



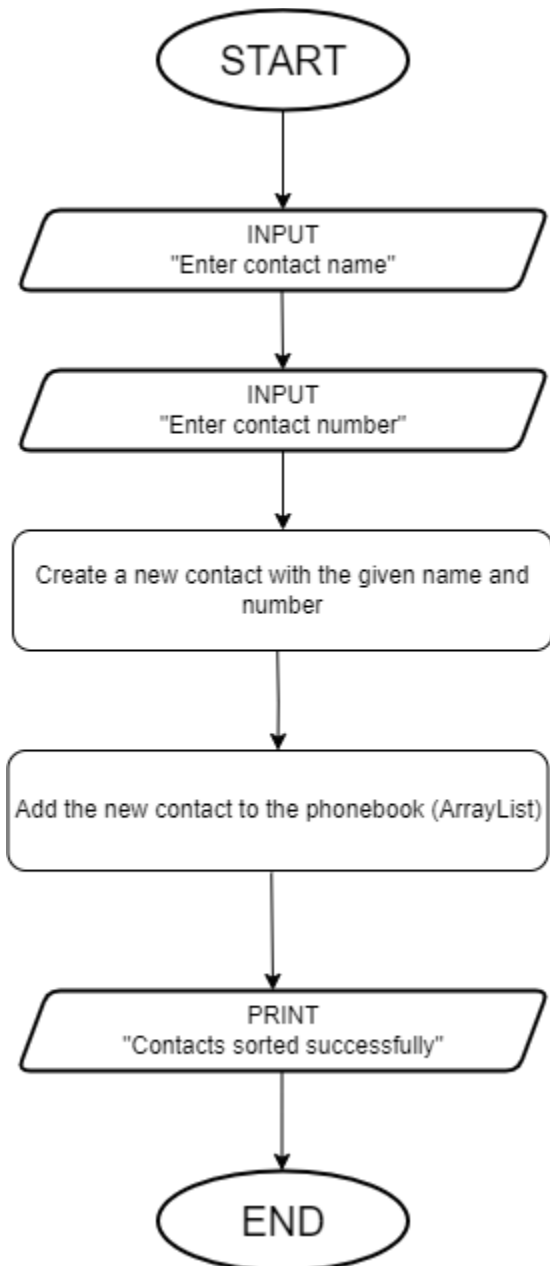
DSA PHONEBOOK DOCUMENTATION

PSEUDOCODE AND FLOWCHARTS



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```
FUNCTION InsertContact(phonebook, name, number)
    CREATE new_contact AS Contact(name, number)
    ADD new_contact TO phonebook
    PRINT "Contact added successfully"
END FUNCTION
```



FUNCTION SearchContact(phonebook, name)

FOR each contact IN phonebook

IF contact.name EQUALS name

PRINT "Contact found: ", contact.name, contact.number

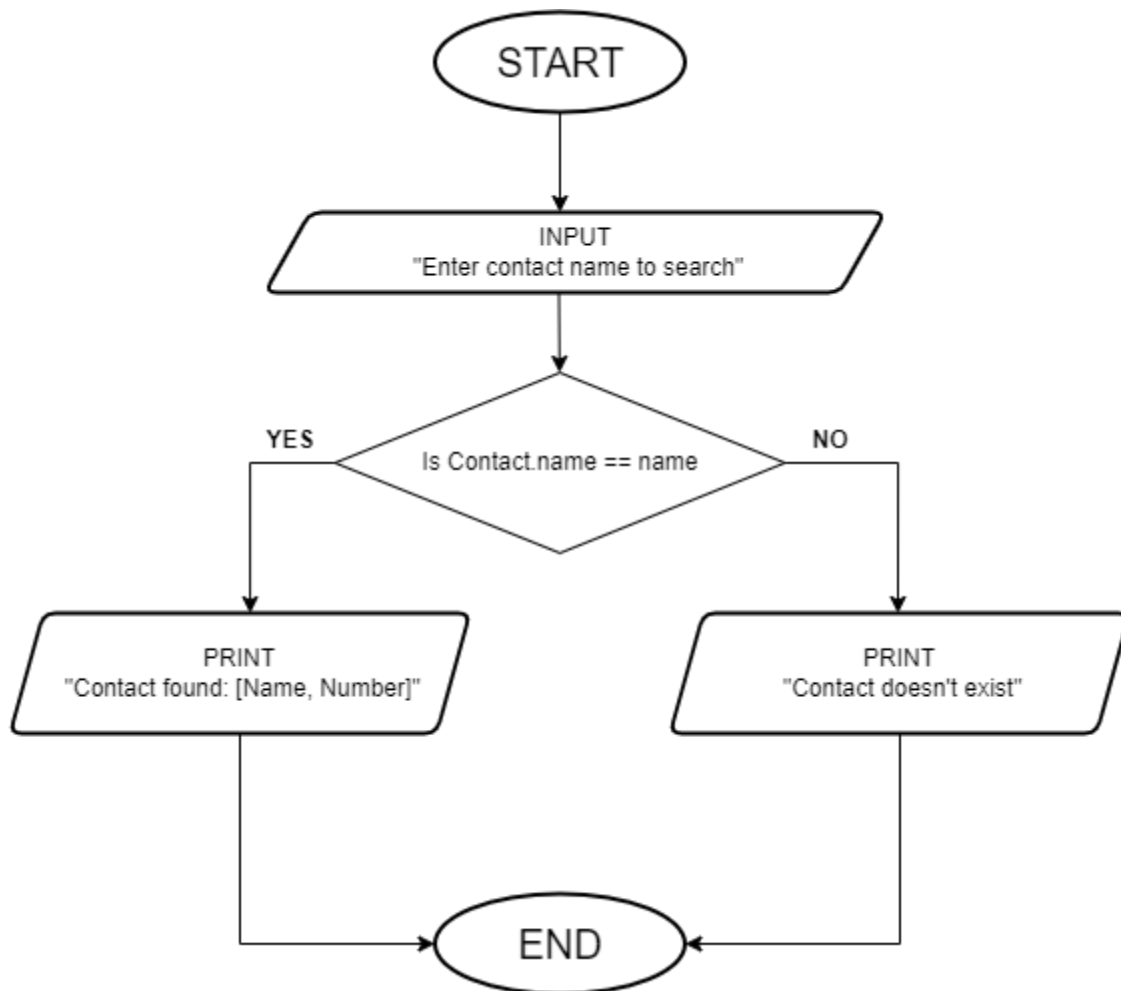
RETURN

END IF

END FOR

PRINT "Contact not found"

END FUNCTION



FUNCTION DisplayAllContacts(phonebook)

IF phonebook is empty

PRINT "Phonebook is empty"

RETURN

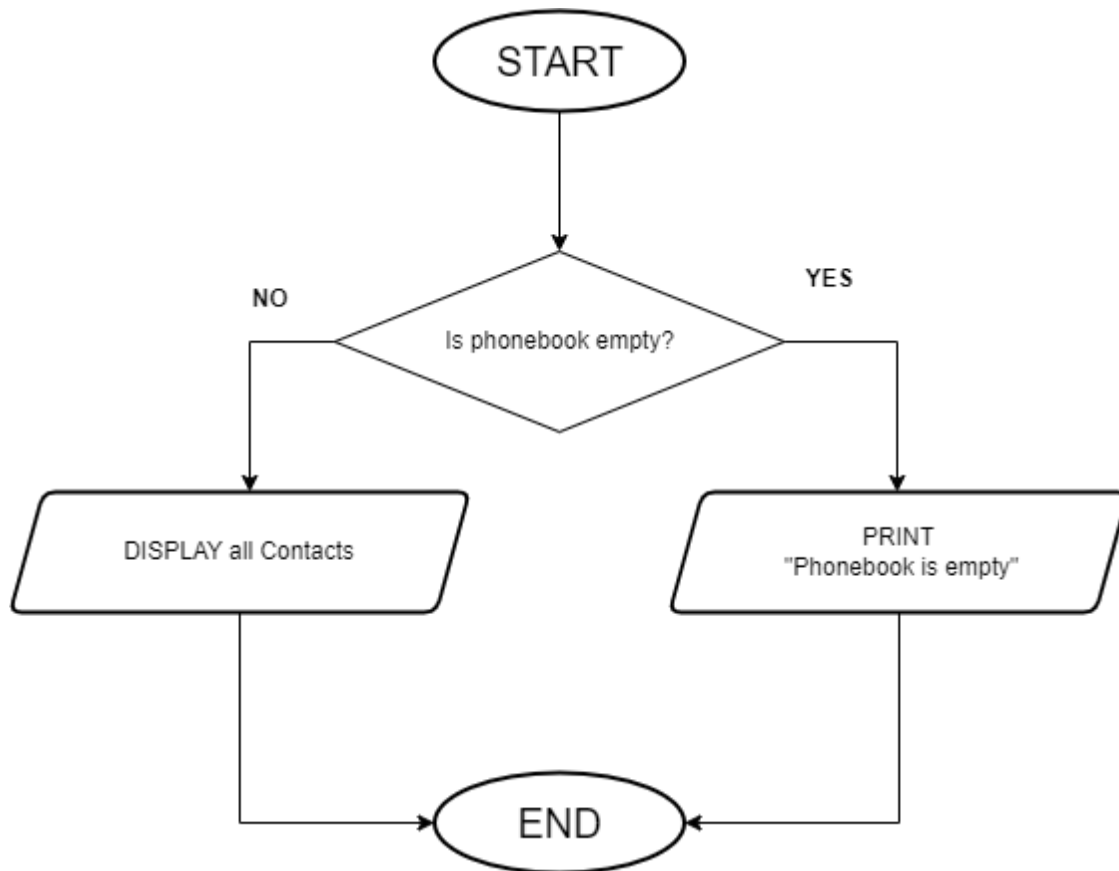
END IF

FOR each contact IN phonebook

PRINT contact.name, contact.number

END FOR

END FUNCTION



FUNCTION DeleteContact(phonebook, name)

FOR each contact IN phonebook

IF contact.name EQUALS name

REMOVE contact FROM phonebook

PRINT "Contact deleted successfully"

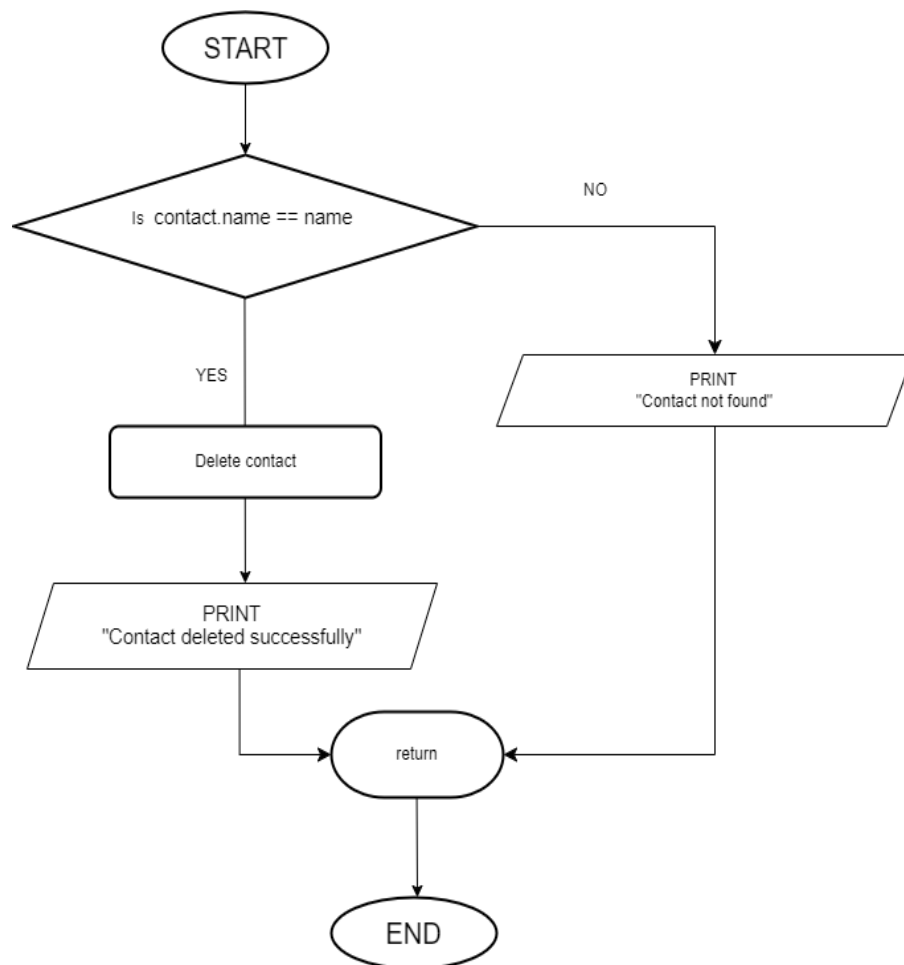
RETURN

END IF

END FOR

PRINT "Contact not found"

END FUNCTION



FUNCTION UpdateContact(phonebook, name, new_number)

FOR each contact IN phonebook

IF contact.name EQUALS name

contact.number = new_number

PRINT "Contact updated successfully"

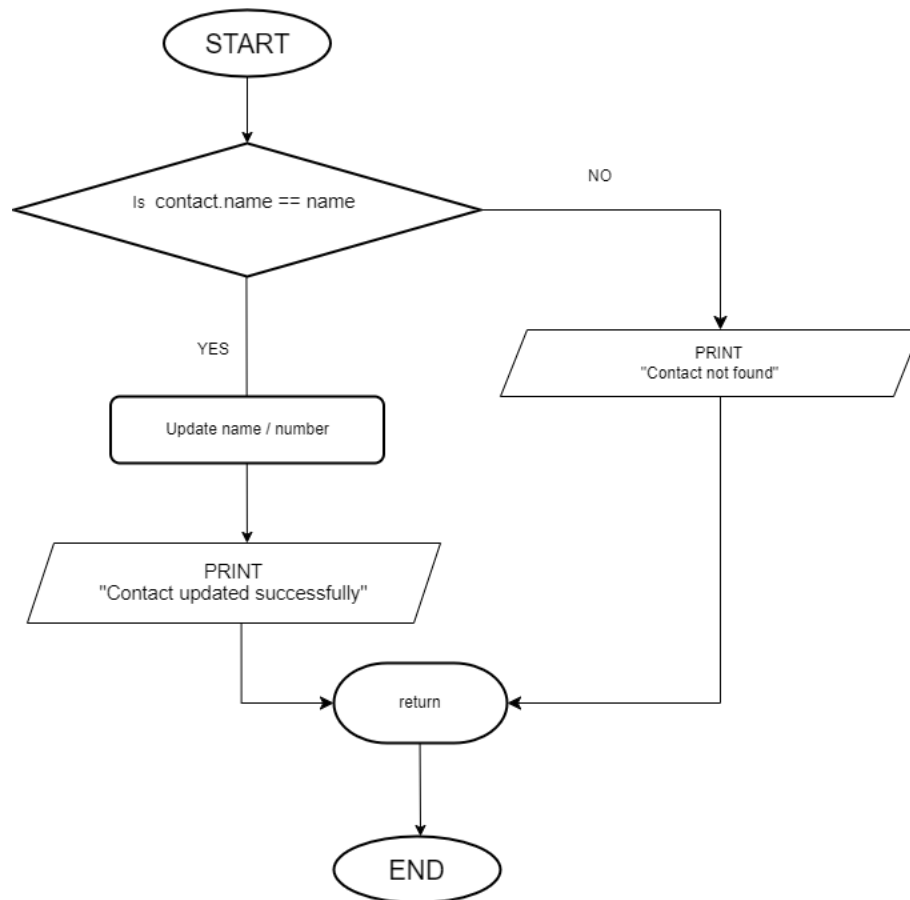
RETURN

END IF

END FOR

PRINT "Contact not found"

END FUNCTION



```
FUNCTION SortContacts(phonebook)
    SORT phonebook BY contact.name IN ascending order
    PRINT "Contacts sorted successfully"
END FUNCTION
```

