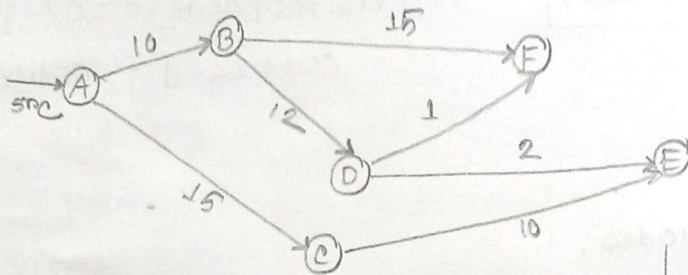


# Practice Problem-14.5

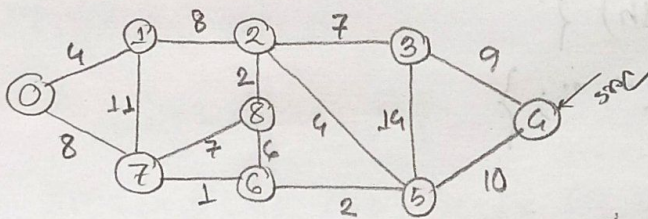
\*



- A  $\rightarrow$  0  
 B  $\rightarrow$  10  
 C  $\rightarrow$  15  
 D  $\rightarrow$  22  
 E  $\rightarrow$  24  
 F  $\rightarrow$  23

	✓ A	✓ B	✓ C	✓ D	✓ E	✓ F
-	$\infty$	$\infty$	$\infty$	$\infty$	$\infty$	$\infty$
A	0	10	15	$\infty$	$\infty$	$\infty$
(10 < 15) B	0	10	15	22	$\infty$	25
15 < 22 < 25 C	0	10	15	22	25	25
22 < 25 D	0	10	15	22	24	23
23 < 24 F	0	10	15	22	24	23
E	0	10	15	22	24	23

\*



Distance from node 4



- 0  $\rightarrow$  21  
 1  $\rightarrow$  24  
 2  $\rightarrow$  14  
 3  $\rightarrow$  ~~9~~  
 4  $\rightarrow$  0  
 5  $\rightarrow$  10  
 6  $\rightarrow$  12  
 7  $\rightarrow$  13  
 8  $\rightarrow$  16

	0	1	2	3	4	5	6	7	8
-	$\infty$	$\infty$	$\infty$	$\infty$	$\infty$	$\infty$	$\infty$	$\infty$	$\infty$
4	$\infty$	$\infty$	$\infty$	9	0	10	$\infty$	$\infty$	$\infty$
3	$\infty$	$\infty$	16	9	0	10	$\infty$	$\infty$	$\infty$
5	$\infty$	$\infty$	14	9	0	10	12	$\infty$	$\infty$
6	$\infty$	$\infty$	14	9	0	10	12	13	18
7	21	24	14	9	0	10	12	13	18
2	21	24	14	9	0	10	12	13	16
8	21	24	14	9	0	10	12	13	16
0	21	24	14	9	0	10	12	13	16
1	21	24	14	9	0	10	12	13	16