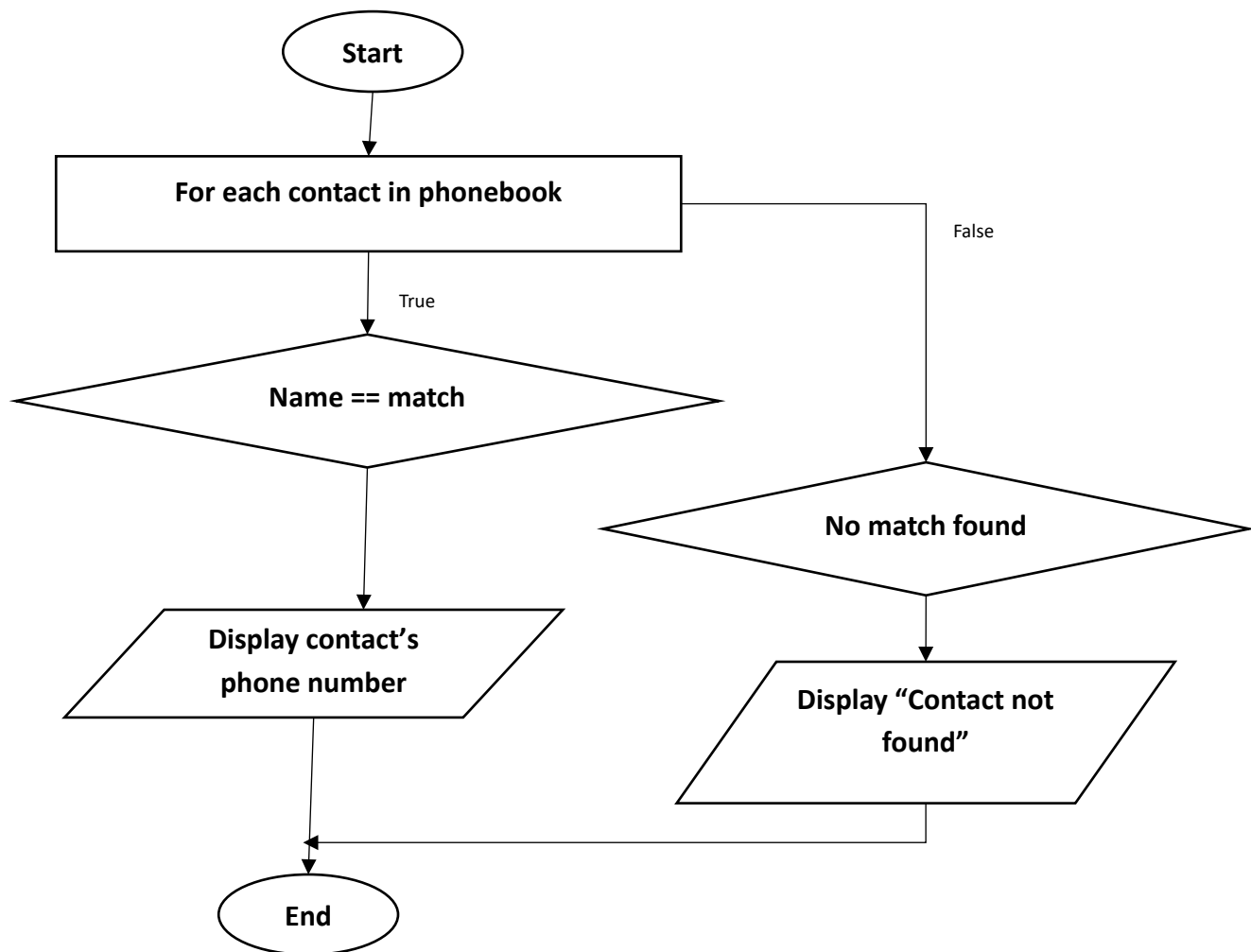
Display contact's phone number

Else

If (no match found) Then

Display "Contact not found"

End



3. Display All Contacts

Start

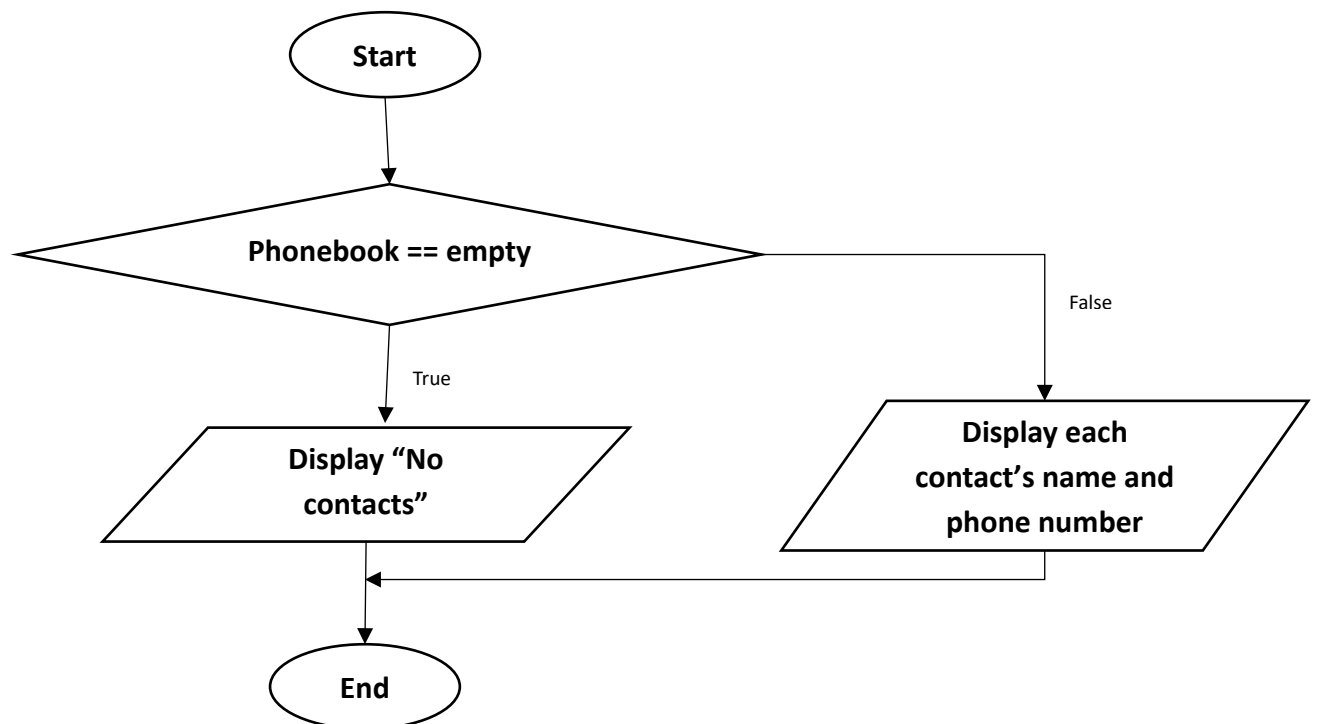
If (phonebook is empty) Then

Display "No contacts"

Else

Display each contact's name and phone number

End



4. Delete Contact

Start

For each contact in phonebook

If (name matches) Then

Delete contact

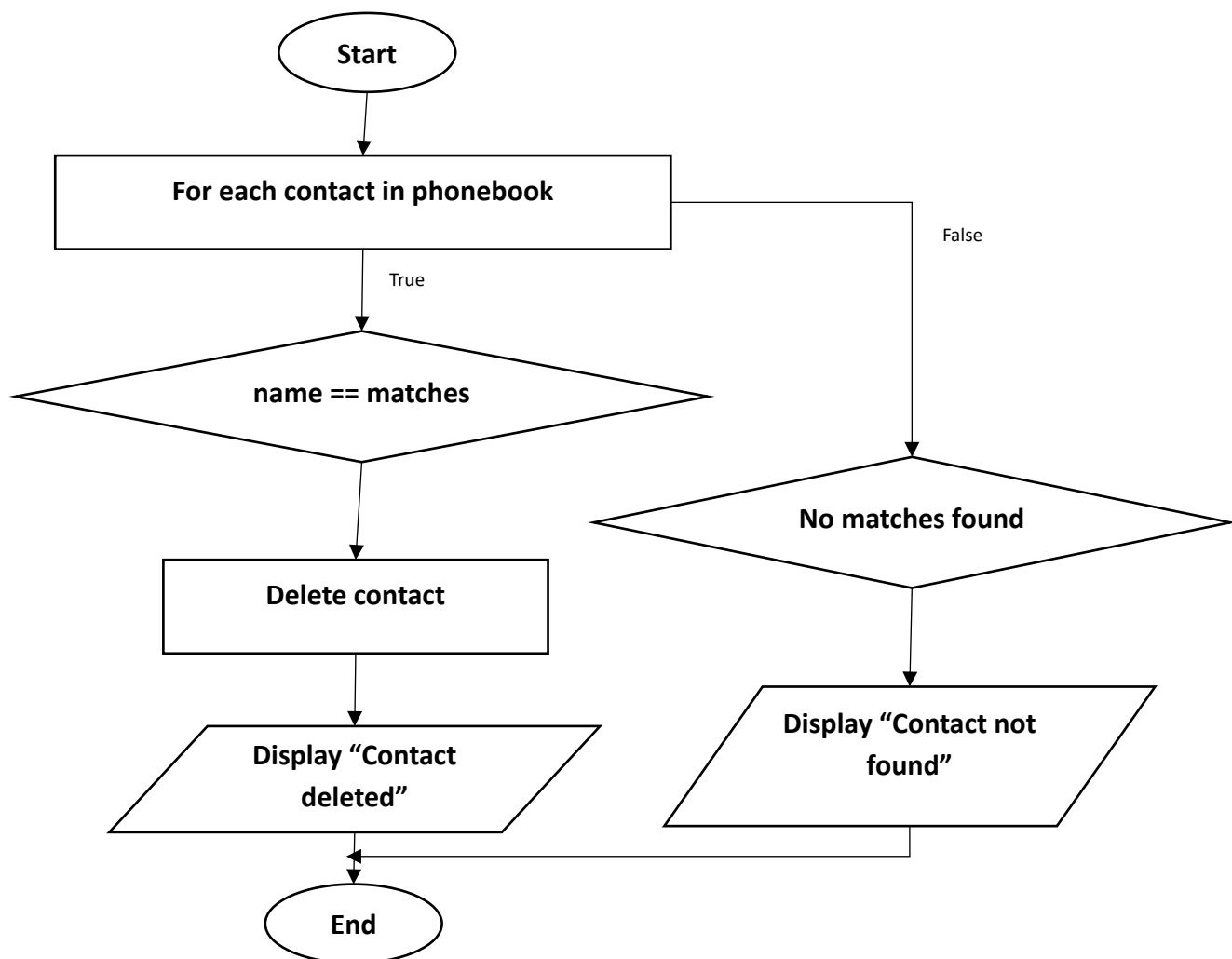
Display "Contact deleted"

Else

If (no match found) Then

Display "Contact not found"

End



5. Update Contact

Start

For each contact in phonebook

If (name matches) Then

Update phone number

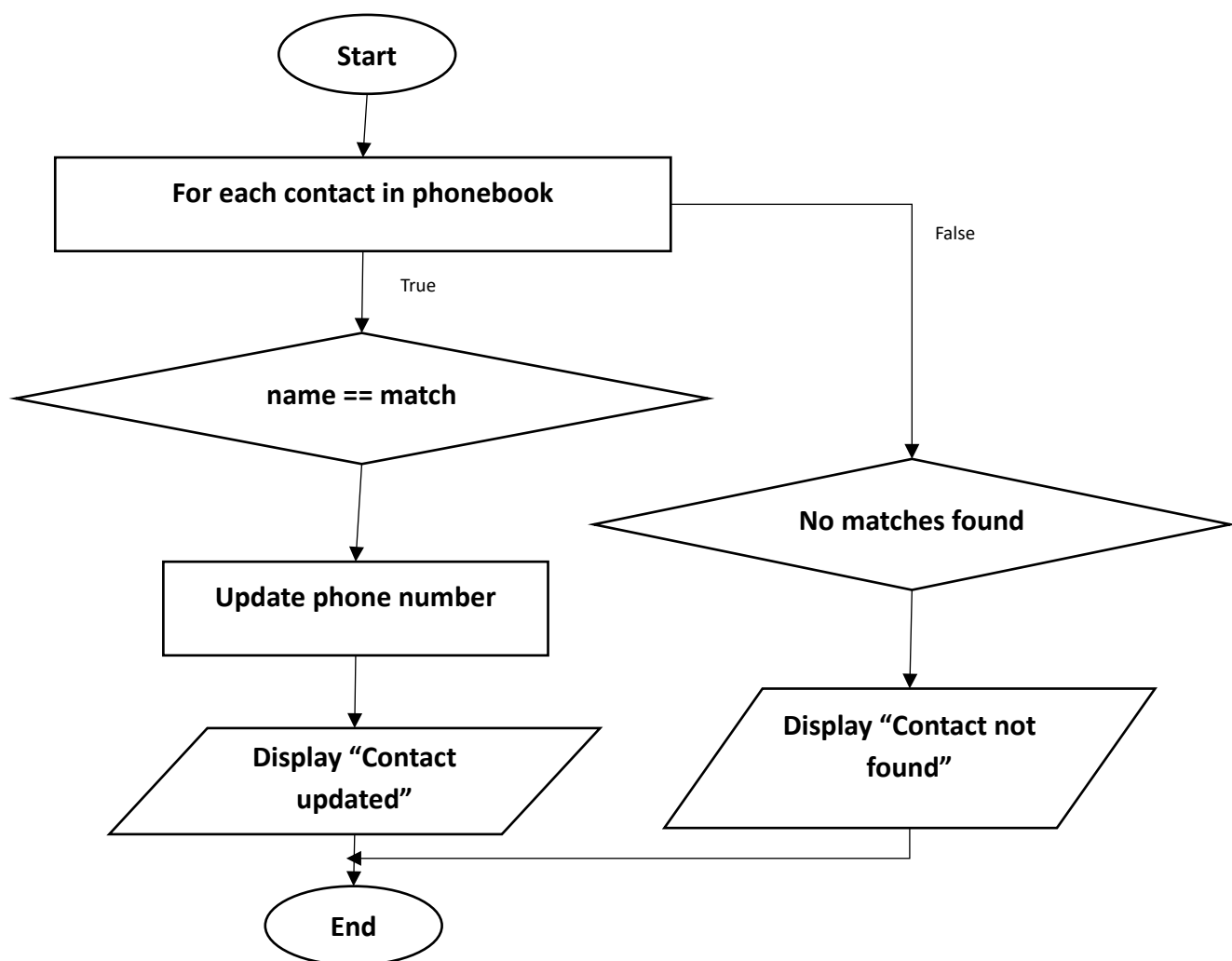
Display "Contact updated"

Else

If (no match found) Then

Display "Contact not found"

End



6. Sort Contacts

Start

If (phonebook is not empty) Then

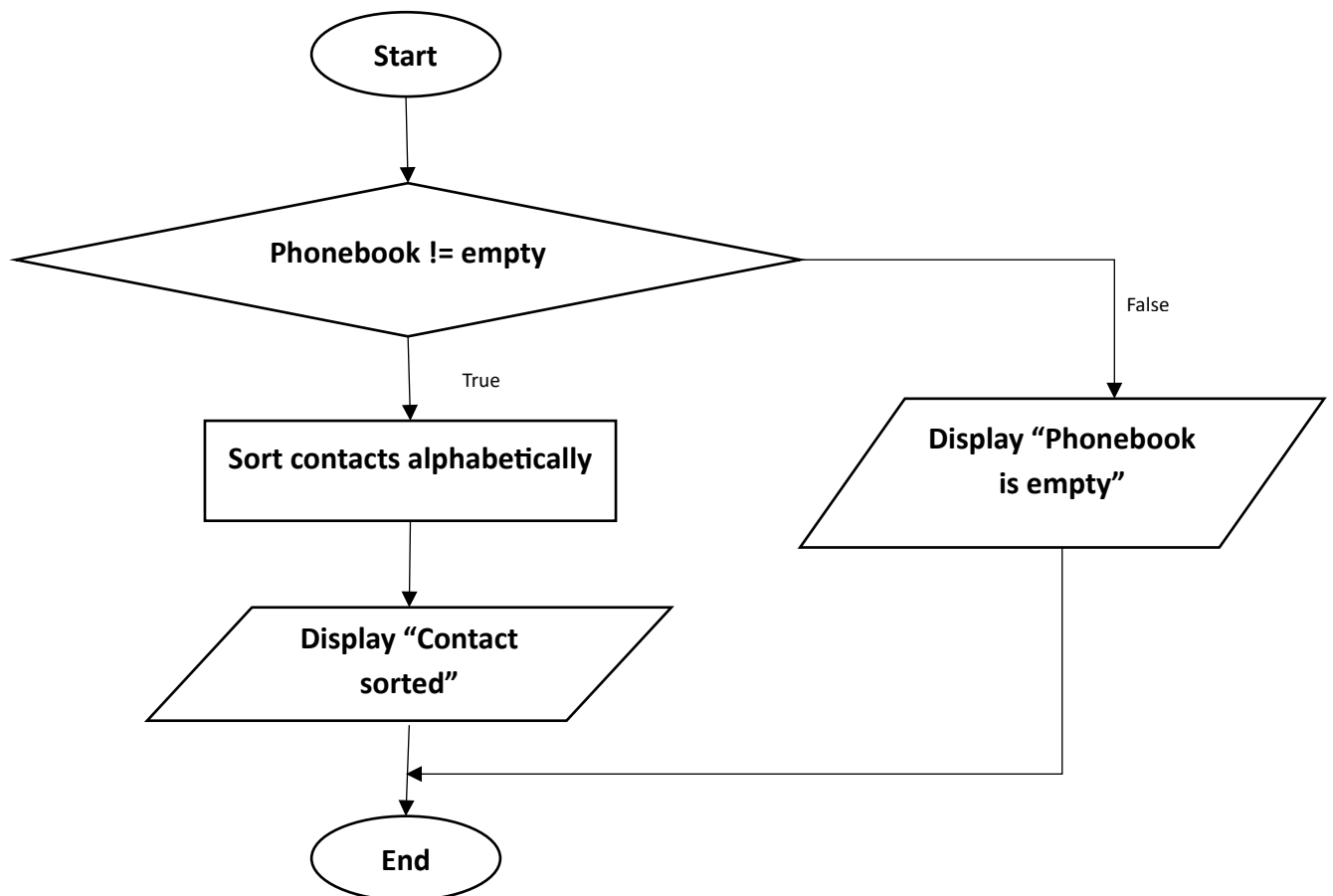
Sort contacts alphabetically

Display "Contacts sorted"

Else

Display "Phonebook is empty"

End



7. Analyse Search Efficiency

Start

Count total contacts in phonebook

Display "Search time depends on number of contacts"

End

