**Diagram of LinkedList from java api**

LinkedList is a doubly linked list and it has references to first and last nodes

LinkedList

first

last

null

Node

data

next

prev

Node

data

next

prev

Node

data

next

prev

Joe

Sue

Tim

null

What references must to be updated to insert a node in the middle e.g. between first and second nodes?

What references must be updated to remove a middle node e.g. remove the middle node?

Show updates on diagram.