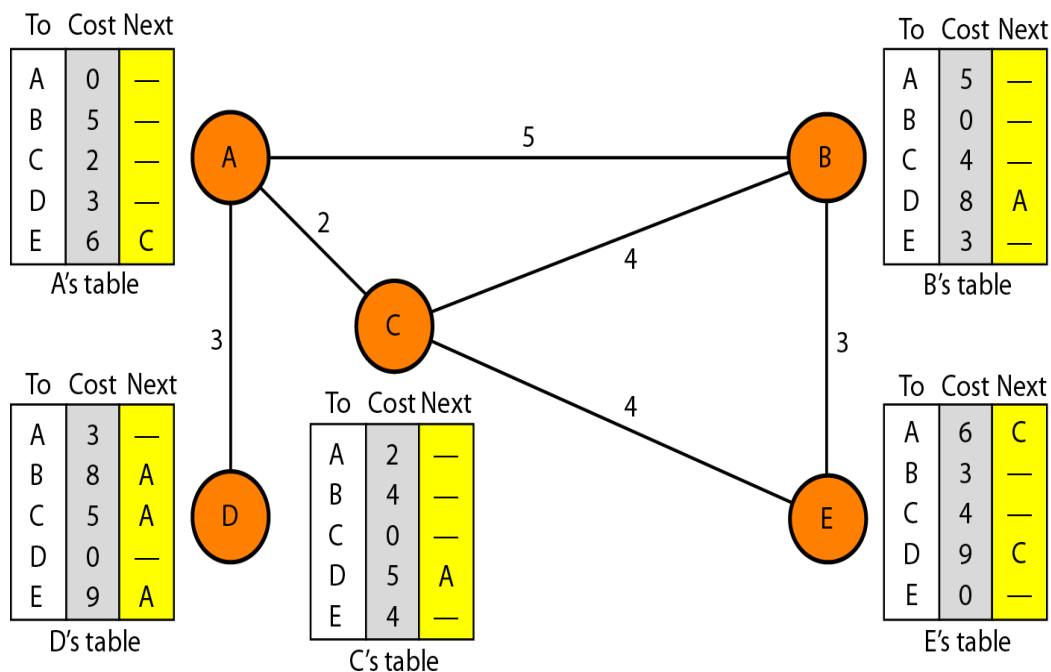


# Computer Networks

## Lab 6 Assignment

### Task 1: Network Layer: Forwarding

1. Add *Network Layer* in between *Application Layer* and *Data-Link Layer* in the node defined in Lab 3.
2. Create a network (name “*forwardingNetwork*”) with five nodes, which are connected in following network topology.



3. Network Layer of the node will either accept the packet (if packet belongs to the same node) or forward the packet with the help of forwarding table implemented on each node (as defined in above figure). (Hint: use *map* (<http://www.cplusplus.com/reference/map/map>) data-structure to define the forwarding table)
4. Following value to be specified in omnetpp.ini file
  1. Source and Destination address
  2. Number of Packets to be sent
  3. Frame loss
5. Visualize (plot) *Delay* of packets (with min, max, and mean information)