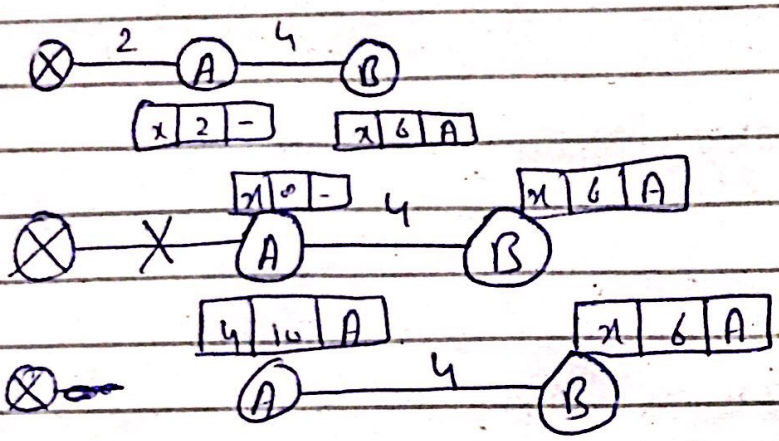
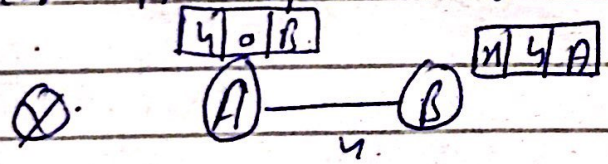
M. Ishfaq Malik
P19-0033
Section SA

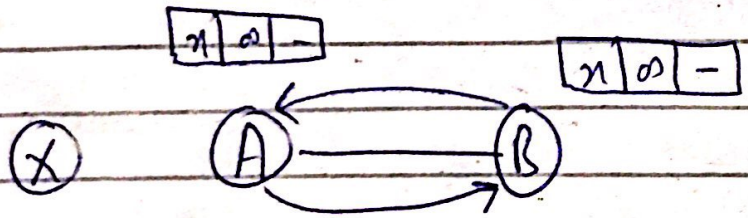
Q1:



After A update from B then,



After B receives update from A

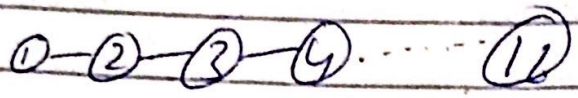


Instable state

1) Solution

(1) Defining infinity values => (16)

Problem



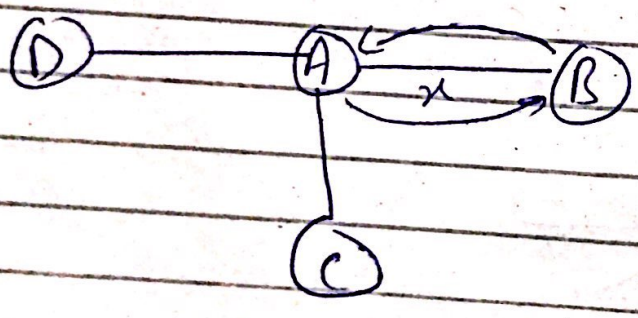
16 × DVR

DVR cannot be used in large system.

Solution.

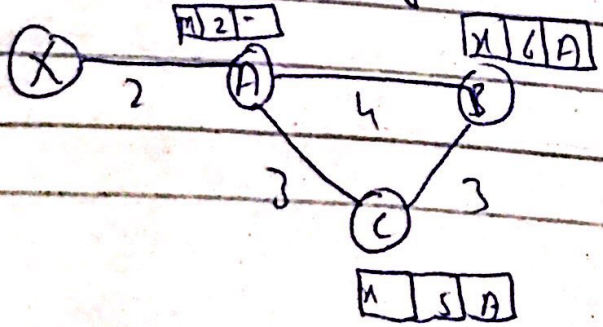
② Split horizon:

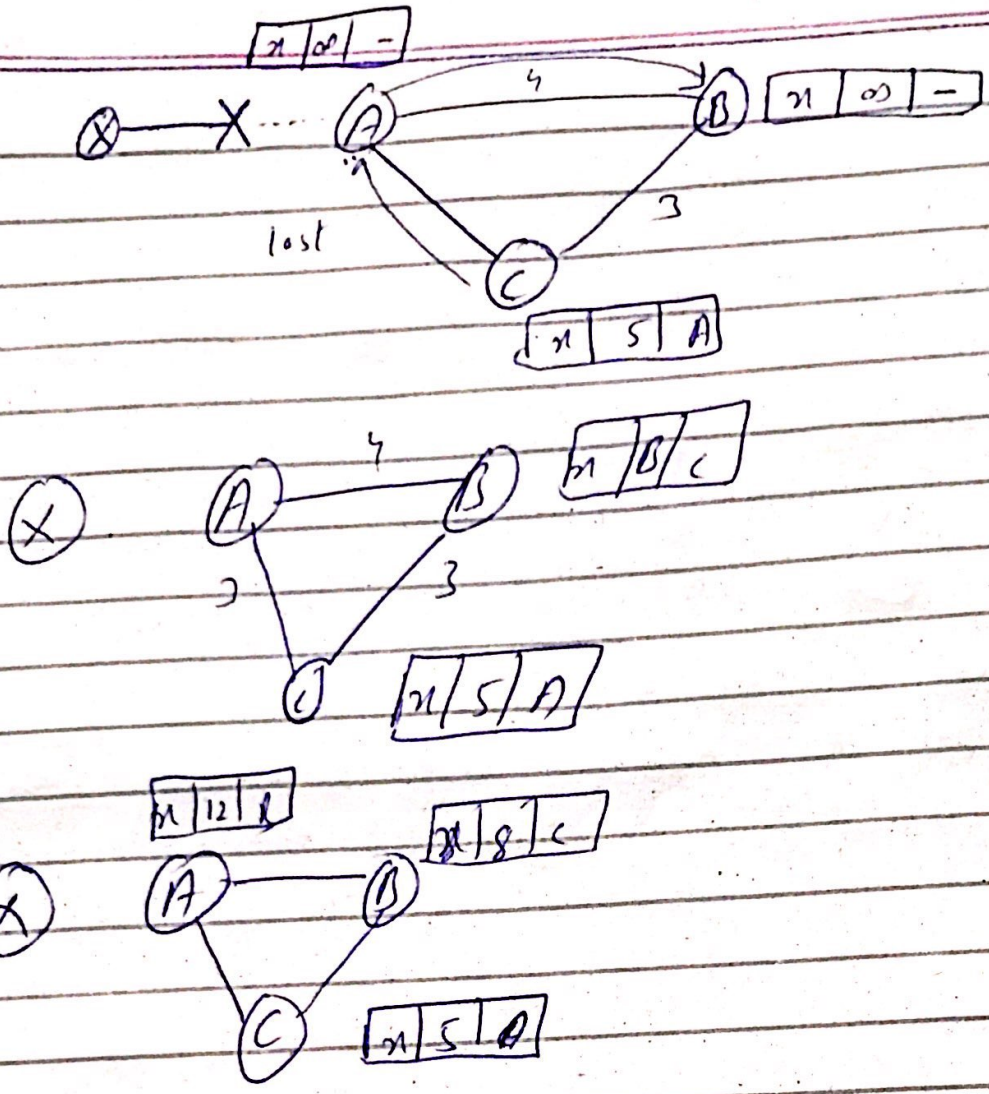
Each node sends part of its table through each interface.



Timeout situation will occur, B will delete all of entries of A's node.

Three node instability





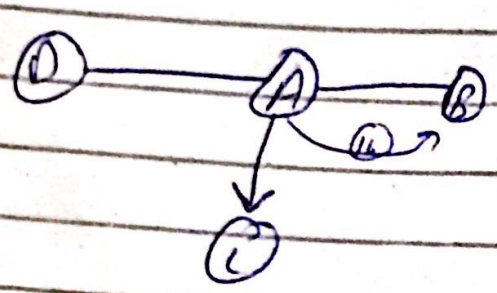
Split Horizon:

It is a method used by distance vector protocols to prevent network routing loops. Basic Principle is to never send routing information back in the direction from it was received.

We need split horizon because distance vector ~~protocols~~ protocols, such as routing information protocol, are susceptible to routing ~~information protocol, can~~ loops which occur when a data packet is caught in an endless

circle and continously routed through the same routes.

Split Horizon and position Reverse.



B receives update from A as 16 means A is alive but cannot send output packet.