## 程序代写代做 CS编程辅导

#### 17. a. Network Model



The linear programming formulation and solution are shown.

# LINEAR PROGRAMING PROBLEM TUTORS.COM

MIN 4x14 + 7x15 + 8x24 + 5x25 + 5x34 + 6x35 + 6x46 + 4x47 + 8x48 + 4x49 + 3x56 + 6x57 + 7x58 + 7x59

S.T.

- 1)  $X14 + X15 \le 450$ 2)  $X24 + X25 \le 600$
- 3) X34 + X35 < 380
- 4) X46 + X47 + X48 + X49 X14 X24 X34 = 0
- 5) X56 + X57 + X58 + X59 X15 X25 X35 = 0
- 6) X46 + X56 = 300
- 7) X47 + X57 = 300
- $8) \quad X48 + X58 = 300$
- 9) X49 + X59 = 400

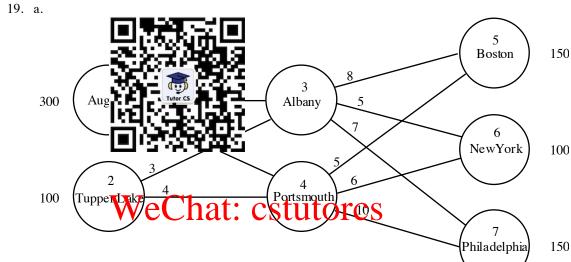
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OPTIMAL SOLUTION

	alue Value	Reduced Cost		
	450.00000	0.00000		
	0.00000	2.00000		
	0.00000	4.00000		
X25	600.00000	0.00000		
<b>*** **** ****</b>	250.00000	0.00000		
we Canat:	CStylto1			
X46	0.00000	2.00000		
X47	300.00000	0.00000	TT 1	
Assignment Project Exam Help				
X49	400.00000	0.00000	1	
X56	300.00000	0.00000		
Email: tut	torese	163900m		
X58	300.00000	0.00000		
X59	0.00000	4.00000		
QQ: 749389476				
Constraint S	lack/Surplus	Dual Value		
http://tut	0.00000	-1.00000		
https://tutoresecom-1.00000				
3	130.00000	0.00000		
4	0.00000	9.00000		
5	0.00000	9.00000		
6	0.00000	13.00000		
7	0.00000	9.00000		
8	0.00000	5.00000		
9	0.00000	6.00000		

There is an excess capacity of 130 units at plant 3.

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# Assignment Project Exam-Help

Min 
$$7x_{13} + 5x_{14} + 3x_{23} + 4x_{24} + 8x_{35} + 5x_{36} + 7x_{37} + 5x_{45} + 6x_{46} + 10x_{47}$$
s.t.

Email: tutorcs@163.com

$$x_{13} + x_{14} \leq 300$$

$$x_{23} + x_{24} \leq 100$$

$$-x_{13} - x_{14} = 0$$

$$x_{24} + x_{24} = 0$$

$$x_{35} + x_{45} + x_{46} + x_{47} = 0$$

$$x_{35} + x_{45} = 150$$

$$x_{47} = 150$$

 $x_{ij} \ge 0$  for all i and j

c.	Optimal Solution:	<u>Variable</u>	Value
	•	<i>x</i> <sub>13</sub>	50
		<i>x</i> 14	250
		<i>x</i> <sub>23</sub>	100
		<i>x</i> 24	0
		x <sub>35</sub>	0
		<i>x</i> 36	0
		<i>x</i> 37	150
		<i>x</i> 45	150
			100
		<sup>x</sup> 46 <sup>x</sup> 47	0

Objective Function: 4300