# Modeling and Unified Modeling Language

## UML

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# 4. Chapter: Class Diagram

## 1. Class Diagram Questions


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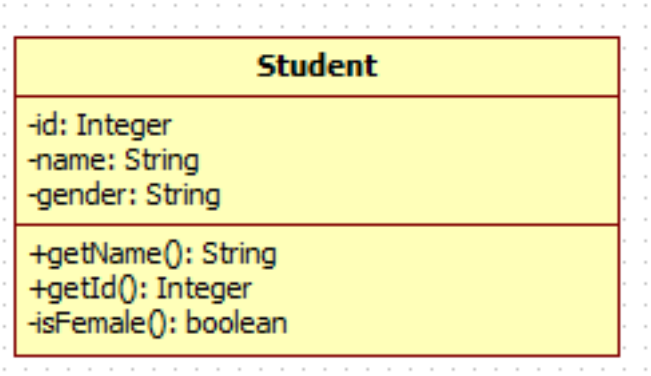
# 4.1.1. What is true about the following class Student depicted using UML?

Author: JavaChamp Team

What is true about the following class Student depicted using UML?




Please choose all the answers that apply:

- the attribute "id" is privately accessed
- the attribute "id" is publicly accessed
- getName, getId and isFemale are all attributes in class Student
- getName accepts a parameter of type String
- isFemale() is a protected method
- isFemale() is a private method

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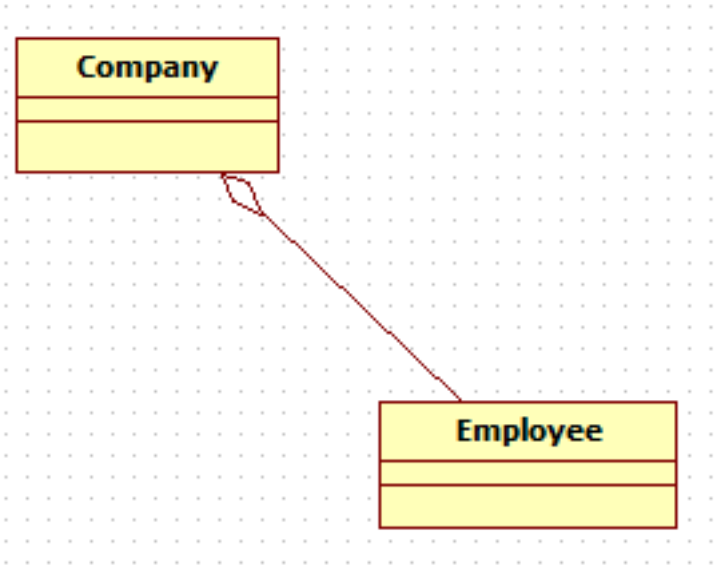
## 4.1.2. What is true about the relationship between Company and Employee?

Author: JavaChamp Team

What is true about the relationship between Company and Employee?




Please choose all the answers that apply:

- this relationship is called composition
- this relationship is called aggregation
- Company is teh parent class of this relationship
- Employee is the parent class of this relationship
- it means Employee inherits from Company

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Question: a composite aggregation in class diagram in uml

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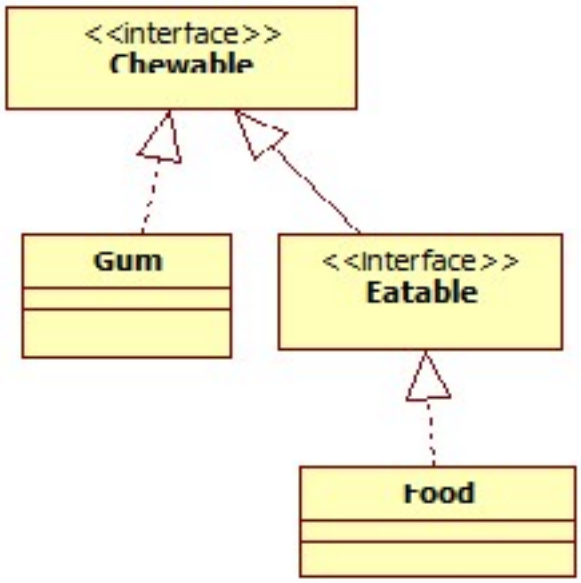
## 4.1.3. What best describe the relationships between classes in this class ...

Author: JavaChamp Team

What best describe the relationships between classes in this class diagram?




Please choose only one answer:

- it is a generalization relationship between Food and Eatable
- it is a realization relationship between Food and Eatable
- it is an association relationship between Food and Eatable

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## 4.1.4. How to set an attribute's visibility (access level) in UML?

Author: JavaChamp Team

How to set an attribute's visibility (access level) in UML?

Please choose only one answer:

- + public, ~package, - protected, # private
- + public, #package, - protected, ~ private
- # public, ~package, + protected, - private
- + public, ~package, # protected, - private

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## 4.1.5. What best describe the link between Book and Page?

Author: JavaChamp Team

What best describe the link between Book and Page?

Please choose all the answers that apply:

- it is an aggregation relationship
- it is a composition relationship
- Book is the parent class of this relationship
- it means that Page inherits from Book
- 1 means that a Book can have at least 1 Page
- 1 means that a Page must be part of one Book only

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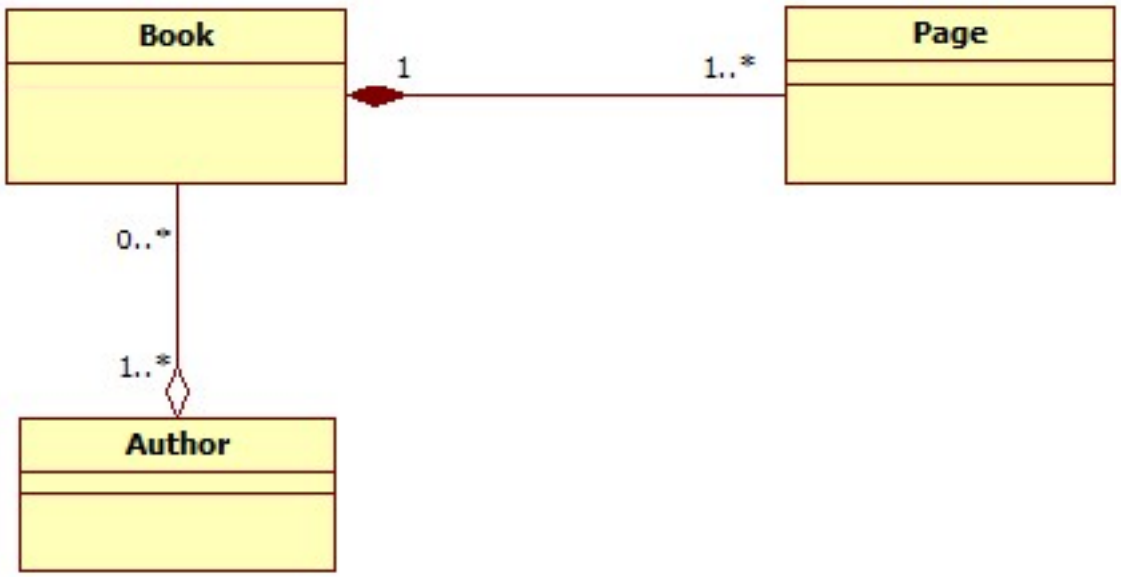
## 4.1.6. How the multiplicities of this diagram are interpreted?

Author: JavaChamp Team

How the multiplicities of this diagram are interpreted?




Please choose all the answers that apply:

- a book must have at least one page
- a book can be authored by one author only
- an author must have at least one book
- a page can be part of one or many books
- many books can be authored by the same author

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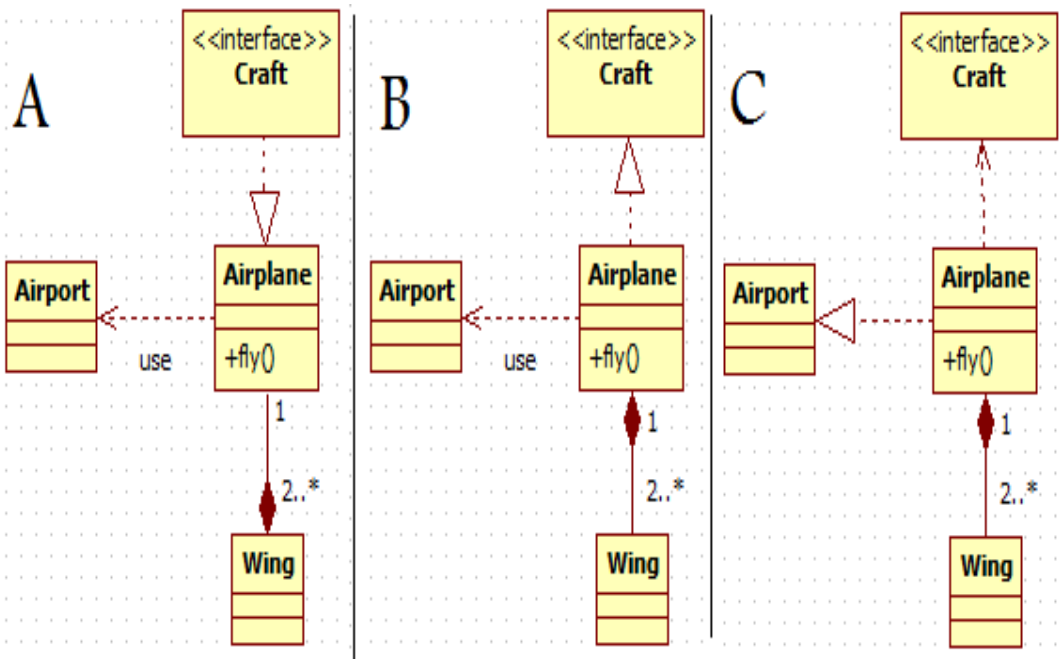
4.1.7. Class Airplane is a Craft, that has Wings. It uses Airport to fly.

...

Author: JavaChamp Team

Class Airplane is a Craft, that has Wings. It uses Airport to fly.

Which diagram best depicts class Airplane?




Please choose only one answer:

- A
- B
- C

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## 4.1.8. What is an association class?

Author: JavaChamp Team

What is an association class?

Please choose only one answer:

- an association class is a term used to distinguish the parent class of an association
- an association class is a class introduced to carry attributes and operations of an association between two classes.
- an association class is a class introduced to replace a one-to-one association betwen two classes

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## 4.1.9. What are Class Diagrams used for?

Author: JavaChamp Team

What are Class Diagrams used for?

Please choose only one answer:

- to depict the dynamic interaction between classes
- to model the static structure of your system
- to diagnose your system vulnerabilities

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## 4.1.10. What are the differences/similarities between an aggregation and a ...

Author: JavaChamp Team

What are the differences/similarities between an aggregation and a composition?

Please choose all the answers that apply:

- both represent a subclassing relationship
- both represent an ownership relationship
- aggregation is stronger than composition in terms of life cycle dependency between the involved classes
- in a composition relationship, deleting the instance of the owner (container) class would result in deletion of the instances of the contained class

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# 4. Chapter: Sequence Diagram

## 1. Sequence Diagram Questions


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## 4.1.1. What is a sequence diagram used for?

Author: JavaChamp Team

What is a sequence diagram used for?

Please choose only one answer:

- it is used to capture a dynamic behavior in your system
- it is used to capture a static state of a part of your system
- it is used to depict the associations between the system's classes

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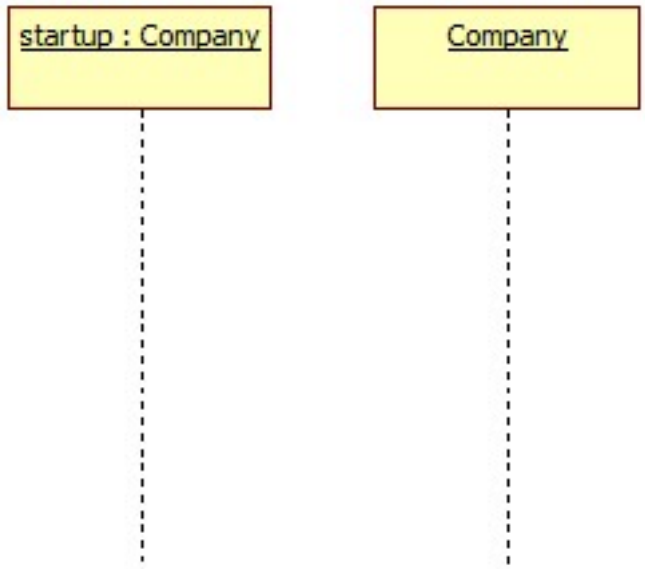
# 4.1.2. What is the difference between the following two lifelines that rep...

Author: JavaChamp Team

What is the difference between the following two lifelines that represent a participant in a sequence diagram?




Please choose all the answers that apply:

- startup:Company represents all instances of class Company
- startup:Company represents an instance of class Company
- Company represents an anonymous instance of the Compny class
- both are exactly the same

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