

CISC7002 Computer Communications and Networks CISC7102

Computer Networks and Internet Fall Semester 2019

November 6, 2019

Problem 1:

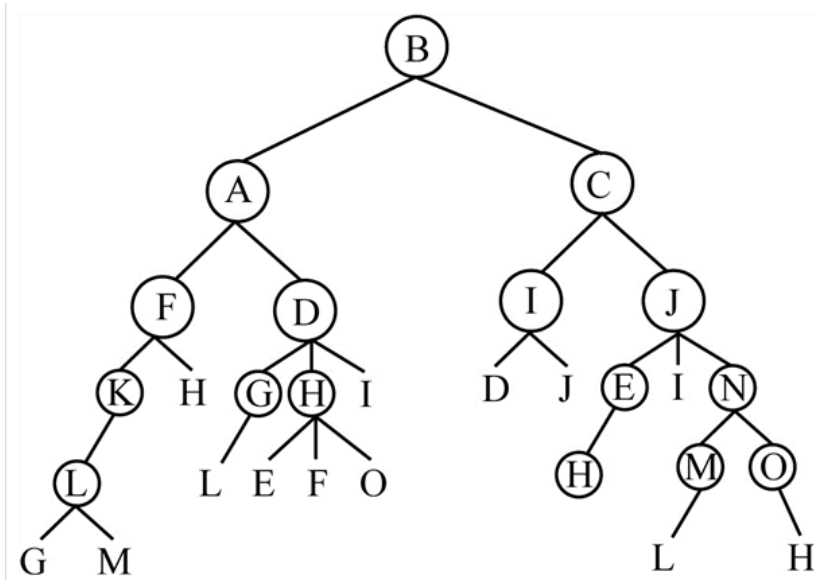
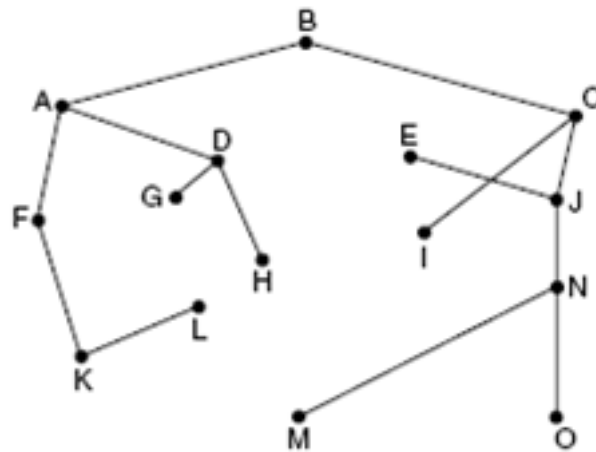
From To	B	D	E	C
A	5	16	7	
B	0	12	6	6
C	8	6	3	
D	12	0	9	3
E	6	9	0	5
F	2	10	4	

New Table for C:

To	Calculate	Route	Cost
A	C- B- A $6+5=11$ C- D- A $3+16=19$ C- E- A $5+7=12$	C- B- A	11
B	C- B 6 C- D- B $3+12=15$ C- E- B $5+6=11$	C- B	6
C	N/A	N/A	0
D	C- B- D $6+12=18$ C- D 3 C- E- D $5+9=14$	C- D	3
E	C- B-E $6+6=12$ C- D-E $3+9=12$ C- E 5	C- E	5
F	C-B-F $6+2=8$ C-D-F $3+10=13$ C-E-F $5+4=9$	C-B-F	8

Problem 2:

The Sink tree is below:



Round 1:

B to A and C
total 2 packets

Round 2:

A to F and D
C to I and J.
total 4 packets

Round 3:

F to K and H
D to G, H and I
I to D and J
J to E I and N
total 10 packets

Round 4:

K to L
H to E, F and O
G to L
E to H
N to M and O
Total 8 packets

Round 5:

L to G and M
M to L
O to H
Total 4 packets

Therefore, $2+4+10+8+4=28$ Packets.