

Enter your  
codename from  
eClass grades as  
your name on Menti



# Did you enter your codename from eclass as your name on Mentimeter?

None of the options are correct!



# Have you been employed as a programmer before?



# What programming languages do you know?

There's no correct answer!



# What do you think Software Engineering is?

There's no correct answer!



# Have you read the collaboration policy?



# Who is playing the role of the customer in 301?



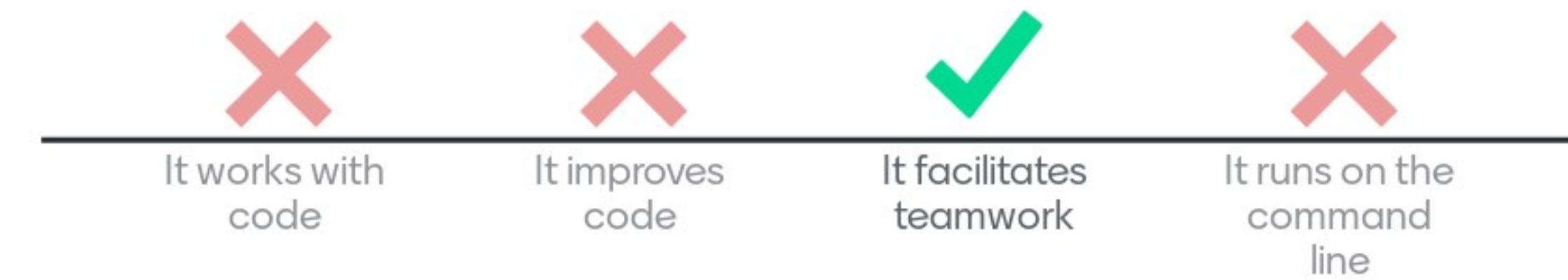
# Who is playing the role of the manager in 301?



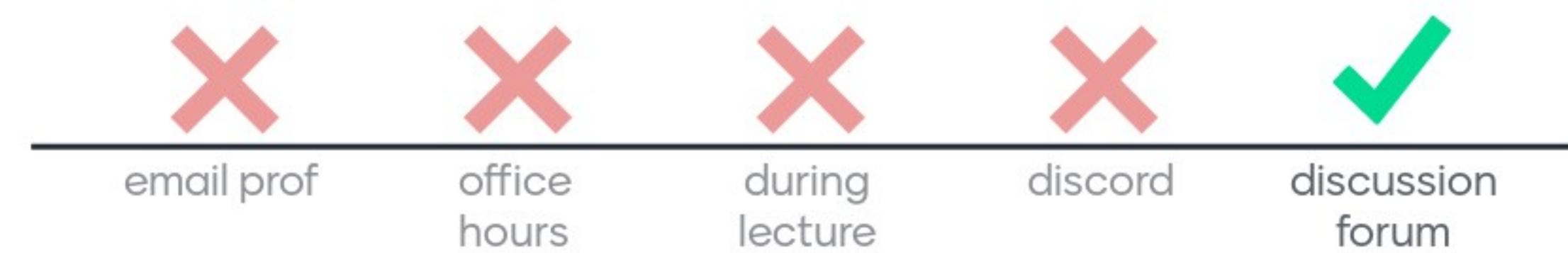
# Who is playing the role of the programmers in 301?



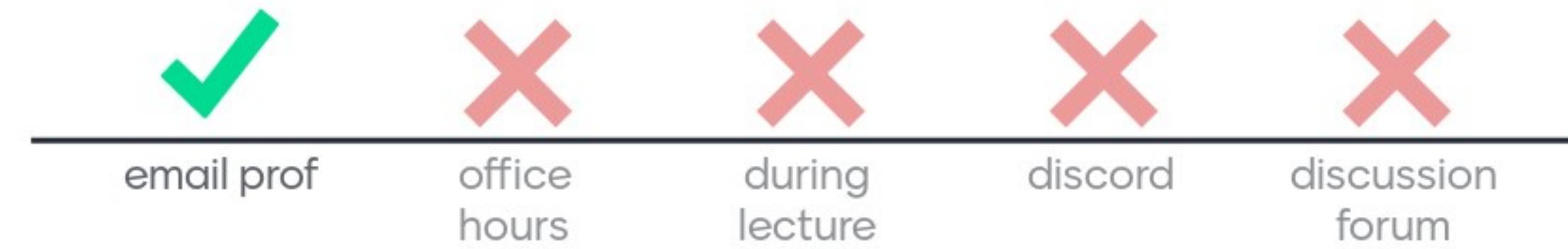
# why is git considered a software engineering tool?



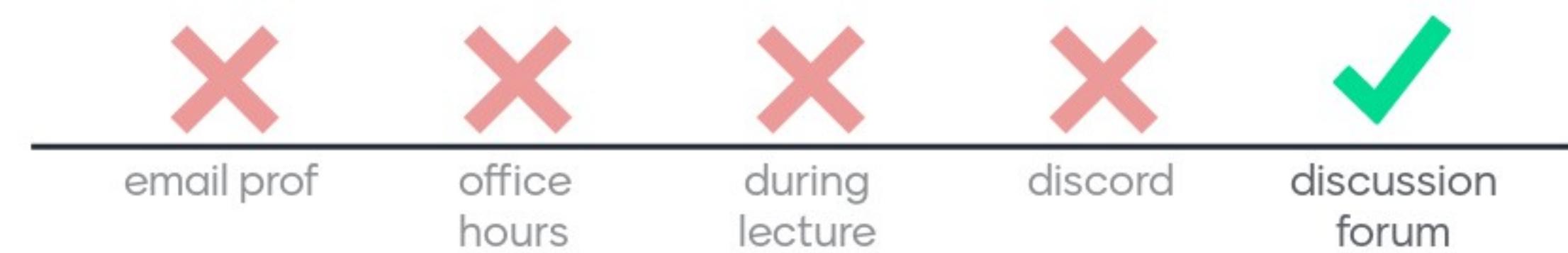
# If you have a question about the project requirements, where should you ask it?



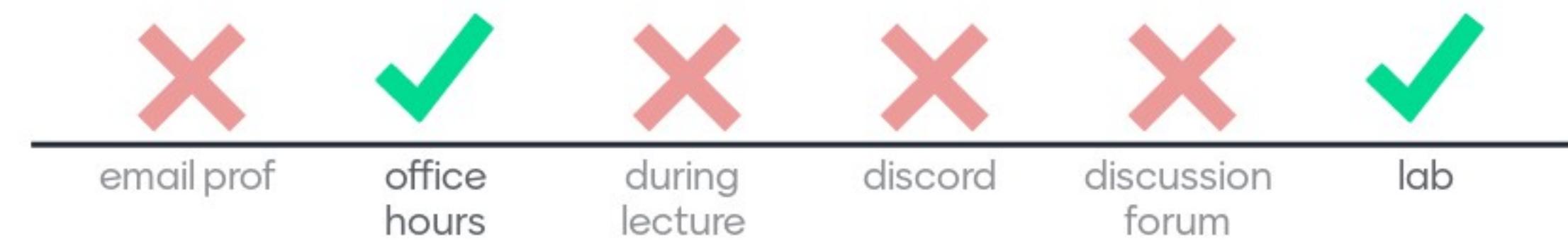
# If you think your grade is wrong, where should you ask about it?



# If you have a question about an assignment requirement where should you ask it?



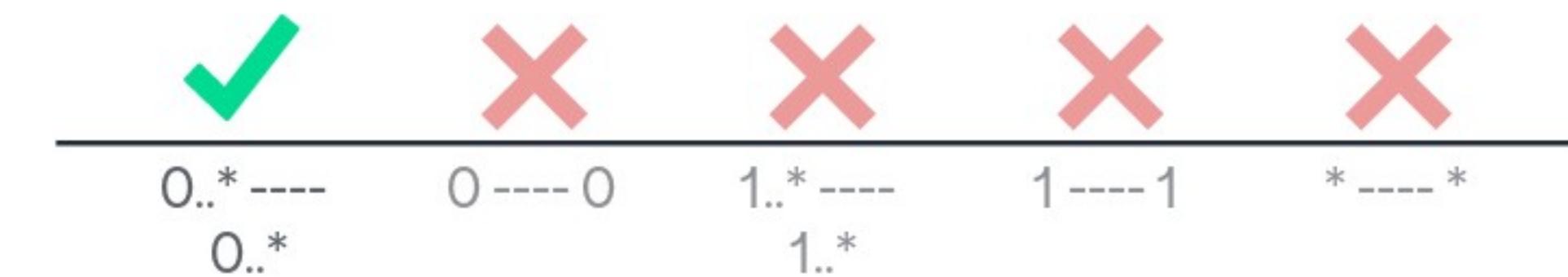
# If you need help with your code where should you ask about it?



**every Trainer object references zero or more Pokemon objects, every Pokemon object references zero or more Trainer objects**



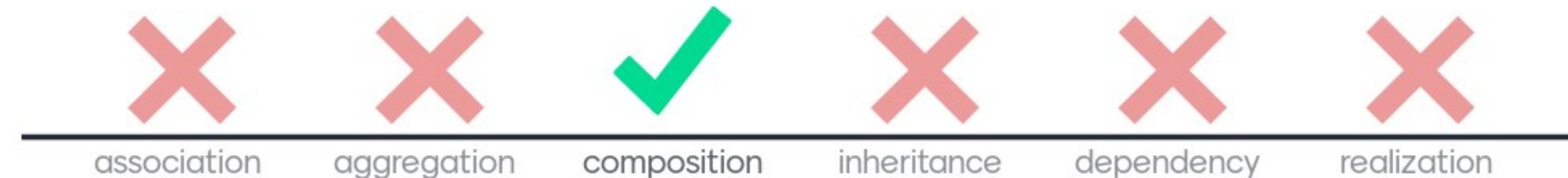
every Trainer object references zero or more Pokemon objects, every Pokemon object references zero or more Trainer objects



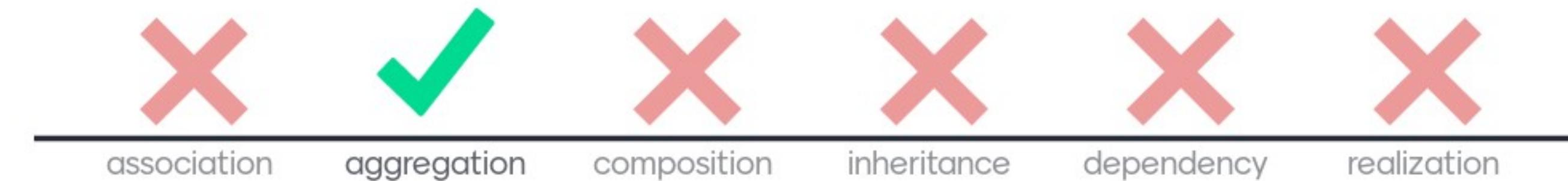
# No diamond



# Filled-in diamond



# Outlined (empty) diamond



# If a Team is made out of one or more Pokemon, what is that?



# If a Pokemon has one or more Moves, what is that?



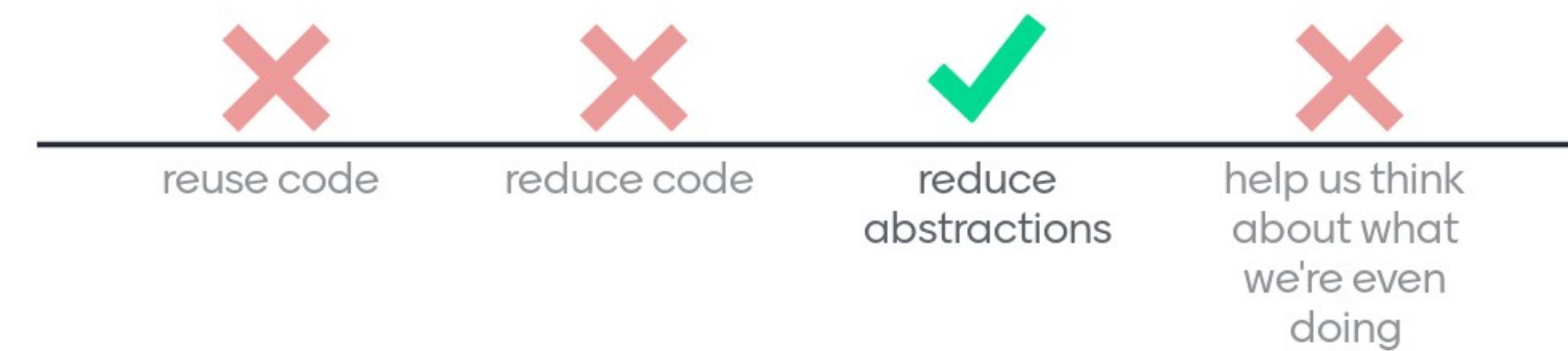
# If a Pokemon has one or more Moves, which is the Whole



# Which side does the diamond go on



# What is NOT a reason to generalize?



# Base class is also called a



# Derived class is also called a



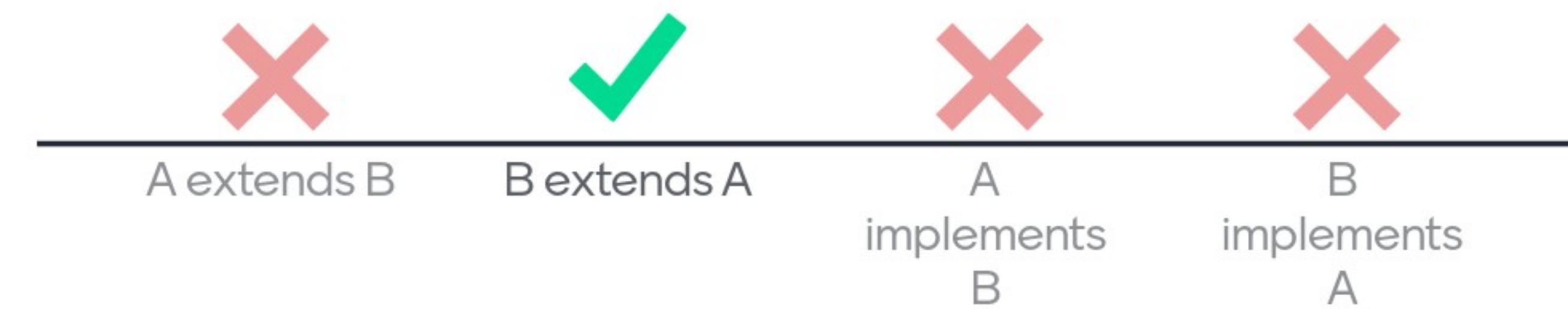
# a JAVA class can only have ONE



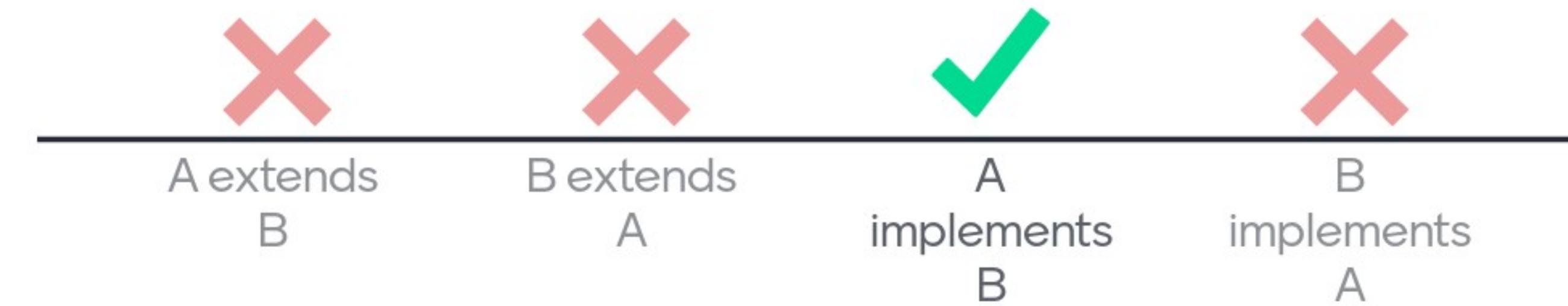
# a Java class can have multiple



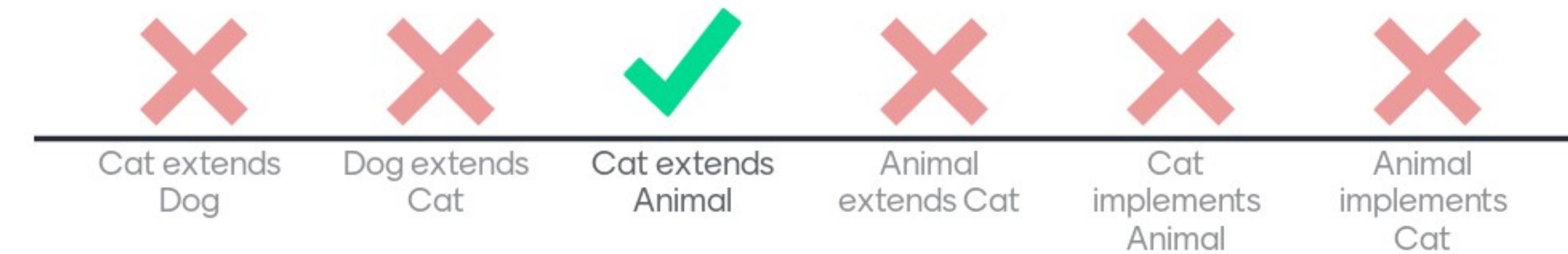
# A is a superclass of B



# A defines all the methods declared in B



# Which makes the most sense?



# Which makes the most sense?



# Which one can have actual code in it?



# What relationship do InBattleUsable and Potion have?



# What relationship do Character and Inventory have?



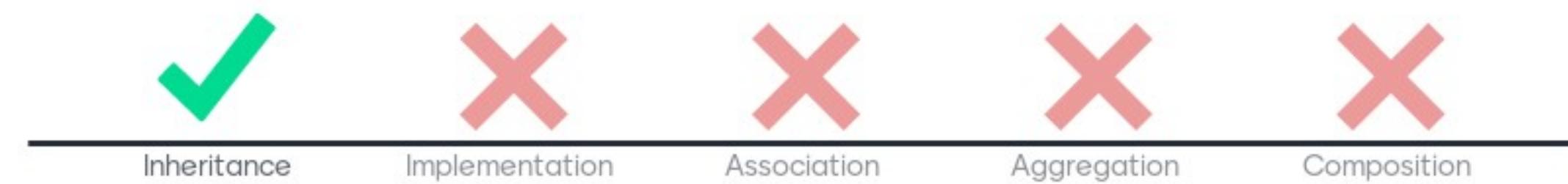
# What relationship do Inventory and Item have?



# What relationship do Inventory and Item have?



# What relationship do Item and Potion have?



# What visibility does inventory in character have?



# What visibility does getInventory() in character have?



# Overriding is...

	Same name, same parameters, but in a subclass		Same name, same parameters, but in a superclass		Same name, different parameters
---------------------------------------------------------------------------------------	-----------------------------------------------------------	---------------------------------------------------------------------------------------	-------------------------------------------------------------	---------------------------------------------------------------------------------------	---------------------------------------

# Overloading is...

Same name, same parameters, but in a subclass	Same name, same parameters, but in a superclass	Same name, different parameters



# Upcast

		
Always safe, must be done explicitly	Always safe, can be done implicitly	Not always safe, could throw an error

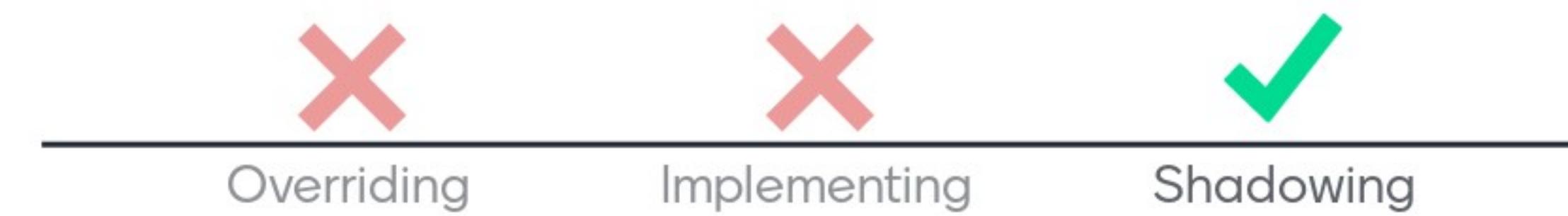
# Downcast



# Downcast



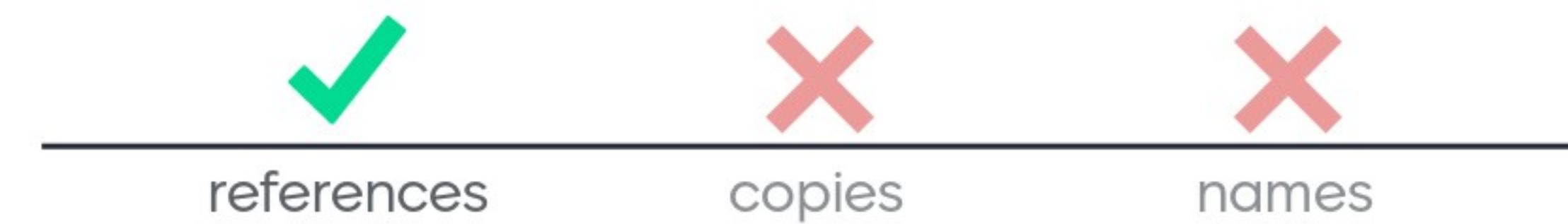
# Attribute with the same name in a subclass as one that already exists in the superclass



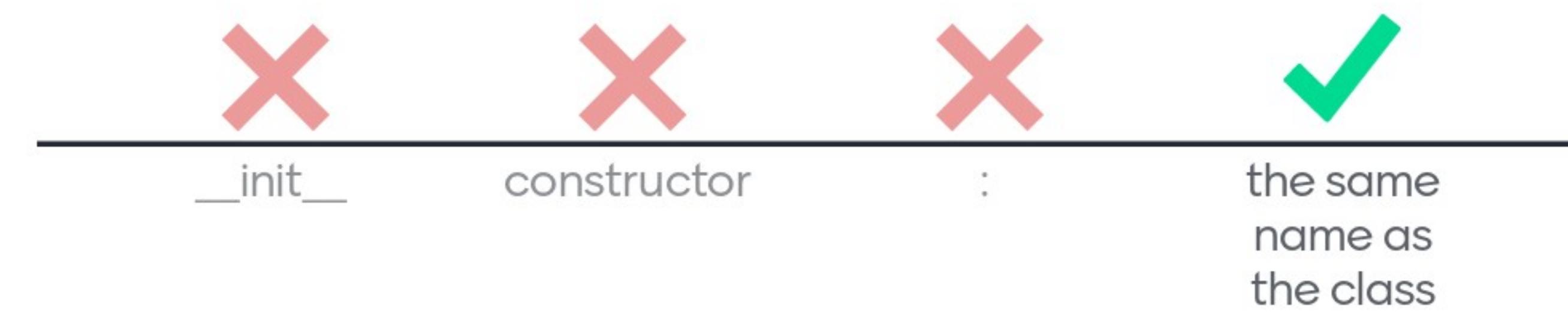
# In Java when I call a method, the arguments are passed



# Even though its call-by-value, the values passed are usually



# Java constructors are named



# Abstract classes provide



# Concrete (normal) classes provide



# Interfaces provide



# What's the quick rule of thumb to determine if something should be an inheritance?

✗	✓	✗	✗	✗	✗
Can be used anywhere another class is used without breaking things	"is a"	Has a few method signatures in common with other classes	weak "has a" / whole& parts	"made out of its own" / strong "has a"	"knows about"/ "goes well with"



# What's the Liskov Substitution principle to determine if something should be an inheritance?

✓	✗	✗	✗	✗	✗
Can be used anywhere another class is used without breaking things	"is a"	Has a few method signatures in common with other classes	weak "has a" / whole& parts	"made out of its own" / strong "has a"	"knows about"/ "goes well with"



# What's the quick rule of thumb to determine if something should be an association?

✗	✗	✗	✗	✗	✓
Can be used anywhere another class is used without breaking things	"is a"	Has a few method signatures in common with other classes	weak "has a" / whole& parts	"made out of its own" / strong "has a"	"knows about"/ "goes well with"



# What's the quick rule of thumb to determine if something should be an aggregation?

✗	✗	✗	✓	✗	✗
Can be used anywhere another class is used without breaking things	"is a"	Has a few method signatures in common with other classes	weak "has a" / whole& parts	"made out of its own" / strong "has a"	"knows about"/ "goes well with"



# What's the quick rule of thumb to determine if something should be an composition?

✗	✗	✗	✗	✗	✓
Can be used anywhere another class is used without breaking things	"is a"	Has a few method signatures in common with other classes	weak "has a" / whole& parts	"made out of its own" / strong "has a"	"knows about"/ "goes well with"



# Is composition relationship enforced in Java?



# For a composition relationship...

	Part instances are deleted when the Whole instance is	Doesn't have a Whole and Part(s) style relationship	Part instances can be shared (they aren't exclusive)
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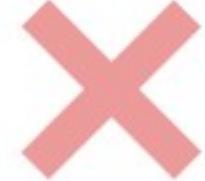


# For an aggregation relationship...

Part instances are deleted when the Whole instance is	Doesn't have a Whole and Part(s) style relationship	Part instances can be shared (they aren't exclusive)



# For an association relationship...

		
Part instances are deleted when the Whole instance is	Doesn't have a Whole and Part(s) style relationship	Part instances can be shared (they aren't exclusive)

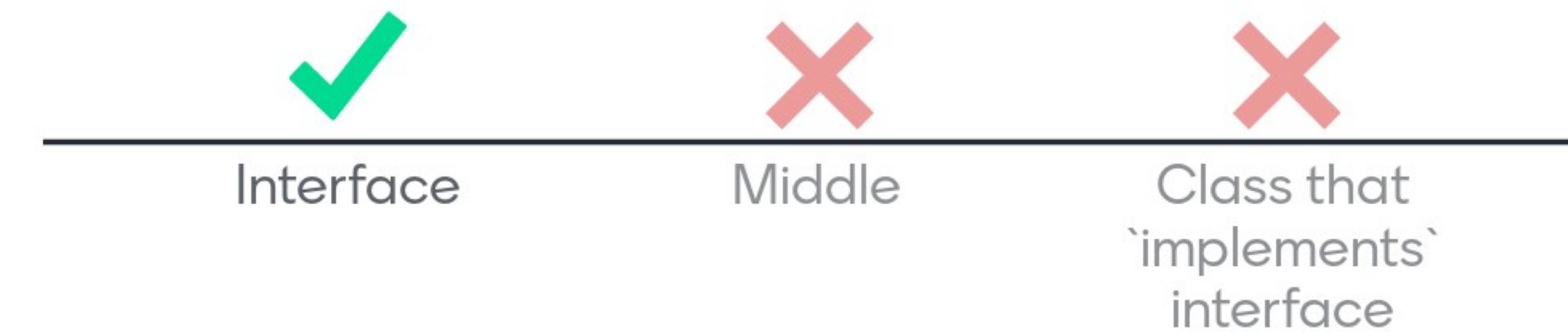
# The diamond goes on the side of the ...



# The arrow goes on the side of the ...



# The arrow goes on the side of the ...



end

