

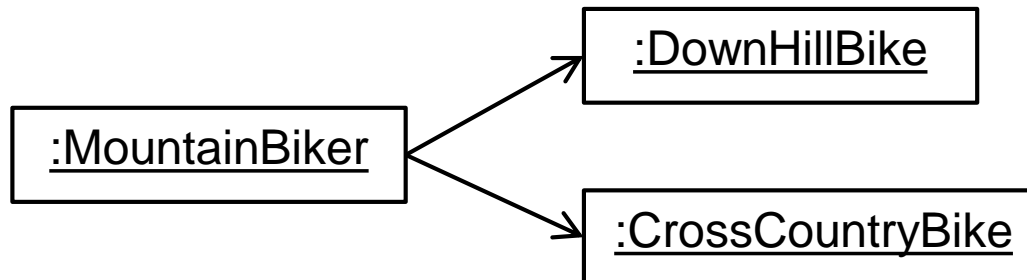
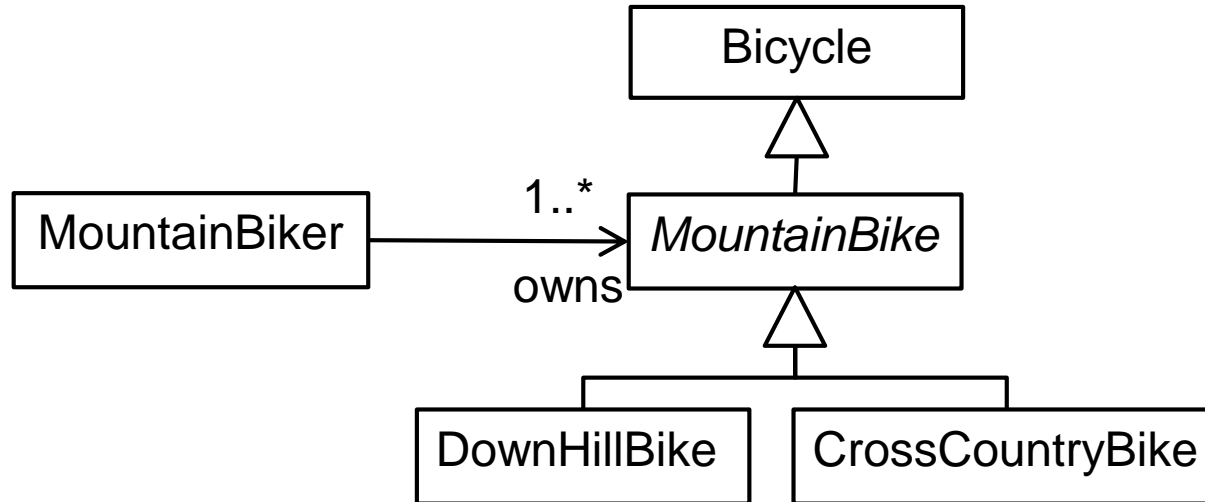
Modelling Quizzes



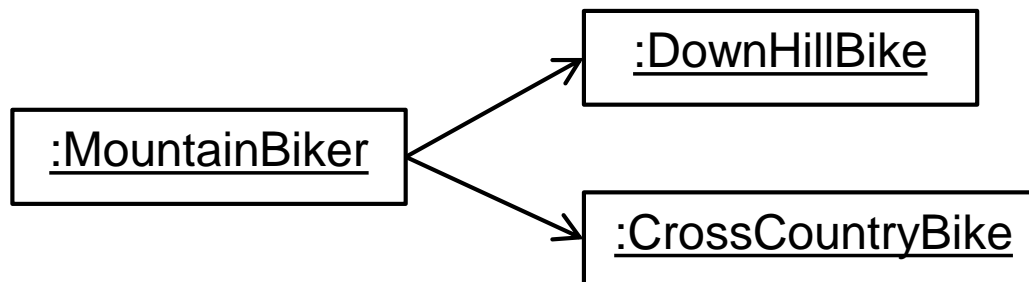
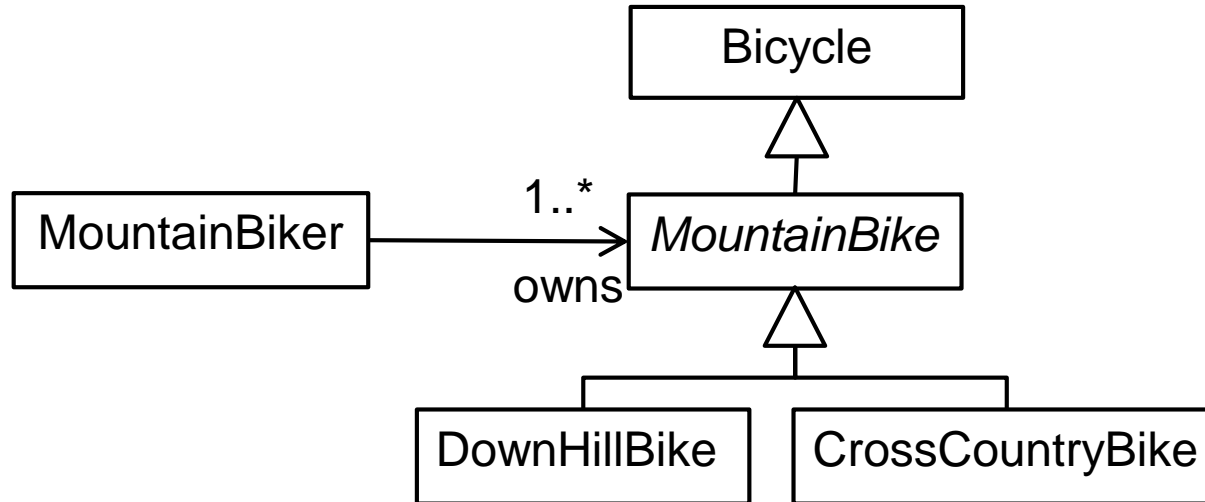
Juan de Lara, Elena Gómez, Esther Guerra
{Juan.deLara, MariaElena.Gomez, Esther.Guerra}@uam.es

Computer Science Department
Universidad Autónoma de Madrid

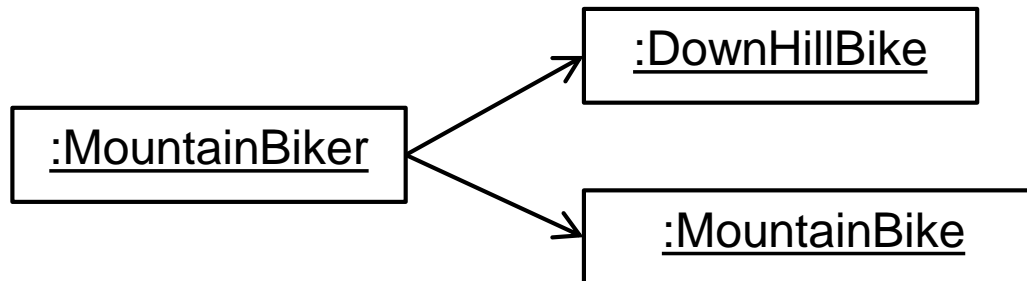
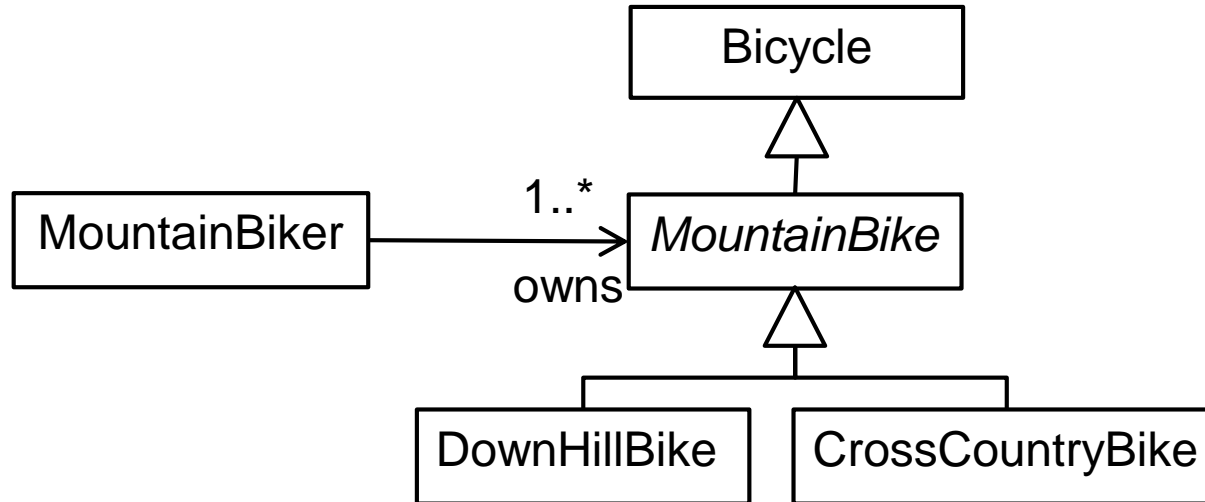
Is the object diagram correct?



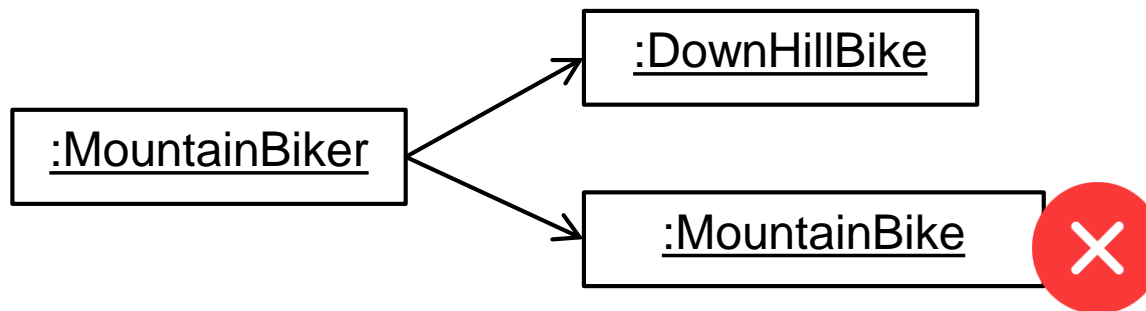
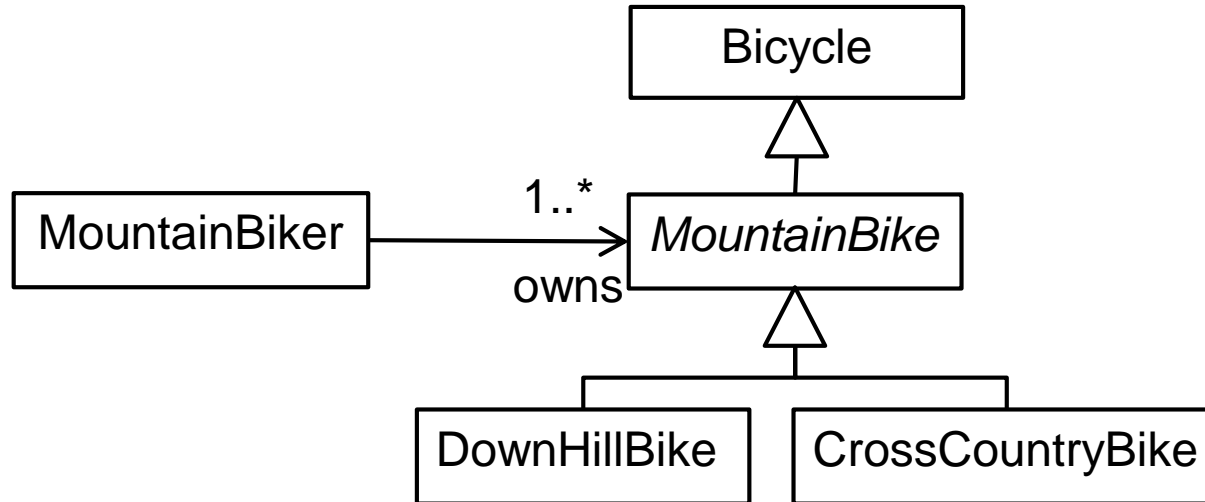
Is the object diagram correct?



Is the object diagram correct?

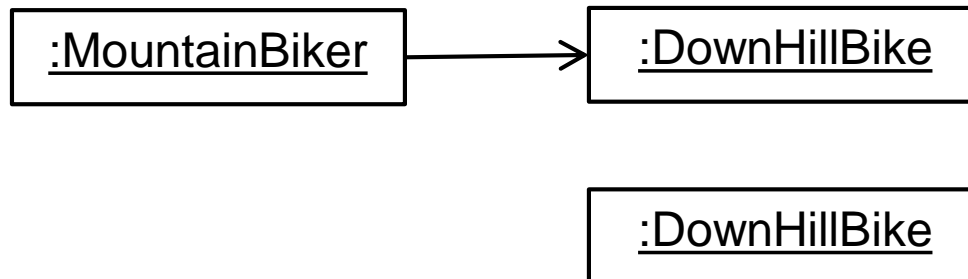
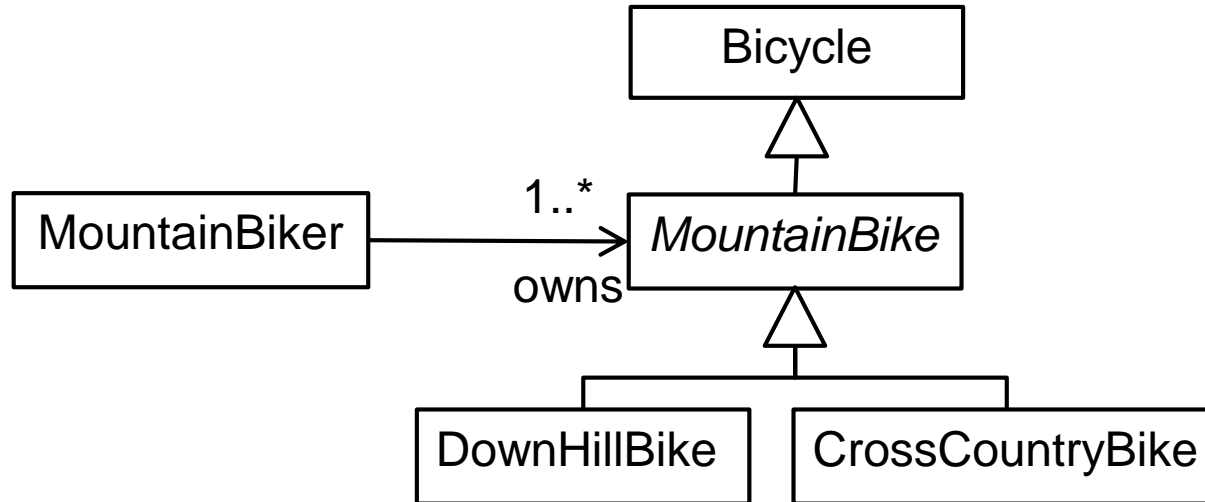


Is the object diagram correct?

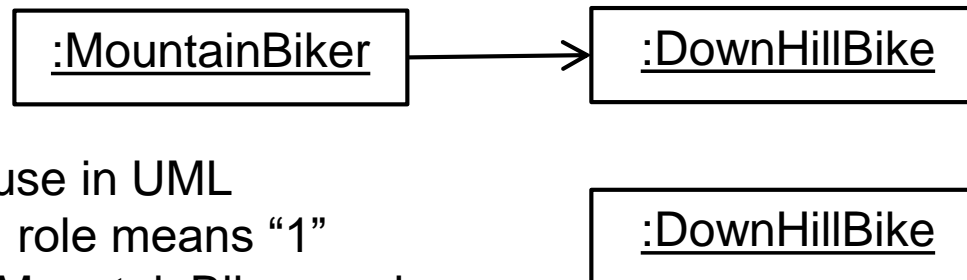
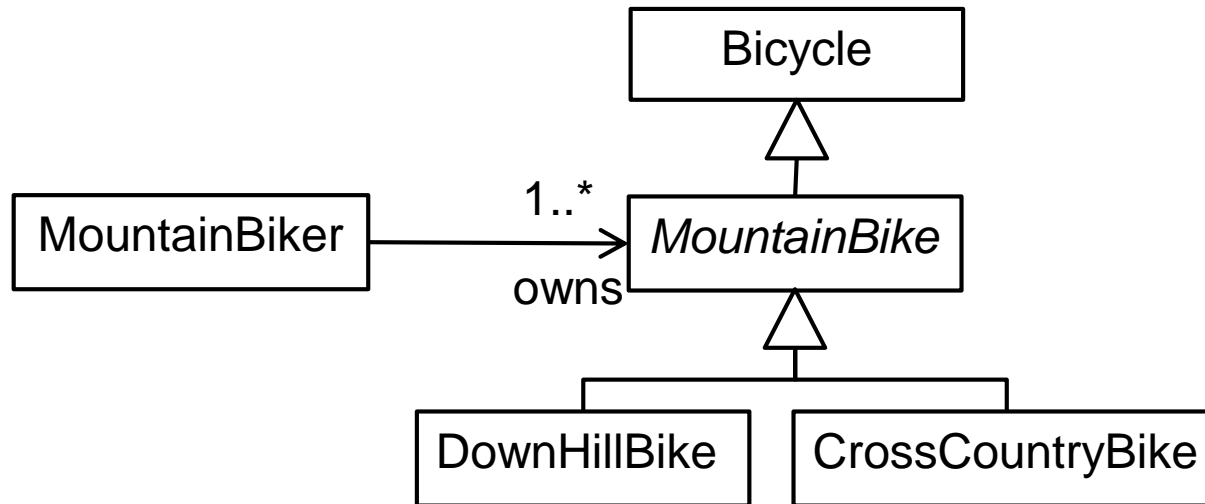


We cannot
instantiate abstract
classes!

Is the object diagram correct?

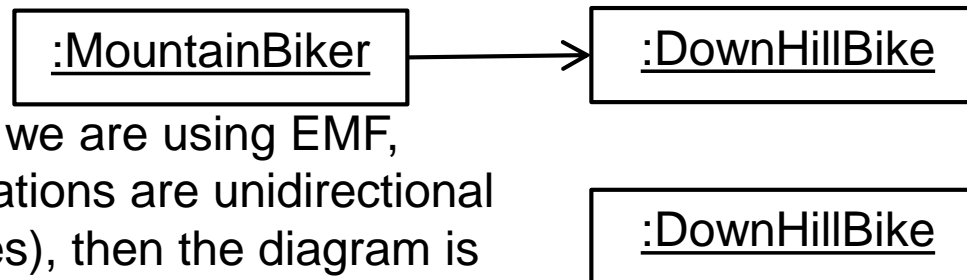
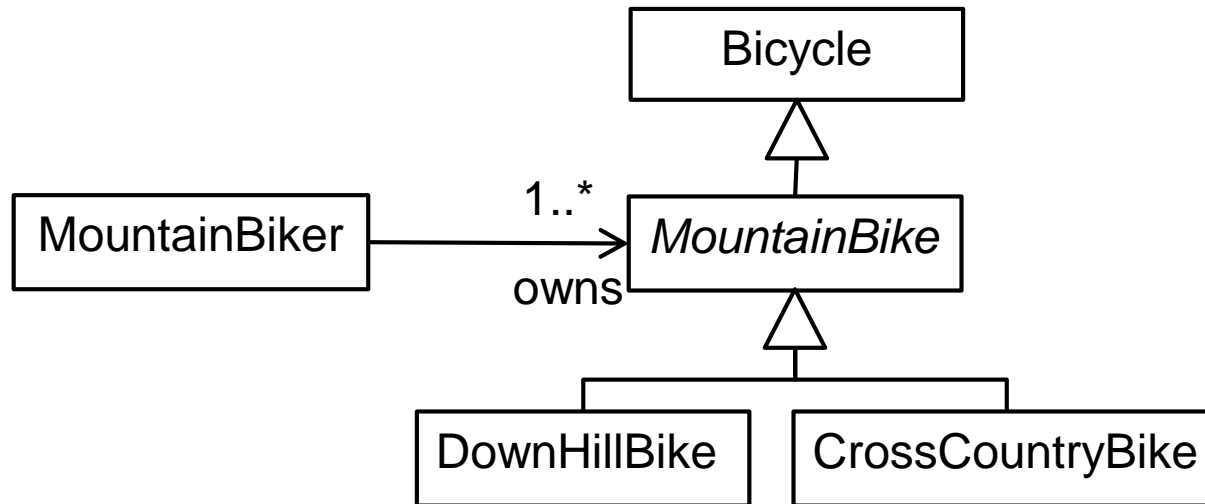


Is the object diagram correct?



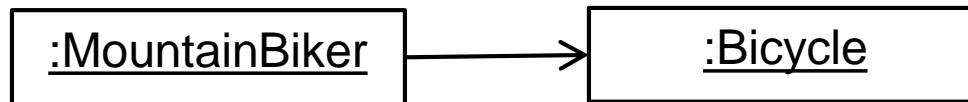
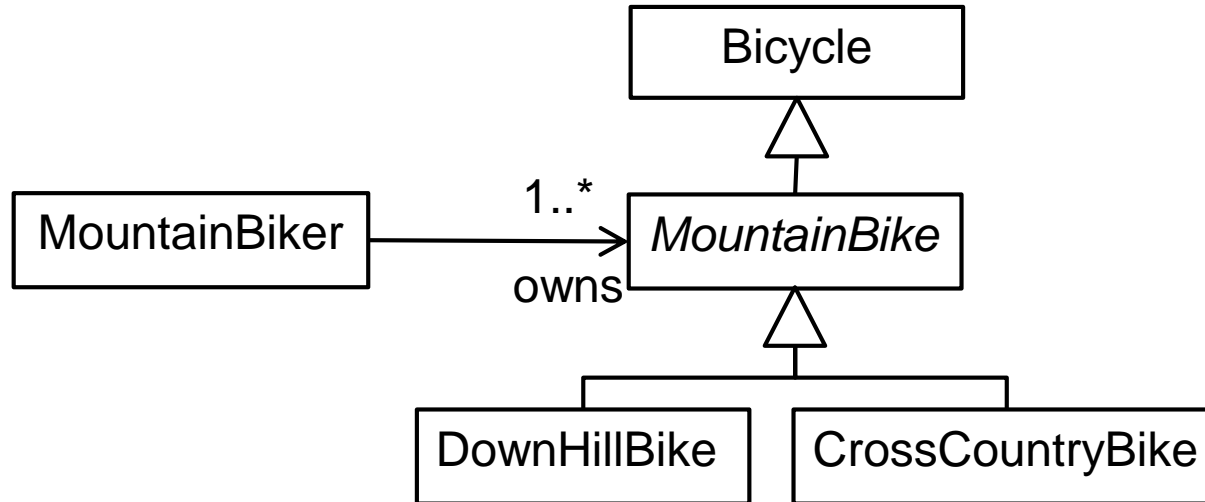
Wrong, because in UML
an unlabelled role means "1"
and so each MountainBike needs
an owner

Is the object diagram correct?

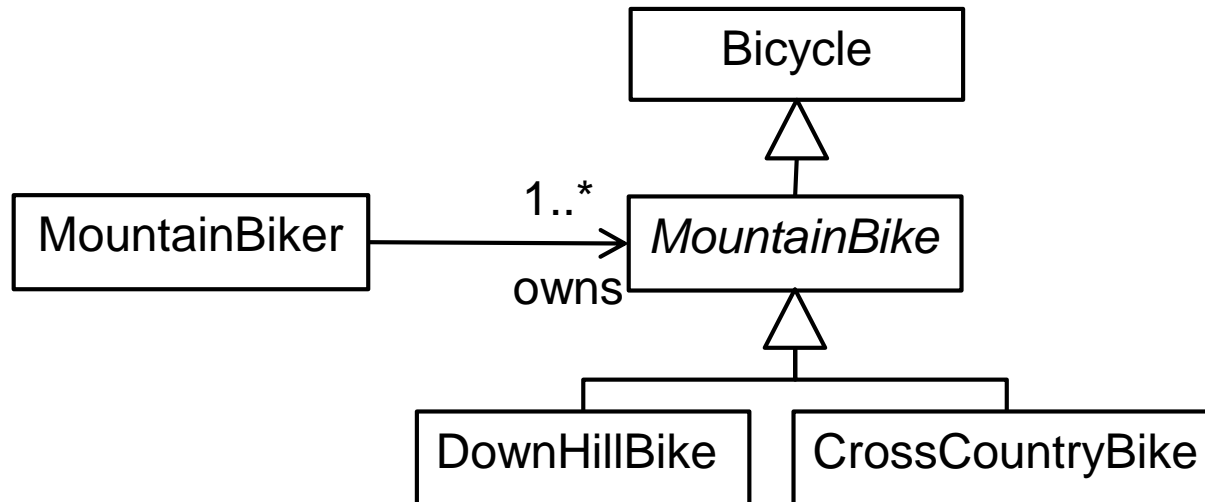


If we assume we are using EMF, where associations are unidirectional (ie., references), then the diagram is correct (as we are not saying anything about the number of owners of a MountainBike)

Is the object diagram correct?

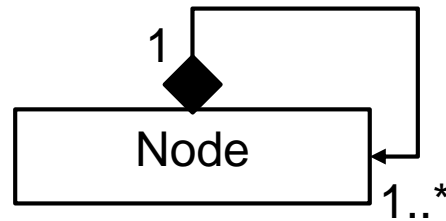


Is the object diagram correct?

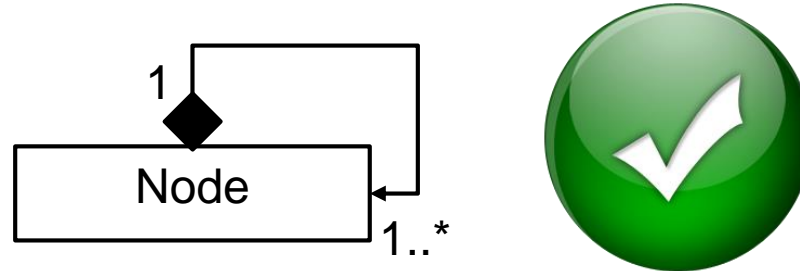


“owns” is not compatible with Bicycle
unless they are also of type MountainBike

Is this class diagram correct?

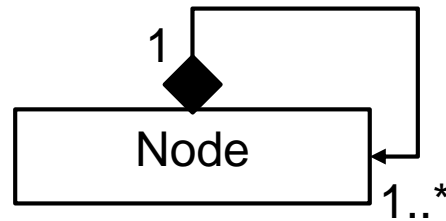


Is this class diagram correct?

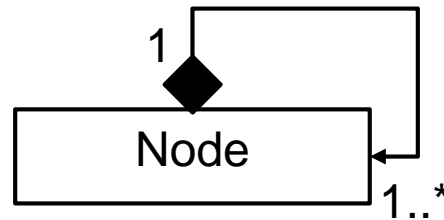


It is **syntactically** correct

Please create a valid object model



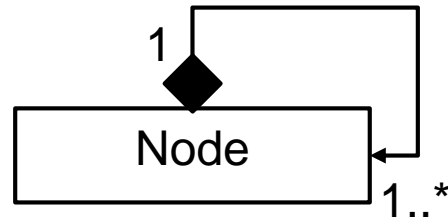
Please create a valid object model



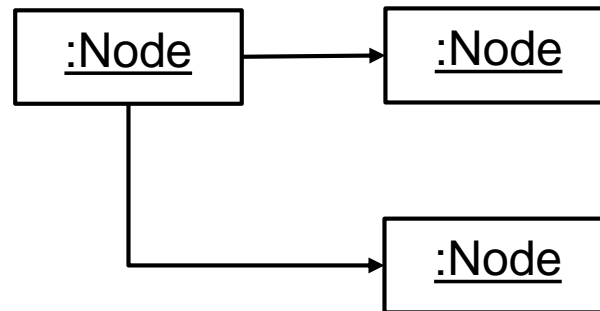
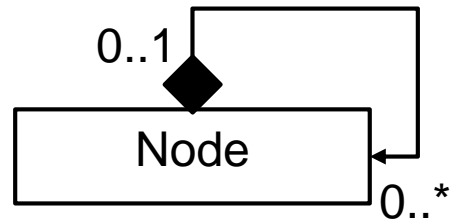
**There is
none!**



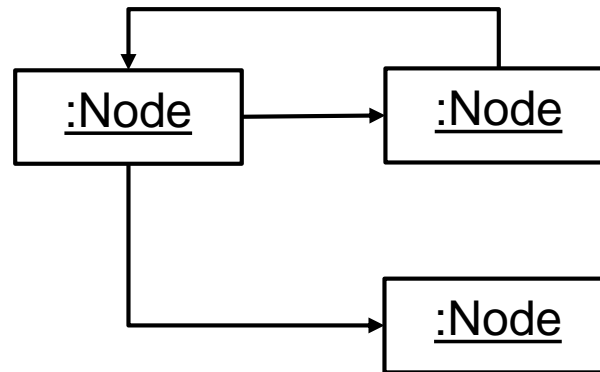
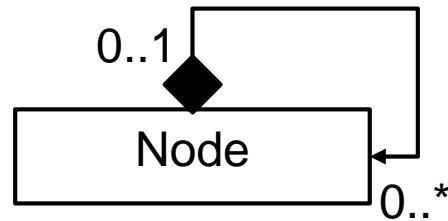
Can we fix it?



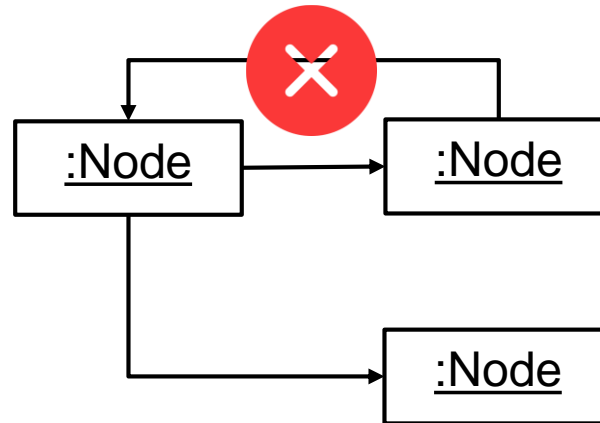
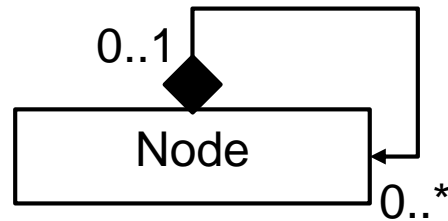
Can we fix it?



Is the object model correct?

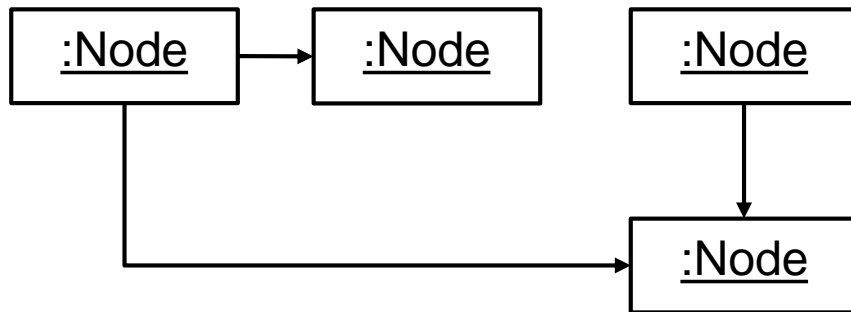
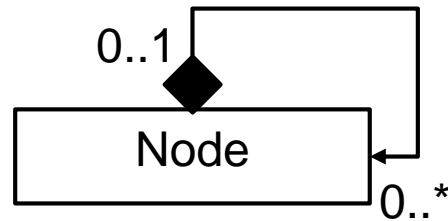


Is the object model correct?

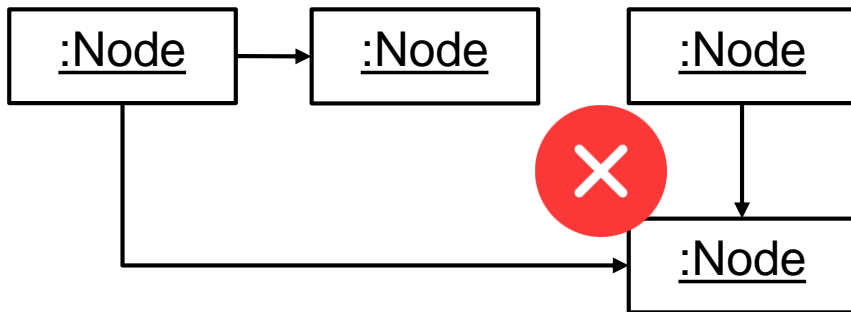
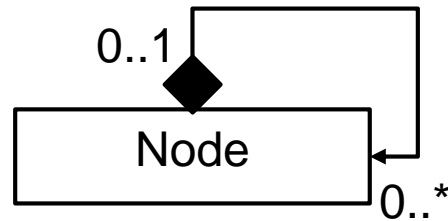


No cycles allowed!!

Is the object model correct?

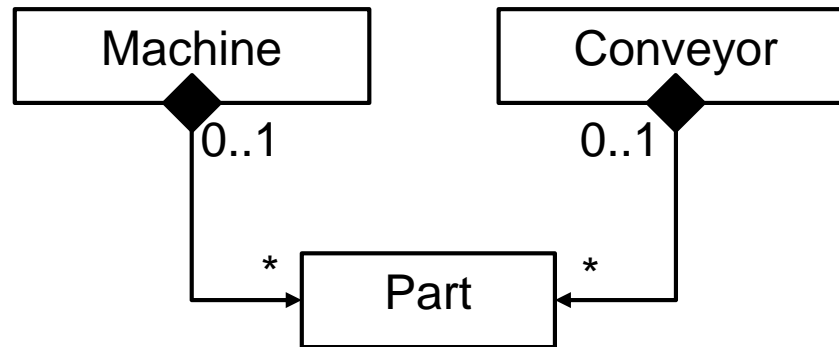


Is the object model correct?

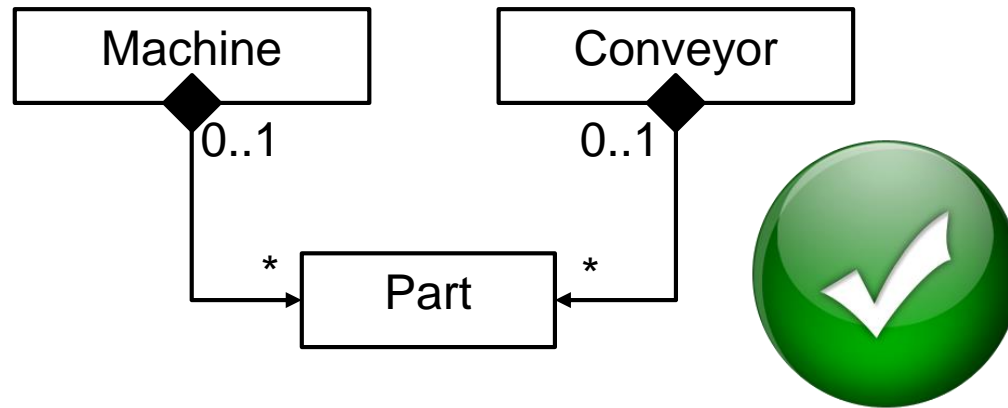


Upper cardinality!

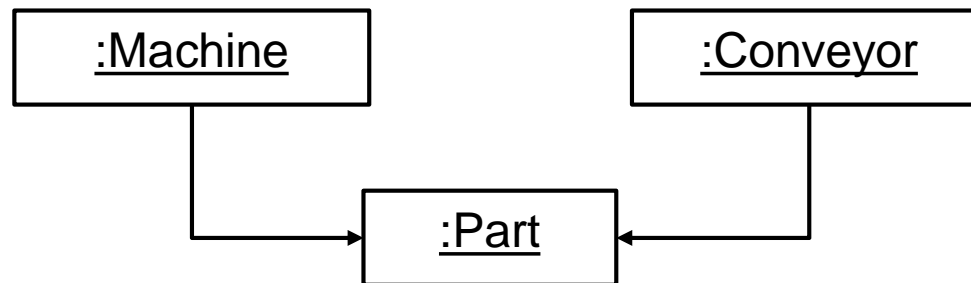
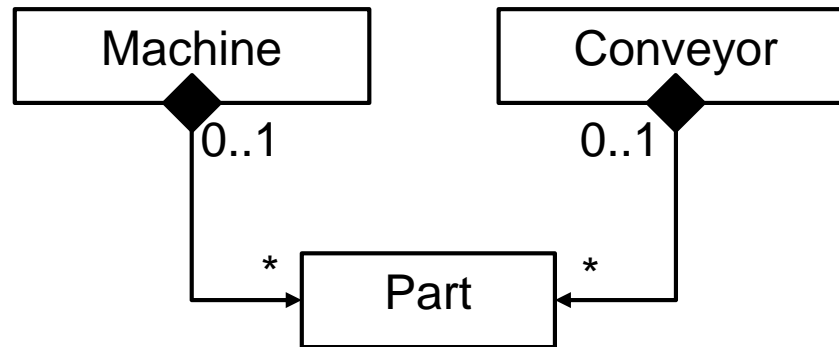
Is this class diagram correct?



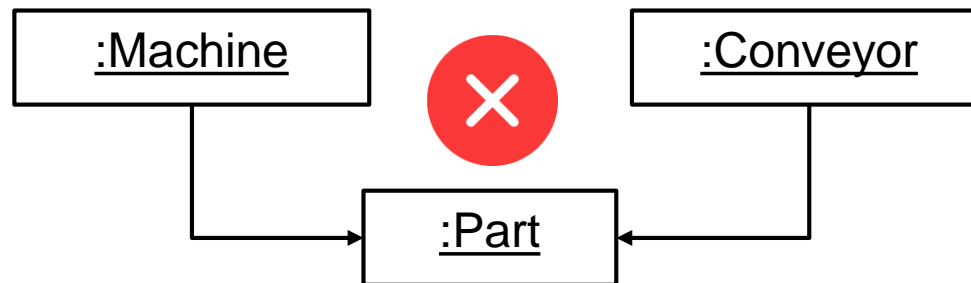
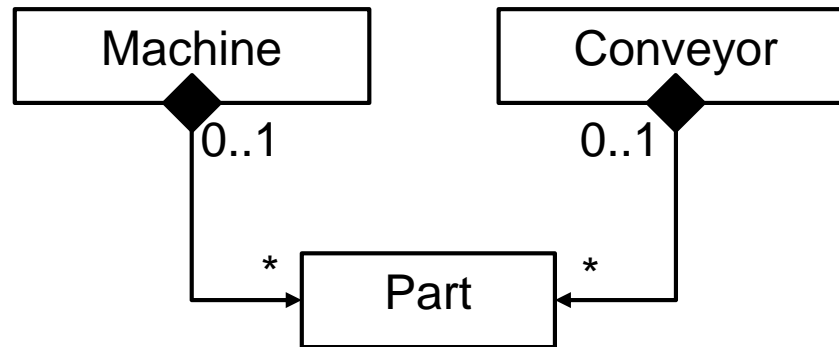
Is this class diagram correct?



Is this object diagram correct?



Is this object diagram correct?



No sharing
between
containers!