	x1 x1	x2 x2		
Maximize Subject to	500000.00	100000.00		
(1)	50000.00	20000.00	<=	200000.00
(2)	1.00	0.00	>=	3.00
(3)	0.00	1.00	<=	5.00
Lower Bound	0.00	0.00		
Upper Bound	infinity	infinity		
Unrestr'd (y/n)?	'n	n		

Title: Q1
Final Iteration No.: 5
Objective Value = 2000000

Variable	Value	Obj Coeff	Obj Val Contrib	
x1: x1 x2: x2	4.00 0.00	500000.00 100000.00	2000000.00 0.00	
Constraint	RHS	Slack-/Surplus+		
1 (<) 2 (>) 3 (<)	200000.00 3.00 5.00	0.00 1.00+ 5.00-		

Variable	Current Obj Coeff	Min Obj Coeff	Max Obj Coeff	Reduced Cost
x1: x1	500000.00	250000.00	infinity	0.00
x2: x2	100000.00	-infinity	200000.00	100000.00
Constraint	Current RHS	Min RHS	Max RHS	Dual Price
1 (<)	200000.00	150000.00	infinity	10.00
2 (>)	3.00	-infinity	4.00	0.00
3 (<)	5.00	0.00	infinity	0.00

	Α	B x2		
Minimize	x1 9.00	10.00		
Subject to	0.00	10.00		
(1)	2.00	2.00	>=	50.00
(2)	4.00	3.00	>=	24.00
(3)	3.00	2.00	>=	60.00
Lauran Darrad	0.00	0.00		
Lower Bound	0.00	0.00		
Upper Bound	infinity	infinity		
Unrestr'd (y/n)?	n	n		

Title: Q2 Final Iteration No.: 7 Objective Value = 225

Variable	Value	Obj Coeff	Obj Val Contrib	
x1: A x2: B	25.00 0.00	9.00 10.00	225.00 0.00	
Constraint	RHS	Slack-/Surplus+		
1 (>) 2 (>) 3 (>)	50.00 24.00 60.00	0.00 76.00+ 15.00+		

Variable	Current Obj Coeff	Min Obj Coeff	Max Obj Coeff	Reduced Cost
x1: A	9.00	0.00	10.00	0.00
x2: B	10.00	9.00	infinity	-1.00
Constraint	Current RHS	Min RHS	Max RHS	Dual Price
1 (>)	50.00	40.00	infinity	4.50
2 (>)	24.00	-infinity	100.00	0.00
3 (>)	60.00	-infinity	75.00	0.00

<b>Maximize</b> Subject to	x1 x1 5.00	x2 x2 10.00	x3 x3 8.00		
(1)	3.00	5.00	2.00	<=	60.00
( 2)	4.00	4.00	4.00	<=	72.00
(3)	2.00	4.00	5.00	<=	100.00
Lower Bound	0.00	0.00	0.00		
Upper Bound	infinity	infinity	infinity		
Unrestr'd (y/n)?	ń	'n	'n		

<b>Maximize</b> Subject to	x1 x1 5.00	x2 x2 10.00	x3 x3 8.00		
(1)	3.00	5.00	2.00	<=	60.00
( 2)	4.00	4.00	4.00	<=	72.00
(3)	2.00	4.00	5.00	<=	100.00
Lower Bound	0.00	0.00	0.00		
Upper Bound	infinity	infinity	infinity		
Unrestr'd (y/n)?	ń	'n	'n		

Title: Q3(ii)

	x1	x2	x3		
	x1	x2	x3		
Minimize	2.00	5.00	2.00		
Subject to					
(1)	3.00	0.00	1.00	>=	10.00
(2)	5.00	1.00	2.00	>=	15.00
(3)	1.00	2.00	0.00	>=	8.00
Lower Bound	0.00	0.00	0.00		
Upper Bound	infinity	infinity	infinity		
Unrestr'd (v/n)?	n	n	n		

Title: Q3(ii)
Final Iteration No.: 7
Objective Value = 16

Value	Obj Coeff	Obj Val Contrib	
8.00	2.00	16.00	
0.00	5.00	0.00	
0.00	2.00	0.00	
RHS	Slack-/Surplus+		
10.00	14.00+		
15.00	25.00+		
8.00	0.00		
	8.00 0.00 0.00 RHS 10.00 15.00	8.00 2.00 0.00 5.00 0.00 2.00 RHS Slack-/Surplus+ 10.00 14.00+ 15.00 25.00+	8.00 2.00 16.00 0.00 5.00 0.00 0.00 2.00 0.00 RHS Slack-/Surplus+ 10.00 14.00+ 15.00 25.00+

Variable	Current Obj Coeff	Min Obj Coeff	Max Obj Coeff	Reduced Cost
x1: x1	2.00	0.00	2.50	0.00
x2: x2	5.00	4.00	infinity	-1.00
x3: x3	2.00	0.00	infinity	-2.00
Constraint	Current RHS	Min RHS	Max RHS	Dual Price
1 (>)	10.00	-infinity	24.00	0.00
2 (>)	15.00	-infinity	40.00	0.00
3 (>)	8.00	3.33	infinity	2.00

	x1	x2	х3	x4	x5	
	x1	x2	x3	x4	x5	
Maximize	18.00	28.00	6.00	11.00	12.00	
Subject to						
(1)	4.00	3.00	1.00	3.00	2.00	<=
( 2)	1.00	3.00	1.00	1.00	0.00	<=
( 3)	1.50	0.00	0.00	0.50	0.50	<=
( 4)	1.00	0.00	0.00	0.00	0.00	<=
( 5)	0.00	1.00	0.00	0.00	0.00	<=
( 6)	0.00	0.00	1.00	0.00	0.00	<=
( 7)	0.00	0.00	0.00	1.00	0.00	<=
(8)	0.00	0.00	0.00	0.00	1.00	<=
Lower Bound	0.00	0.00	0.00	0.00	0.00	
Upper Bound	infinity	infinity	infinity	infinity	infinity	
Unrestr'd (y/n)?	'n	'n	'n	ń	'n	

(1)	300.00
(2)	160.00
(3)	150.00
(4)	20.00
(5)	50.00
(6)	45.00
(7)	70.00
(8)	40.00

Title: Q4
Final Iteration No.: 6
Objective Value = 2146.67

Variable	Value	Obj Coeff	Obj Val Contrib	
x1: x1	20.00	18.00	360.00	
x2: x2	46.67	28.00	1306.67	
x3: x3	0.00	6.00	0.00	
x4: x4	0.00	11.00	0.00	
x5: x5	40.00	12.00	480.00	
Constraint	RHS	Slack-/Surplus+		
1 (<)	300.00	0.00		
2 (<)	160.00	0.00		
3 (<)	150.00	100.00-		
4 (<)	20.00	0.00		
5 (<)	50.00	3.33-		
6 (<)	45.00	45.00-		
7 (<)	70.00	70.00-		
8 (<)	40.00	0.00		

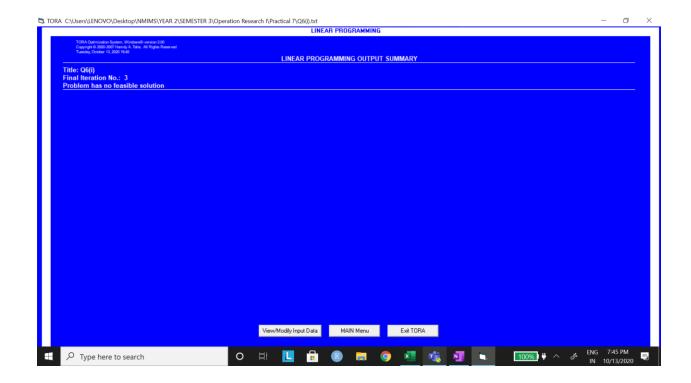
Variable	Current Obj Coeff	Min Obj Coeff	Max Obj Coeff	Reduced Cost
x1: x1	18.00	11.83	27.33	0.00
x2: x2	28.00	18.00	54.00	0.00
x3: x3	6.00	-infinity	9.33	3.33
x4: x4	11.00	-infinity	15.11	4.11
x5: x5	12.00	5.78	infinity	0.00
Constraint	Current RHS	Min RHS	Max RHS	Dual Price
1 (<)	300.00	270.00	300.00	2.89
2 (<)	160.00	160.00	167.50	6.44
3 (<)	150.00	50.00	infinity	0.00
4 (<)	20.00	20.00	infinity	0.00
5 (<)	50.00	46.67	infinity	0.00
6 (<)	45.00	0.00	infinity	0.00
7 (<)	70.00	0.00	infinity	0.00
8 (<)	40.00	40.00	55.00	6.22

	x1	x2	x3	x4	x5	x6
	x1	x2	x3	x4	x5	x6
Maximize	12.00	12.00	15.00	24.00	22.00	23.00
Subject to						
(1)	1.00	1.00	1.00	0.00	0.00	0.00
(2)	0.00	0.00	0.00	1.00	1.00	1.00
( 3)	1.00	0.00	0.00	1.00	0.00	0.00
( 4)	0.00	1.00	0.00	0.00	0.00	1.00
( 5)	0.00	0.00	1.00	0.00	0.00	1.00
Lower Bound	0.00	0.00	0.00	0.00	0.00	0.00
Upper Bound	infinity	infinity	infinity	infinity	infinity	infinity
Unrestr'd (y/n)?	n	n	n	n	n	n
( 1)	<=	400.00				
( 2)	<=	250.00				
( 3)	=	200.00				
(4)	=	100.00				
( 5)	=	250.00				

Title: Q5
Final Iteration No.: 9
Objective Value = 11350

Variable	Value	Obj Coeff	Obj Val Contrib	
x1: x1	50.00	12.00	600.00	
x2: x2	100.00	12.00	1200.00	
x3: x3	250.00	15.00	3750.00	
x4: x4	150.00	24.00	3600.00	
x5: x5	100.00	22.00	2200.00	
x6: x6	0.00	23.00	0.00	
Constraint	RHS	Slack-/Surplus+		
1 (<)	400.00	0.00		
2 (<)	250.00	0.00		
3 (=)	200.00	0.00		
4 (=)	100.00	0.00		
5 (=)	250.00	0.00		

Variable	Current Obj Coeff	Min Obj Coeff	Max Obj Coeff	Reduced Cost
x1: x1	12.00	2.00	15.00	0.00
x2: x2	12.00	6.00	infinity	0.00
x3: x3	15.00	9.00	infinity	0.00
x4: x4	24.00	21.00	34.00	0.00
x5: x5	22.00	12.00	28.00	0.00
x6: x6	23.00	-infinity	29.00	6.00
Constraint	Current RHS	Min RHS	Max RHS	Dual Price
1 (<)	400.00	350.00	550.00	10.00
2 (<)	250.00	150.00	infinity	22.00
3 (=)	200.00	50.00	300.00	2.00
4 (=)	100.00	0.00	150.00	2.00
5 (=)	250.00	100.00	300.00	5.00



Title: Q6(ii)

x1	x2		
x1	x2		
8.00	16.00		
1.00	1.00	<=	200.00
0.00	1.00	<=	125.00
3.00	6.00	<=	900.00
0.00	0.00		
infinity	infinity		
n	n		
	x1 8.00 1.00 0.00 3.00 0.00 infinity	x1 x2 8.00 16.00 1.00 1.00 0.00 1.00 3.00 6.00 0.00 0.00 infinity infinity	x1 x2 8.00 16.00 1.00 1.00 <= 0.00 1.00 <= 3.00 6.00 <= 0.00 0.00 infinity infinity

Title: Q6(ii) Final Iteration No.: 3 Objective Value = 2400

Variable	Value	Obj Coeff	Obj Val Contrib	
x1: x1 x2: x2	50.00 125.00	8.00 16.00	400.00 2000.00	
Constraint	RHS	Slack-/Surplus+		
1 (<) 2 (<) 3 (<)	200.00 125.00 900.00	25.00- 0.00 0.00		

Variable	Current Obj Coeff	Min Obj Coeff	Max Obj Coeff	Reduced Cost
				2.00
x1: x1	8.00	0.00	8.00	0.00
x2: x2	16.00	16.00	infinity	0.00
Constraint	Current RHS	Min RHS	Max RHS	Dual Price
1 (<)	200.00	175.00	infinity	0.00
2 (<)	125.00	100.00	150.00	0.00
3 (<)	900.00	750.00	975.00	2.67



