Finding Attributes Answer

- A person who might receive a letter
  - first name, last name, address, etc.
- A person suspected in a criminal case
  - photograph, fingerprint, measurements, alibi, etc.
- The person the phone bill is sent to
  - first name, last name, address, dialing number, connection rate, communication cost
- An employee using a security access card
  - "his" access card number
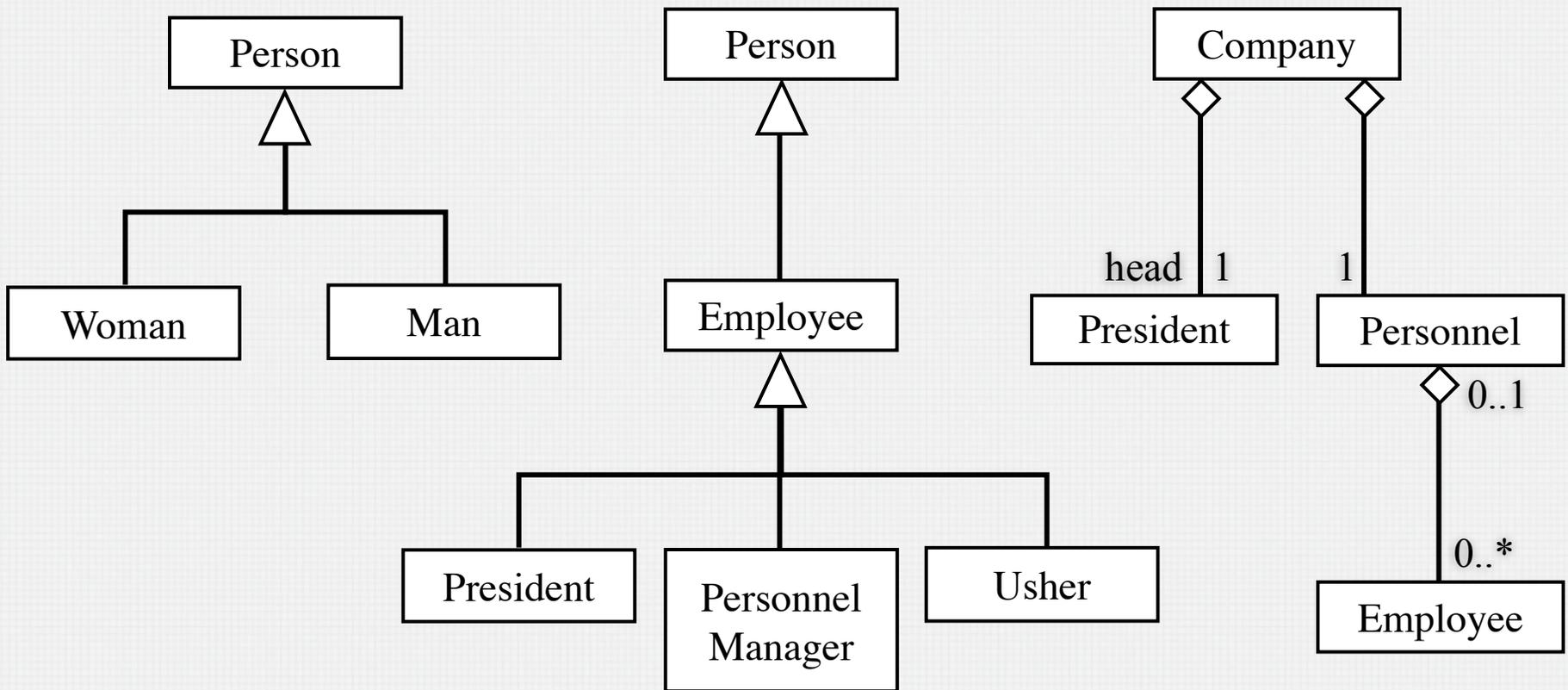
Association Solutiom

- The printer Neo, of type Phaser 4400N, made by Xerox, located in room McConnell 322...
- Mr. Rich, business man, 42 years old, living in Zug, Switzerland, married with Mrs. Dufour, ...
- Mr. Rich owns an account with the Swiss Union Bank.
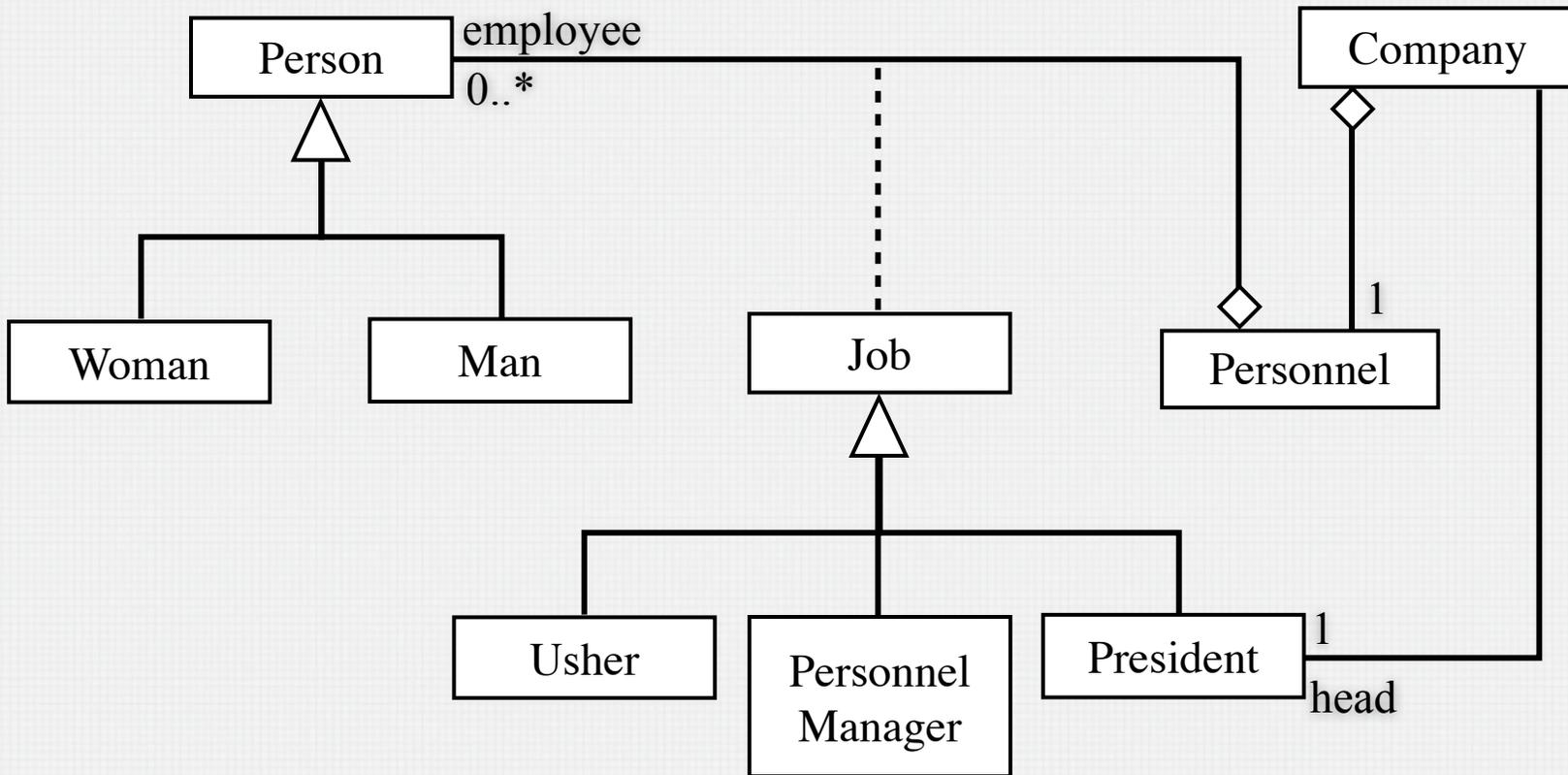- A flight corresponds to an aircraft flying a route on some weekday.

- Develop a Domain Model, including multiplicities, for a system where a person works for exactly one company
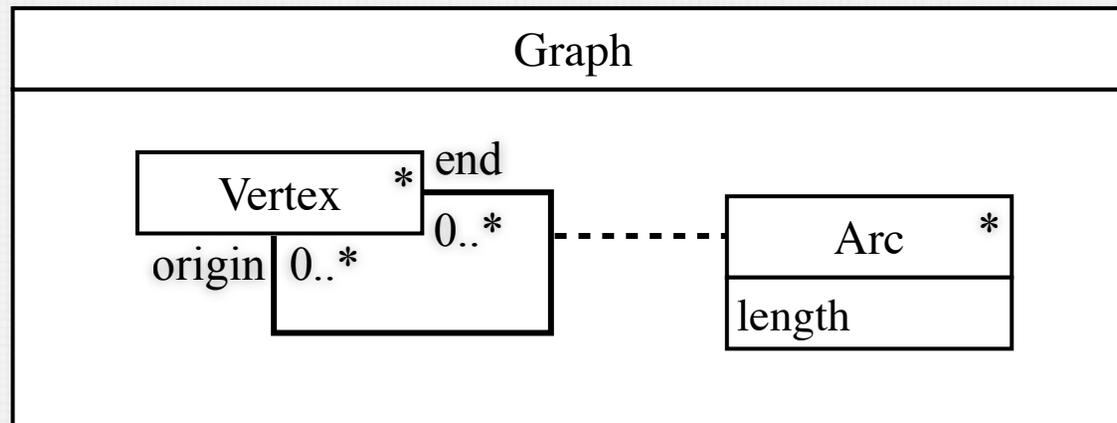
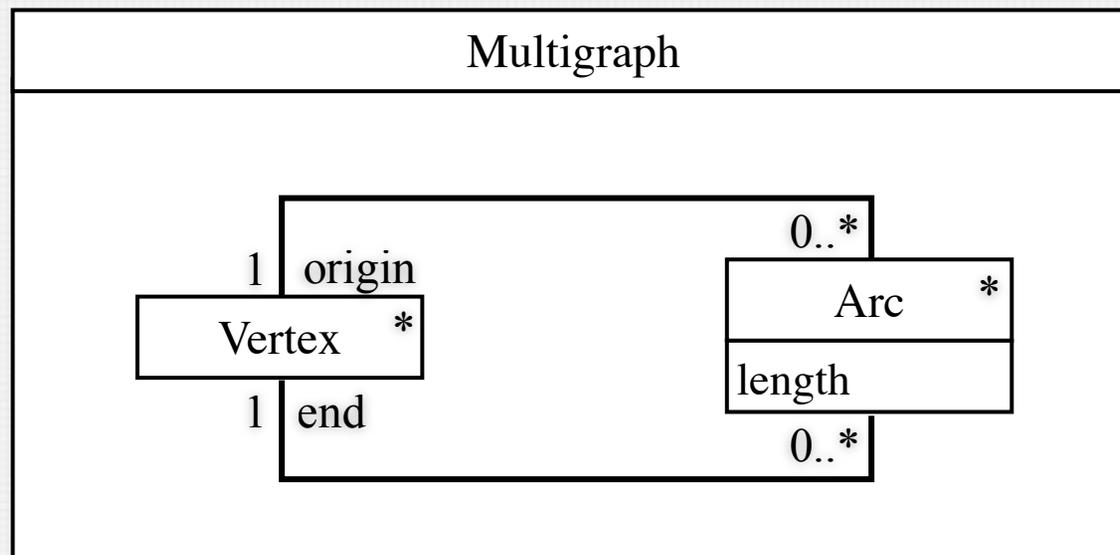# Employee Answer (1)

Employee Answer (2)

Relationships Answer

- A country has a capital.
    - composition, aggregation or association
- A file is a regular file or a directory.
    - generalization-specialization
- A file belongs to a directory.
    - aggregation (Unix), composition (Windows)
- Files contain records.
    - composition
- A polygon is composed of segments.
    - aggregation
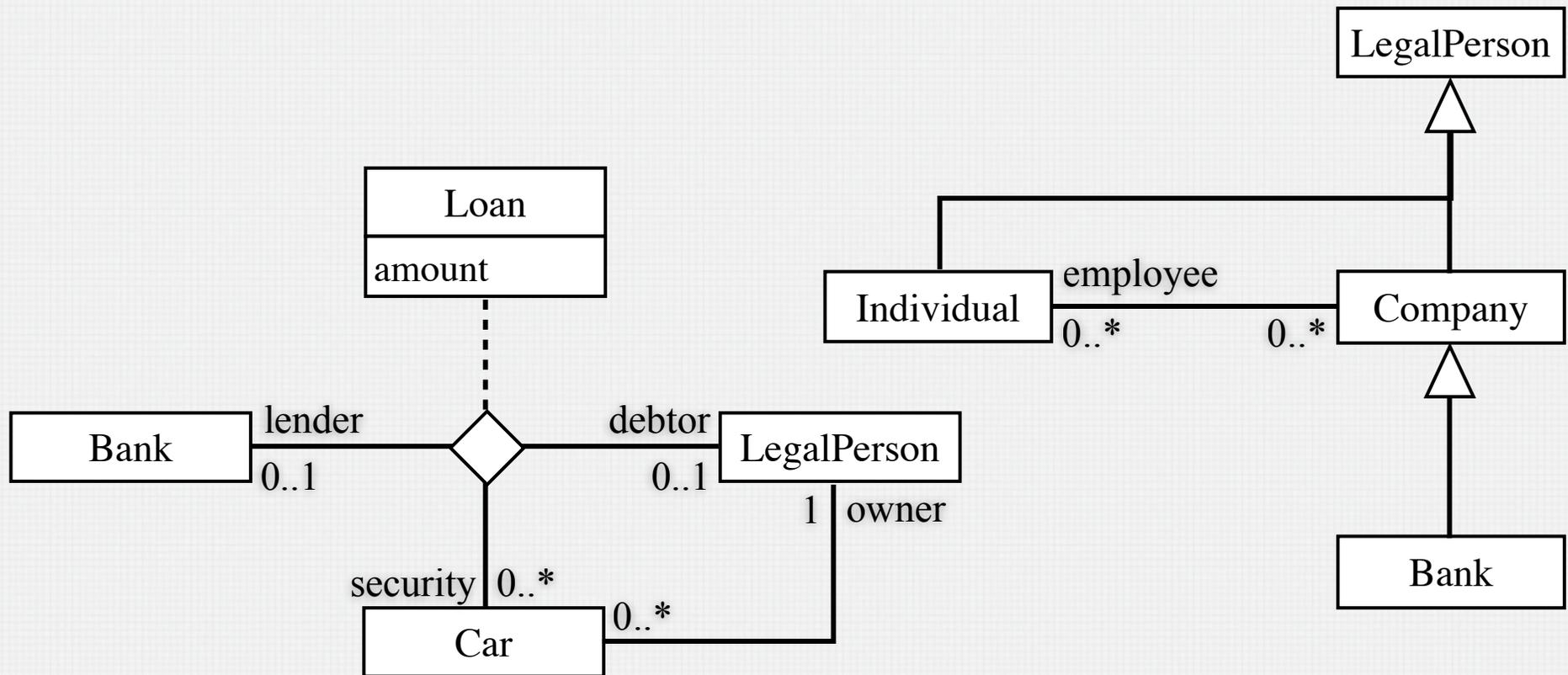- A person uses a programming language.
    - association

Graph Answer

Graph

Vertex * end

origin 0..* 0..*

Arc *

length

Multigraph Answer

Automobiles Answer

Context: Loan
self.security.owner = self.debtor

Library Answer

Loan
startDate
endDate

BookCopy
barcode
onReserve

0..*
borrowedBook

0..1
currentHolder

Member
name
email

0..*

{ordered} requester

Book
title

0..*

1

bookOnHold
0..*

0..*

BookCategory
description

1

0..*

0..*

MemberCategory
description
maxNumberBooks

1

LoanPeriod
duration