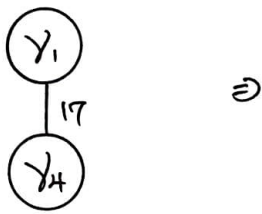


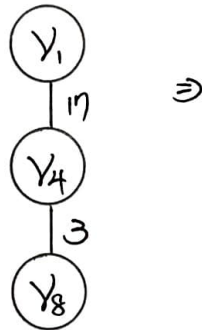
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2.

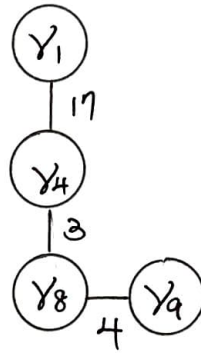
STEP 1.



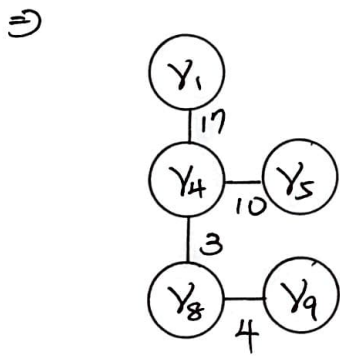
STEP 2.



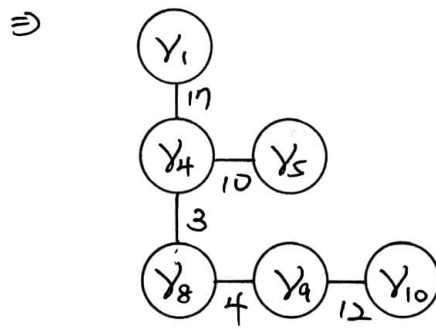
STEP 3.



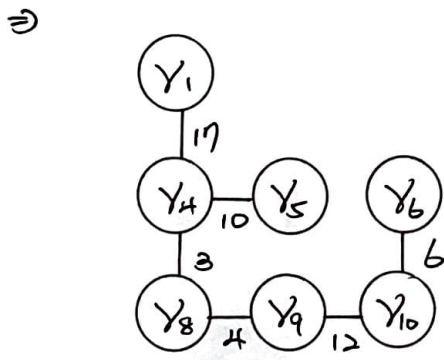
STEP 4.



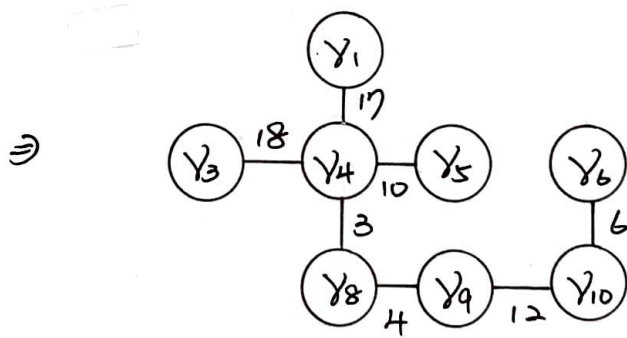
STEP 5.



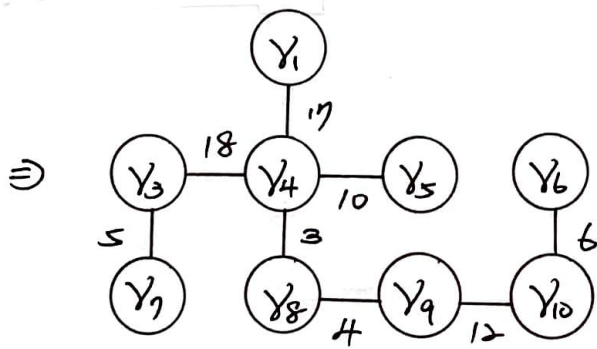
STEP 6.



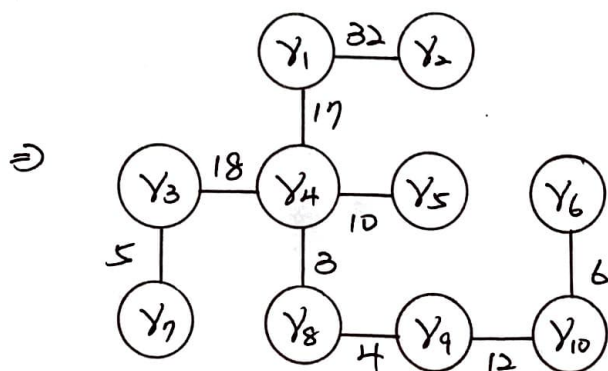
STEP 7.



STEP 8.



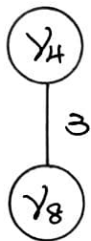
STEP 9.



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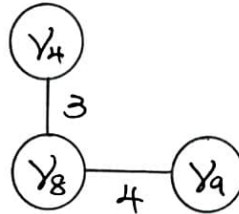
7.

STEP 1.

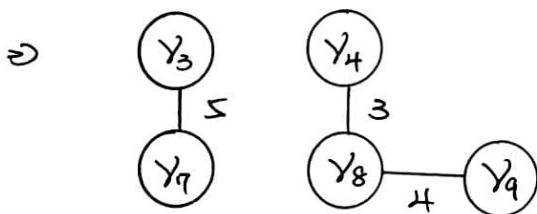


\Rightarrow

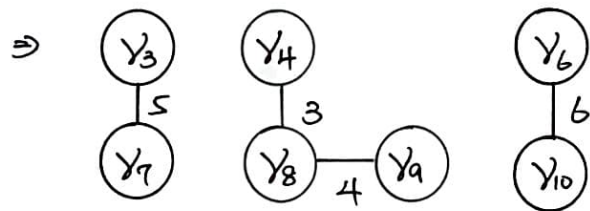
STEP 2.



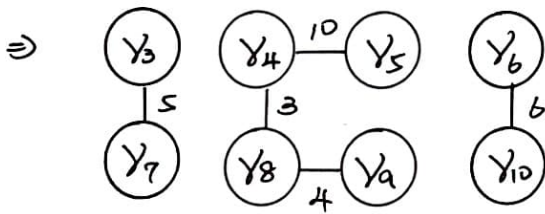
STEP 3.



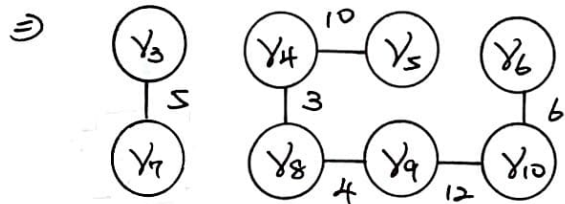
STEP 4.



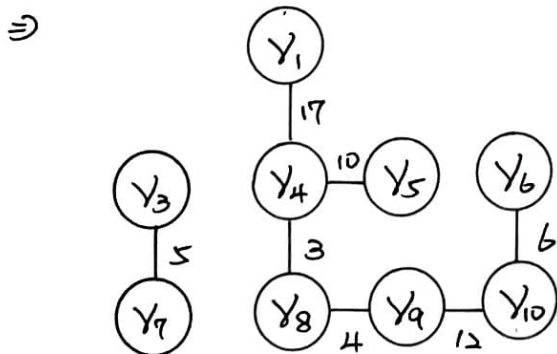
STEP 5.



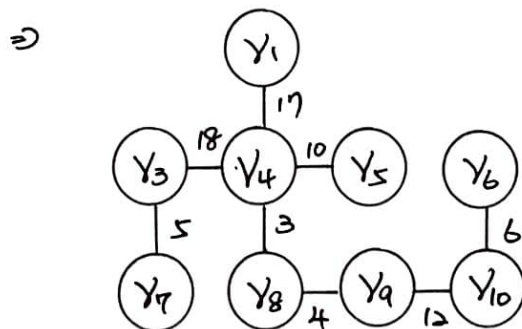
STEP 6.



STEP 7.

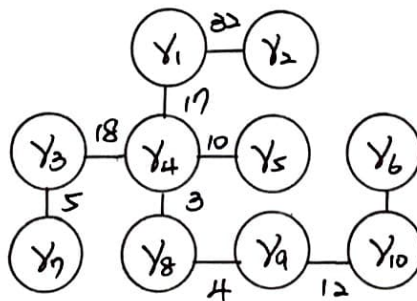


STEP 8.



STEP 9.

\Rightarrow



Algorithm Class Assignment Chapter 4:

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13.

STEP 1. $V_4 \rightarrow V_8$: Weight 3

STEP 2. $V_4 \rightarrow V_8 \rightarrow V_9$: Weight 7

STEP 3. $V_4 \rightarrow V_5$: Weight 10

STEP 4. $V_4 \rightarrow V_1$: Weight 17

STEP 5. $V_4 \rightarrow V_3$: Weight 18

STEP 6. $V_4 \rightarrow V_8 \rightarrow V_9 \rightarrow V_{10}$: Weight 19

STEP 7. $V_4 \rightarrow V_3 \rightarrow V_7$: Weight 23

STEP 8. $V_4 \rightarrow V_8 \rightarrow V_9 \rightarrow V_{10} \rightarrow V_6$: Weight 25

STEP 9. $V_4 \rightarrow V_1 \rightarrow V_2$: Weight 49 *

compute new
minimum for
new visit

Chart

	V_1	V_2	V_3	V_4	V_5	V_6	V_7	V_8	V_9	V_{10}
V_4	17 V_4	∞	18 V_4	/	10 V_4	∞	∞	(3) V_4	∞	∞
V_8	17 V_4	∞	18 V_4	/	10 V_4	∞	62 V_8		(7) V_8	∞
V_9	17 V_4	∞	18 V_4	/	(10) V_4	∞	62 V_8			19 V_9
V_5	(17) V_4	55 V_5	18 V_4	/		38 V_5	62 V_8			19 V_9
V_1		49 V_1	(18) V_4	/		38 V_5	62 V_8			19 V_9
V_3		49 V_1		/		38 V_5	23 V_3			(19) V_9
V_{10}		49 V_1		/		25 V_{10}	(23) V_3			
V_7		49 V_1		/		(25) V_{10}				
V_6		(49) V_1		/						
	/	/	/	/	/	/	/	/	/	/

*

Algorithm Class Assignment Chapter 4 :

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19.

Arrange the job by service time
using increasing order

\Rightarrow Job 2 : Service Time 3

\Rightarrow Job 4 : Service Time 5

\Rightarrow Job 1 : Service Time 7

\Rightarrow Job 3 : Service Time 10

$$\text{Total} = 3 + (3+5) + (3+5+7) + (3+5+7+10)$$

$$= 3 + 8 + 15 + 25$$

$$= 51 \text{ in job order } [2, 4, 1, 3]$$

$$\therefore \text{Minimum Total Time} = 51$$

*

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22.

Sort by profit:

Job	Deadline	Profit
3	3	60
7	1	55
6	1	45
1	2	40
4	2	20
2	4	15
5	3	10

$$\Rightarrow J = 3$$

$$\Rightarrow K = [7, 3], \quad J = K$$

$$\Rightarrow K = [7, 6, 3]$$

$$\Rightarrow K = [7, 1, 3], \quad J = K$$

$$\Rightarrow K = [7, 1, 4, 3]$$

$$\Rightarrow K = [7, 1, 3, 2], \quad J = K$$

$$\Rightarrow K = [7, 1, 3, 5, 2]$$

$$\Rightarrow J = [7, 1, 3, 2] \Rightarrow 55 + 40 + 60 + 15 = 170 \quad *$$