

FACULTY OF ENGINEERING & TECHNOLOGY

DCS-503 Computer Networks

Lecture-19

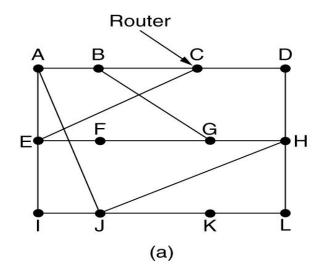
Mr. Dilip Kumar J Saini

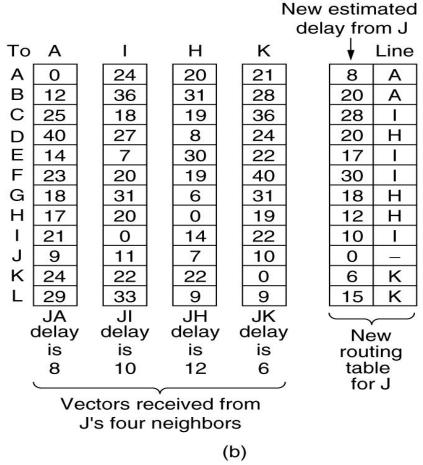
Assistant Professor Computer Science & Engineering

OUTLINE

- >THE NETWORK LAYER PROBLEM PACKET SWITCHING
- >THE NETWORK LAYER PROBLEM: CONNECTIONLESS SERVICE
- >THE PROBLEM NETWORK LAYER: CONNECTION-ORIENTED SERVICE
- >CONNECTIONLESS VS. CONNECTION-ORIENTED
- >SHORTEST PATH ALGORITHM

DISTANCE VECTOR ROUTING

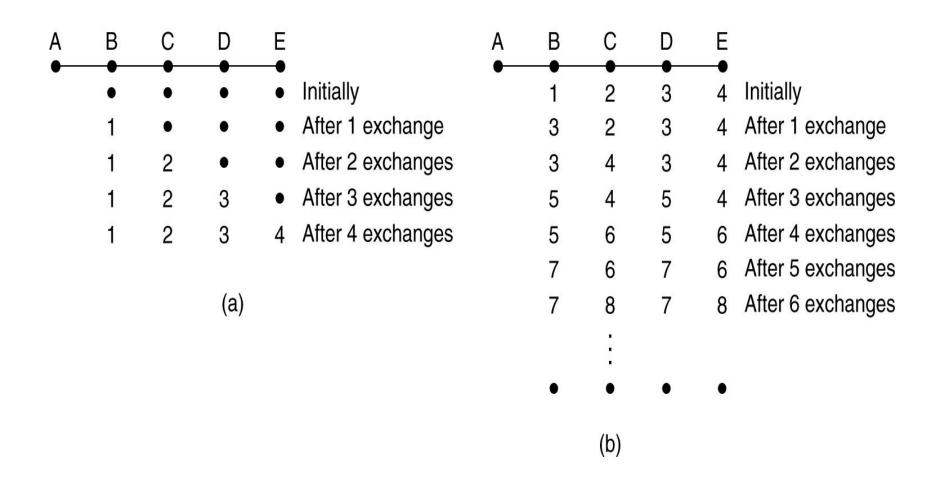




(a) A subnet.

(b) Input from A, I, H, K, and the new routing table for J.

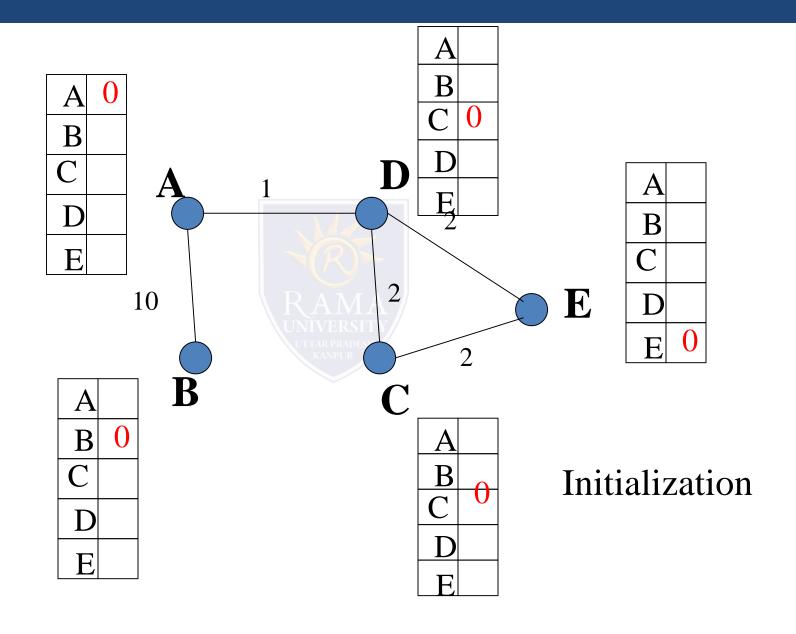
THE COUNT-TO-INFINITY PROBLEM

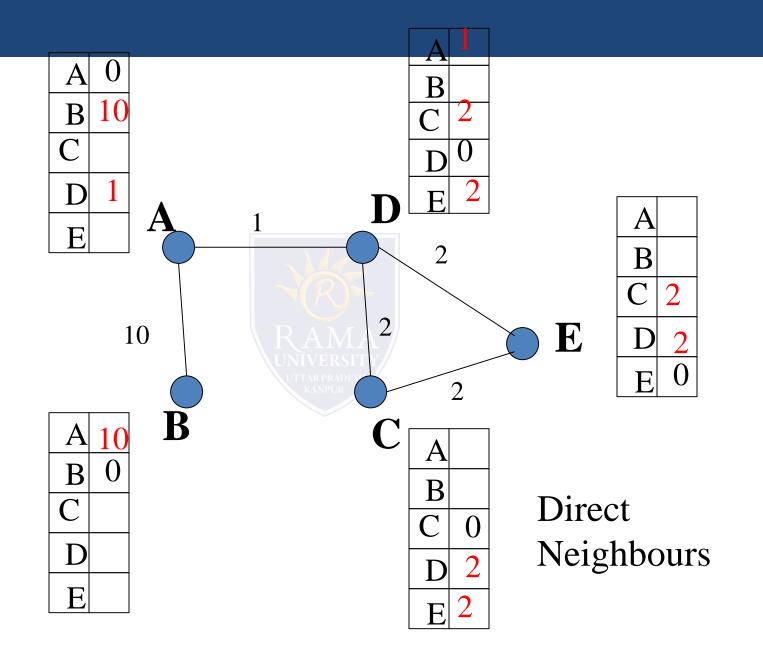


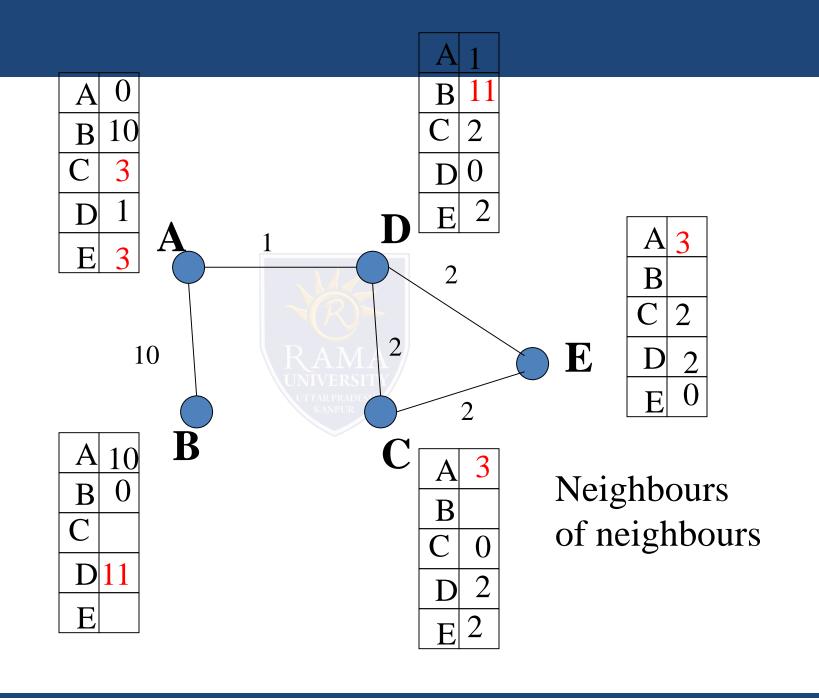
3 Distance Vector Routing (3): Loop-**Breaking**Heuristics

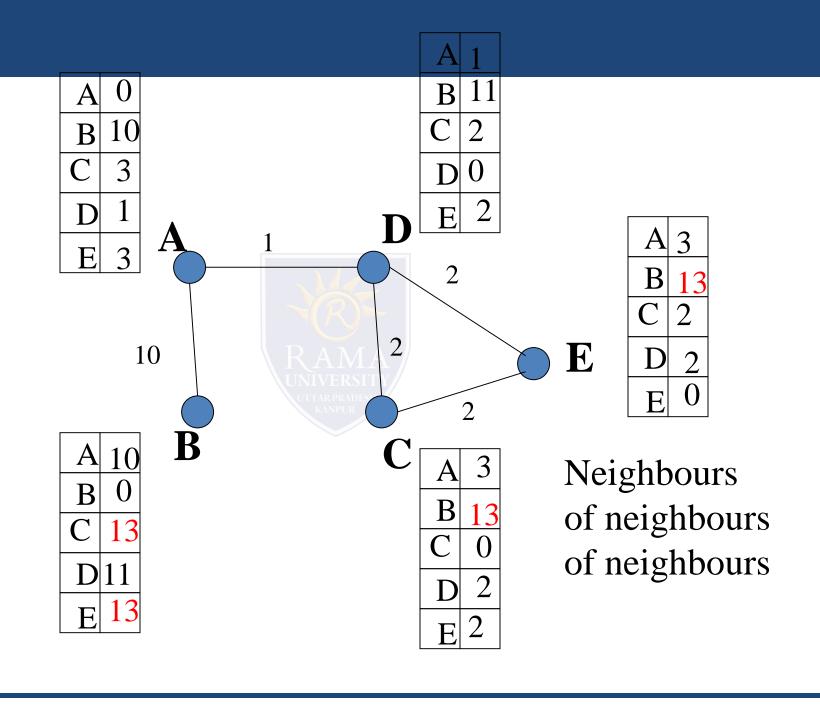
- Set infinity to a limited number, e.g.
 16.
- Split horizon
- Split horizon with poison reverse

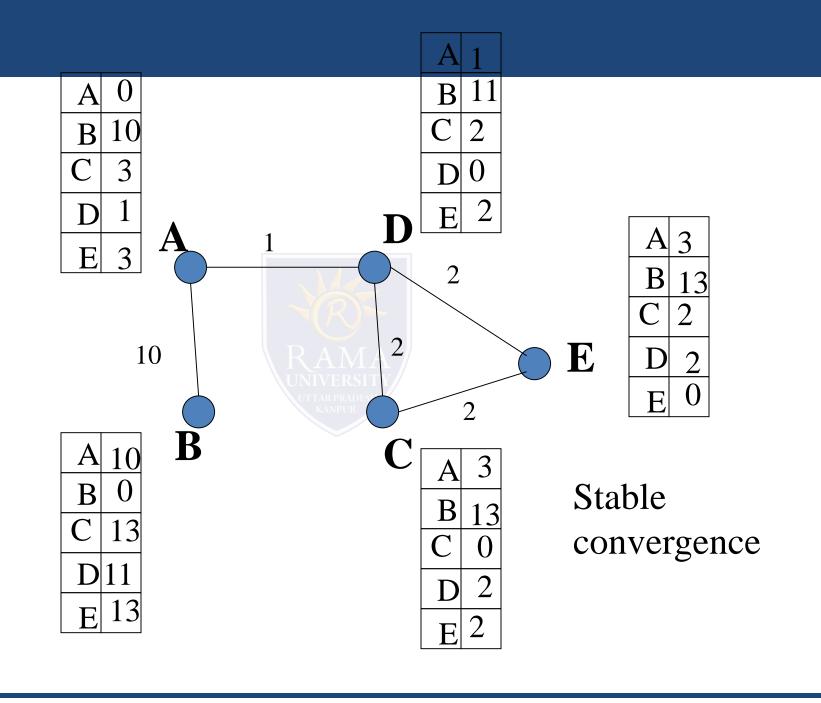
Example

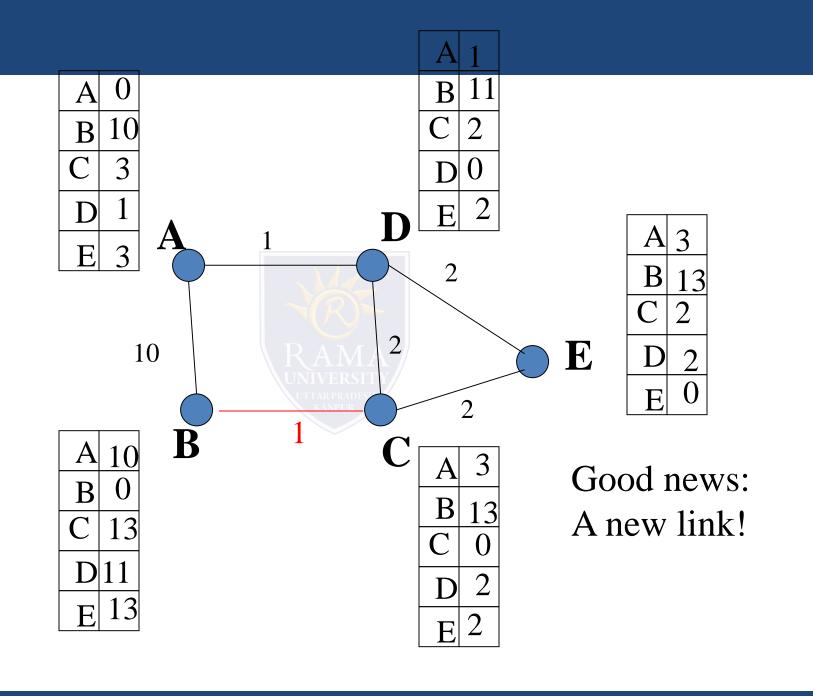


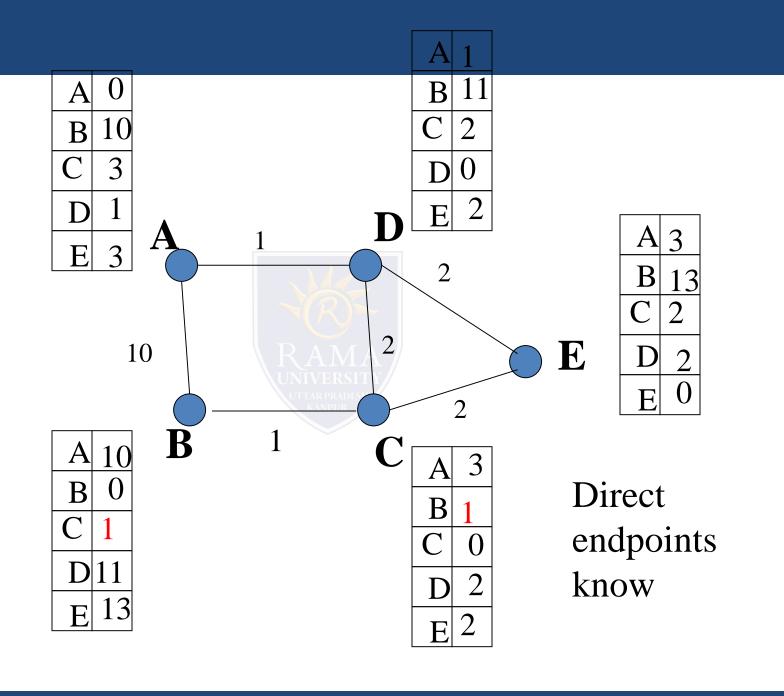


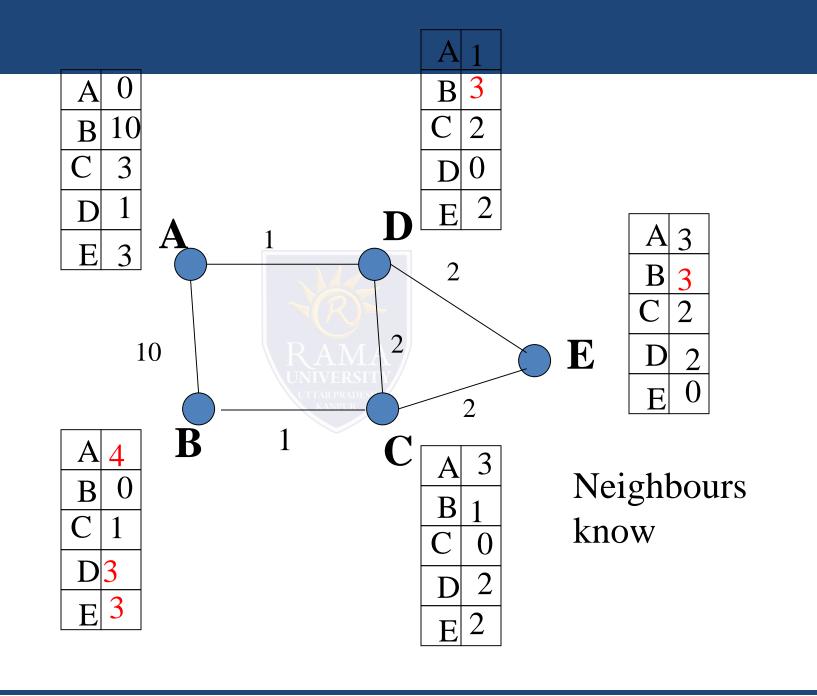


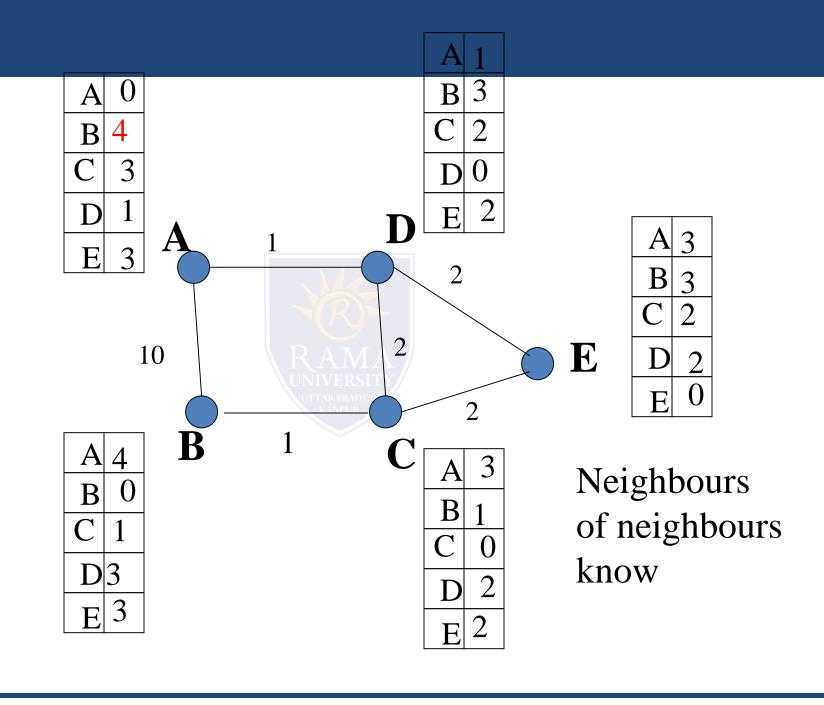


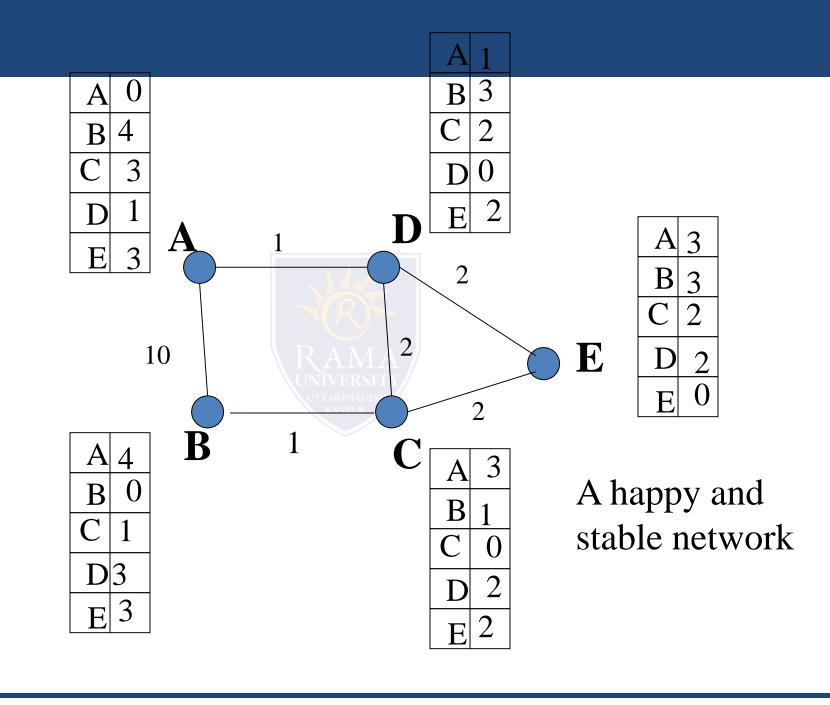


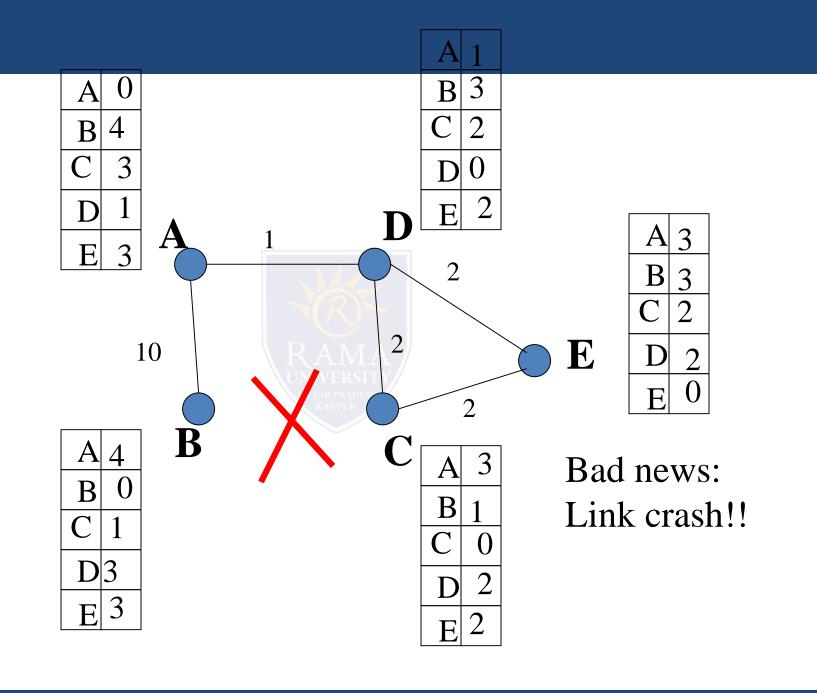


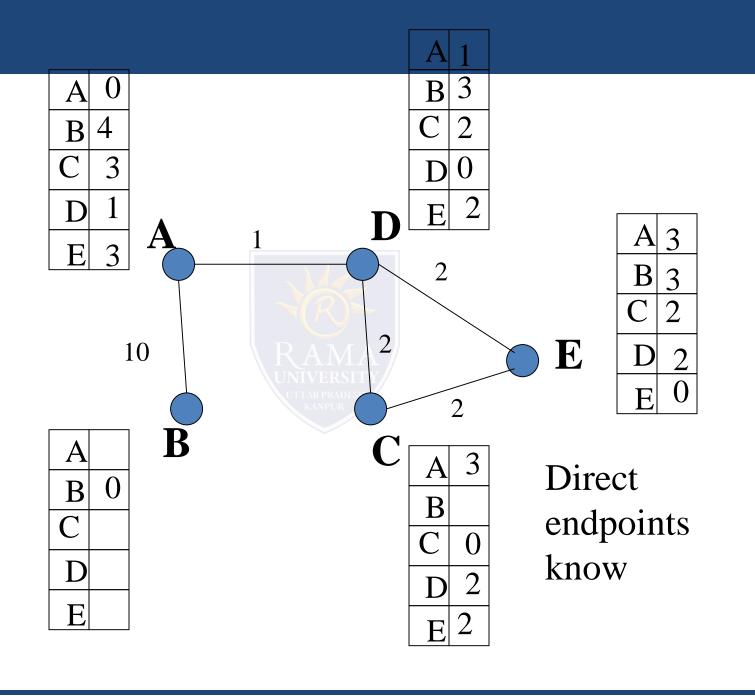


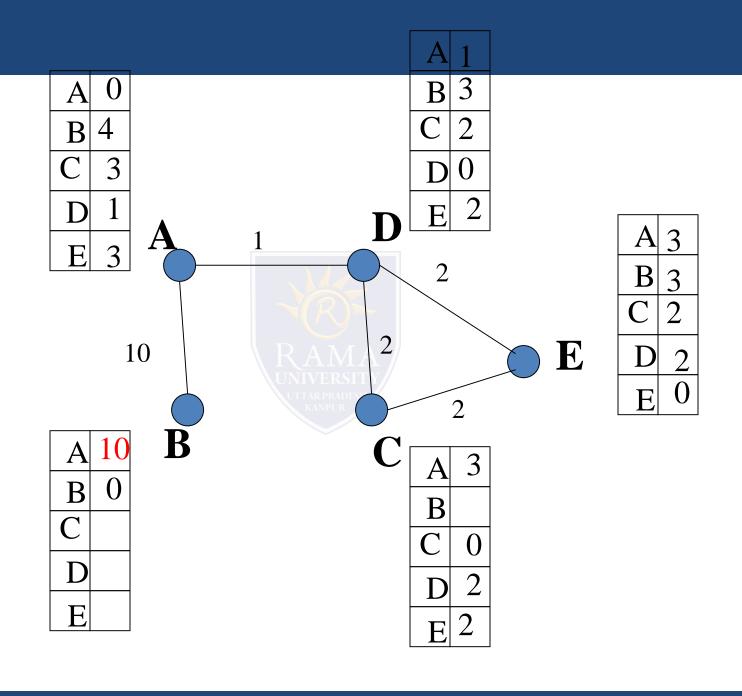


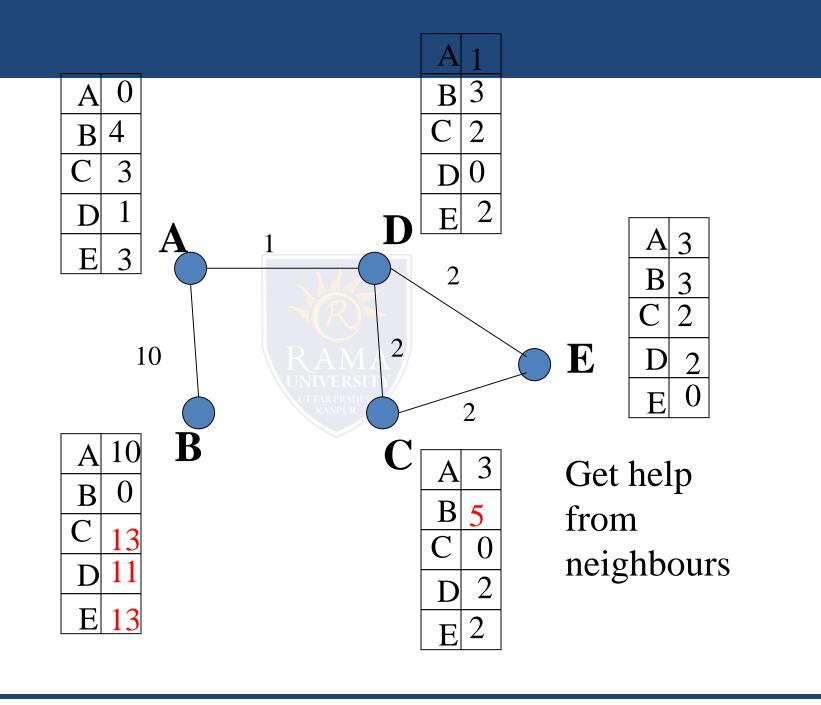


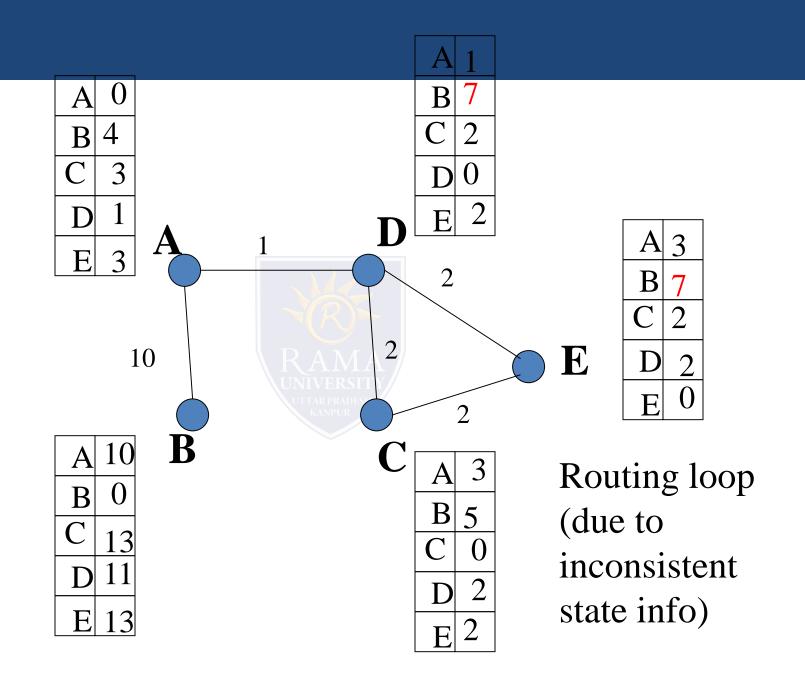


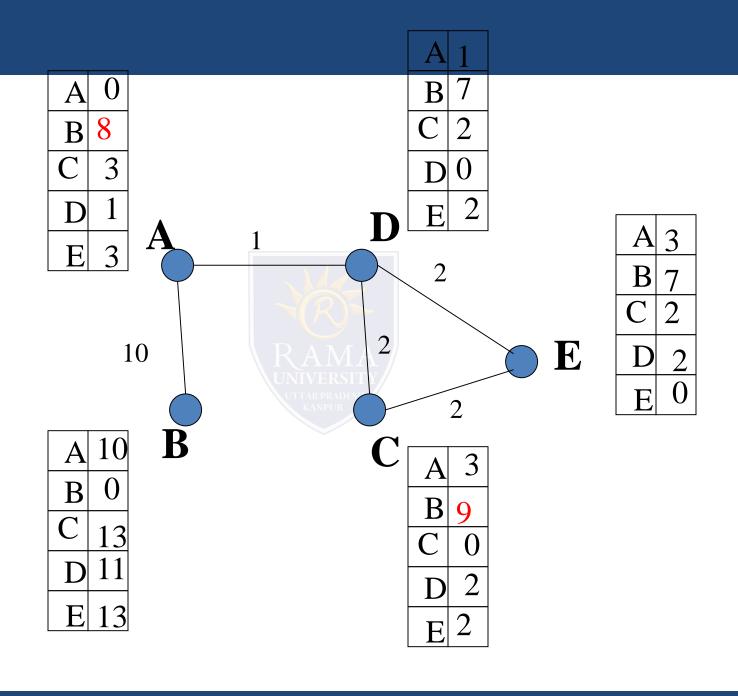


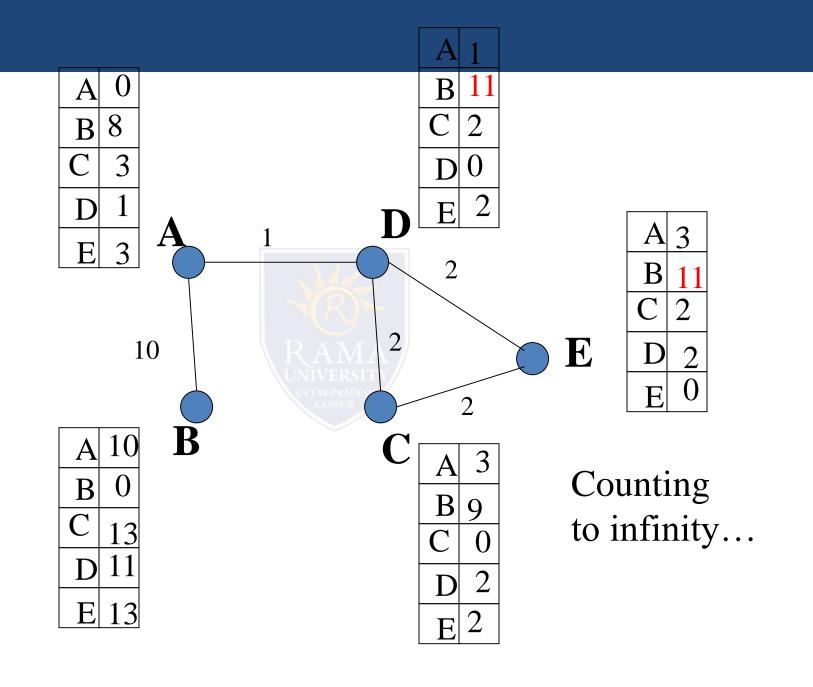


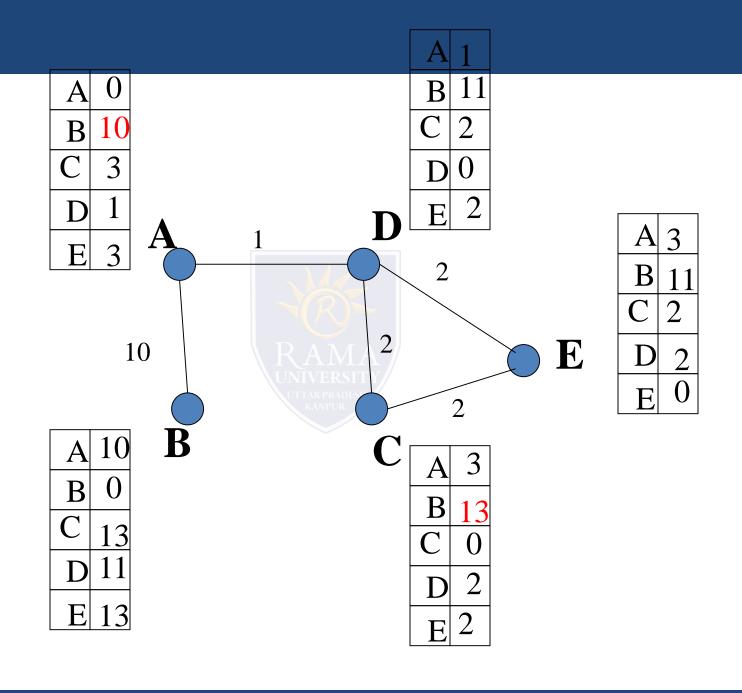


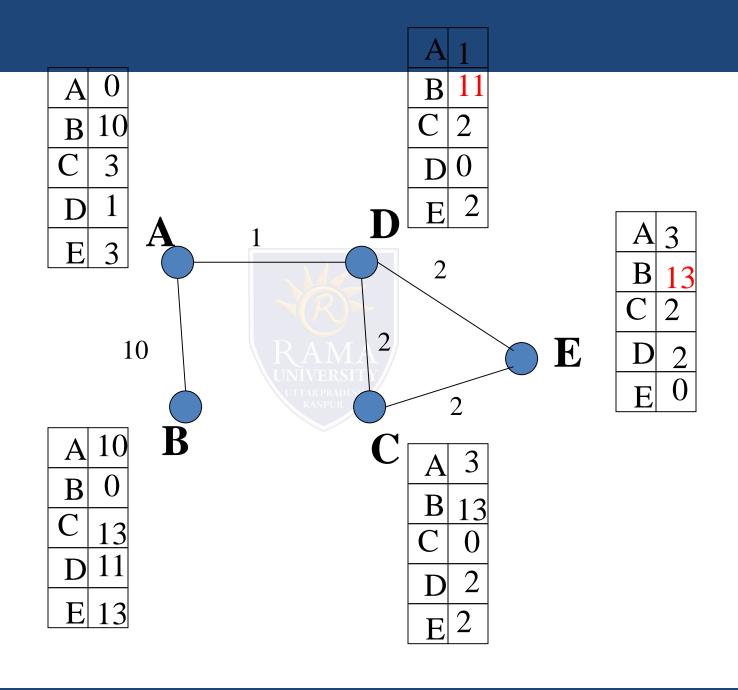


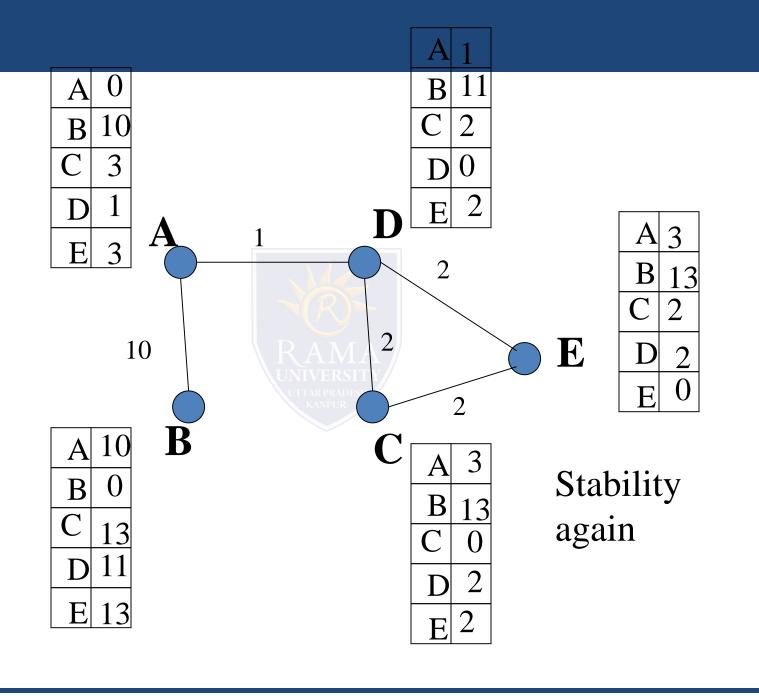












Multiple Choice Question

MUTIPLE CHOICE QUESTIONS:

Sr no	Question	Option A	Option B	OptionC	OptionD
1	What is inter frame gap?	idle time between frames	idle time between frame bits	lbetween packets	idle time between networks
2	. An ethernet frame that is less than the IEEE 802.3 minimum length of 64 octets is called	short frame	runt frame	mini frame	man frame
3	What is the access point (AP) in a wireless LAN?	device that allows wireless devices to connect to a wired network	wireless devices itself	connect to a wired network	all the nodes in the network
4	In wireless ad-hoc network	access point is not required	access point is must	nodes are not required	all nodes are access points
5	Which multiple access technique is used by IEEE 802.11 standard for wireless LAN?	CDMA	CSMA/CA	ALOHA	CSMA/CD

REFERENCES

http://www.engppt.com/2009/12/networking-fourozan-ppt-slides.html

