UML Puzzle – Part I





1

Which of the following sentences can apply to the class model?

- a) "Be your own boss"
- b) "Neither a leader nor a follower be"
- c) "Sitting at the top of the tree"
- d) "Too many chiefs, not enough Indians"





How many *bidirectional* relationships exist in this model?









What state(s) is the object in after this sequence of events?



Solutions





a, c and d can be applied to the model.



John is his own boss. This is a valid instance of the model.



John has neither a boss nor employees, but the model says that every Person must have exactly one boss. This is not a valid instance of the model. Which of the following sentences can apply to the class model?

a) "Be your own boss"

d)

- b) "Neither a leader nor a follower be"
- c) "Sitting at the top of the tree"
 - "Too many chiefs, not enough Indians"



Since a person can be a boss AND an employee (effectively a parent *and* a child), and since a Person need not have employees (i.e., it can be a leaf *or* a branch) we can build trees using this model



parlezium

It is indeed possible to have more bosses than non-bosses



How many *bidirectional* relationships exist in this model?

- 3
- A <-> B B <-> C
- B <-> D



2







What state(s) is the object in after this sequence of events?

● -> a -> b -> c -> b -> g -> a





● -> a -> b -> c -> b -> g -> a



On entering super-state E for the second time, the object is returned to that last sub-state it was in, which is C (because the "H" stands for "history state)

The object ends in the super-state E and the sub-state C

