

PROGRAM & HASIL RUNNING PERMUTASI

PROGRAM MODEL PERMUTASI 1-2-3

```
MIN=1*(5*p1+5*p2+3*p4+5*p5+6*p8+5*p11)+2*(1*p3+2*p6+1*p7+2*p9+1*p10+1*
p12+1*p13+1*p14)+3*(n15+p16);
30*q1+((250+(250*0.1))/q1)-p1<=8600;
35*q2+((200+(200*0.1))/q2)-p2<=8800;
10*q3+((95+(95*0.05))/q3)-p3<=4260;
20*q4+((170+(170*0.1))/q4)-p4<=8600;
15*q5+((105+(105*0.1))/q5)-p5<=5680;
25*q6+((90+(90*0.05))/q6)-p6<=7450;
10*q7+((90+(90*0.05))/q7)-p7<=4500;
25*q8+((225+(225*0.1))/q8)-p8<=8200;
20*q9+((175+(175*0.05))/q9)-p9<=8350;
15*q10+((95+(95*0.05))/q10)-p10<=5050;
20*q11+((165+(165*0.1))/q11)-p11<=8100;
15*q12+((95+(95*0.05))/q12)-p12<=5250;
15*q13+((100+(100*0.05))/q13)-p13<=6280;
10*q14+((90+(90*0.05))/q14)-p14<=4400;
45*q1+40*q2+18*q3+22*q4+24*q5+27*q6+14*q7+24*q8+21*q9+18*q10+23*q11+12
*q12+18*q13+14*q14-p16<=120000;
q1>=0; p1>=0;
q2>=0; p2>=0;
q3>=0; p3>=0;
q4>=0; p4>=0;
q5>=0; p5>=0;
q6>=0; p6>=0;
q7>=0; p7>=0;
q8>=0; p8>=0;
q9>=0; p9>=0;
q10>=0; p10>=0;
q11>=0; p11>=0;
q12>=0; p12>=0;
q13>=0; p13>=0;
q14>=0; p14>=0;
p16>=0;
n15>=0;
end
```

PROGRAM MODEL PERMUTASI 1-3-2

```
MIN=1*(5*p1+5*p2+3*p4+5*p5+6*p8+5*p11)+3*(1*p3+2*p6+1*p7+2*p9+1*p10+1*
p12+1*p13+1*p14)+2*(n15+p16);
30*q1+((250+(250*0.1))/q1)-p1<=8600;
35*q2+((200+(200*0.1))/q2)-p2<=8800;
10*q3+((95)/q3)-p3<=4260;
20*q4+((170+(170*0.1))/q4)-p4<=8600;
15*q5+((105+(105*0.1))/q5)-p5<=5680;
25*q6+((90)/q6)-p6<=7450;
10*q7+((90)/q7)-p7<=4500;
25*q8+((225+(225*0.1))/q8)-p8<=8200;
20*q9+((175)/q9)-p9<=8350;
15*q10+((95)/q10)-p10<=5050;
20*q11+((165+(165*0.1))/q11)-p11<=8100;
15*q12+((95)/q12)-p12<=5250;
15*q13+((100)/q13)-p13<=6280;
10*q14+((90)/q14)-p14<=4400;
45*q1+40*q2+18*q3+22*q4+24*q5+27*q6+14*q7+24*q8+21*q9+18*q10+23*q11+12
*q12+18*q13+14*q14-p16<=120000;
q1>=0; p1>=0;
q2>=0; p2>=0;
q3>=0; p3>=0;
q4>=0; p4>=0;
q5>=0; p5>=0;
q6>=0; p6>=0;
q7>=0; p7>=0;
q8>=0; p8>=0;
q9>=0; p9>=0;
q10>=0; p10>=0;
q11>=0; p11>=0;
q12>=0; p12>=0;
q13>=0; p13>=0;
q14>=0; p14>=0;
p16>=0;
n15>=0;
end
```

PROGRAM MODEL PERMUTASI 2-3-1

```
MIN=2*(5*p1+5*p2+3*p4+5*p5+6*p8+5*p11)+3*(1*p3+2*p6+1*p7+2*p9+1*p10+1*
p12+1*p13+1*p14)+1*(n15+p16);
30*q1+((250+(250*0.05))/q1)-p1<=8600;
35*q2+((200+(200*0.05))/q2)-p2<=8800;
10*q3+((95)/q3)-p3<=4260;
20*q4+((170+(170*0.05))/q4)-p4<=8600;
15*q5+((105+(105*0.05))/q5)-p5<=5680;
25*q6+((90)/q6)-p6<=7450;
10*q7+((90)/q7)-p7<=4500;
25*q8+((225+(225*0.05))/q8)-p8<=8200;
20*q9+((175)/q9)-p9<=8350;
15*q10+((95)/q10)-p10<=5050;
20*q11+((165+(165*0.05))/q11)-p11<=8100;
15*q12+((95)/q12)-p12<=5250;
15*q13+((100)/q13)-p13<=6280;
10*q14+((90)/q14)-p14<=4400;
45*q1+40*q2+18*q3+22*q4+24*q5+27*q6+14*q7+24*q8+21*q9+18*q10+23*q11+12
*q12+18*q13+14*q14-p16<=170000;
q1>=0; p1>=0;
q2>=0; p2>=0;
q3>=0; p3>=0;
q4>=0; p4>=0;
q5>=0; p5>=0;
q6>=0; p6>=0;
q7>=0; p7>=0;
q8>=0; p8>=0;
q9>=0; p9>=0;
q10>=0; p10>=0;
q11>=0; p11>=0;
q12>=0; p12>=0;
q13>=0; p13>=0;
q14>=0; p14>=0;
p16>=0;
n15>=0;
end
```

PROGRAM MODEL PERMUTASI 2-1-3

```
MIN=2*(5*p1+5*p2+3*p4+5*p5+6*p8+5*p11)+1*(1*p3+2*p6+1*p7+2*p9+1*p10+1*
p12+1*p13+1*p14)+3*(n15+p16);
30*q1+((250+(250*0.05))/q1)-p1<=8600;
35*q2+((200+(200*0.05))/q2)-p2<=8800;
10*q3+((95+(95*0.1))/q3)-p3<=4260;
20*q4+((170+(170*0.05))/q4)-p4<=8600;
15*q5+((105+(105*0.05))/q5)-p5<=5680;
25*q6+((90+(90*0.1))/q6)-p6<=7450;
10*q7+((90+(90*0.1))/q7)-p7<=4500;
25*q8+((225+(225*0.05))/q8)-p8<=8200;
20*q9+((175+(175*0.1))/q9)-p9<=8350;
15*q10+((95+(95*0.1))/q10)-p10<=5050;
20*q11+((165+(165*0.05))/q11)-p11<=8100;
15*q12+((95+(95*0.1))/q12)-p12<=5250;
15*q13+((100+(100*0.1))/q13)-p13<=6280;
10*q14+((90+(90*0.1))/q14)-p14<=4400;
45*q1+40*q2+18*q3+22*q4+24*q5+27*q6+14*q7+24*q8+21*q9+18*q10+23*q11+12
*q12+18*q13+14*q14-p16<=120000;
q1>=0;
q2>=0;
q3>=0;
q4>=0;
q5>=0;
q6>=0;
q7>=0;
q8>=0;
q9>=0;
q10>=0;
q11>=0;
q12>=0;
q13>=0;
q14>=0;
p1>=0;
p2>=0;
p3>=0;
p4>=0;
p5>=0;
p6>=0;
p7>=0;
p8>=0;
p9>=0;
p10>=0;
p11>=0;
p12>=0;
p13>=0;
p14>=0;
p16>=0;
n15>=0;
end
```

PROGRAM MODEL PERMUTASI 3-1-2

```
MIN=3*(5*p1+5*p2+3*p4+5*p5+6*p8+5*p11)+1*(1*p3+2*p6+1*p7+2*p9+1*p10+1*
p12+1*p13+1*p14)+2*(n15+p16);
30*q1+((250)/q1)-p1<=8600;
35*q2+((200)/q2)-p2<=8800;
10*q3+((95+(95*0.1))/q3)-p3<=4260;
20*q4+((170)/q4)-p4<=8600;
15*q5+((105)/q5)-p5<=5680;
25*q6+((90+(90*0.1))/q6)-p6<=7450;
10*q7+((90+(90*0.1))/q7)-p7<=4500;
25*q8+((225)/q8)-p8<=8200;
20*q9+((175+(175*0.1))/q9)-p9<=8350;
15*q10+((95+(95*0.1))/q10)-p10<=5050;
20*q11+((165)/q11)-p11<=8100;
15*q12+((95+(95*0.1))/q12)-p12<=5250;
15*q13+((100+(100*0.1))/q13)-p13<=6280;
10*q14+((90+(90*0.1))/q14)-p14<=4400;
45*q1+40*q2+18*q3+22*q4+24*q5+27*q6+14*q7+24*q8+21*q9+18*q10+23*q11+12
*q12+18*q13+14*q14-p16<=170000;
q1>=0; p1>=0;
q2>=0; p2>=0;
q3>=0; p3>=0;
q4>=0; p4>=0;
q5>=0; p5>=0;
q6>=0; p6>=0;
q7>=0; p7>=0;
q8>=0; p8>=0;
q9>=0; p9>=0;
q10>=0; p10>=0;
q11>=0; p11>=0;
q12>=0; p12>=0;
q13>=0; p13>=0;
q14>=0; p14>=0;
p16>=0;
n15>=0;
end
```

PROGRAM MODEL PERMUTASI 3-2-1

```
MIN=3*(5*p1+5*p2+3*p4+5*p5+6*p8+5*p11)+2*(1*p3+2*p6+1*p7+2*p9+1*p10+1*
p12+1*p13+1*p14)+1*(n15+p16);
30*q1+((250)/q1)-p1<=8600;
35*q2+((200)/q2)-p2<=8800;
10*q3+((95+(95*0.05))/q3)-p3<=4260;
20*q4+((170)/q4)-p4<=8600;
15*q5+((105)/q5)-p5<=5680;
25*q6+((90+(90*0.05))/q6)-p6<=7450;
10*q7+((90+(90*0.05))/q7)-p7<=4500;
25*q8+((225)/q8)-p8<=8200;
20*q9+((175+(175*0.05))/q9)-p9<=8350;
15*q10+((95+(95*0.05))/q10)-p10<=5050;
20*q11+((165)/q11)-p11<=8100;
15*q12+((95+(95*0.05))/q12)-p12<=5250;
15*q13+((100+(100*0.05))/q13)-p13<=6280;
10*q14+((90+(90*0.05))/q14)-p14<=4400;
45*q1+40*q2+18*q3+22*q4+24*q5+27*q6+14*q7+24*q8+21*q9+18*q10+23*q11+12
*q12+18*q13+14*q14-p16<=170000;
q1>=0; p1>=0;
q2>=0; p2>=0;
q3>=0; p3>=0;
q4>=0; p4>=0;
q5>=0; p5>=0;
q6>=0; p6>=0;
q7>=0; p7>=0;
q8>=0; p8>=0;
q9>=0; p9>=0;
q10>=0; p10>=0;
q11>=0; p11>=0;
q12>=0; p12>=0;
q13>=0; p13>=0;
q14>=0; p14>=0;
p16>=0;
n15>=0;
end
```

PERMUTASI 1-2-3

Global optimal solution found.
 Objective value: 101.1375
 Extended solver steps: 1
 Total solver iterations: 100

Variable	Value	Reduced Cost
P1	0.000000	0.000000
P2	0.000000	0.000000
P4	0.000000	0.000000
P5	0.000000	0.000000
P8	0.000000	0.000000
P11	0.000000	0.000000
P3	0.000000	0.000000
P6	0.000000	0.000000
P7	0.000000	0.000000
P9	0.000000	0.000000
P10	0.000000	0.000000
P12	0.000000	0.000000
P13	0.000000	0.000000
P14	0.000000	0.000000
N15	33.71248	0.000000
P16	0.000000	0.000000
Q1	286.6347	0.000000
Q2	251.4036	0.000000
Q3	425.9766	0.000000
Q4	429.9783	0.000000
Q5	378.6463	0.000000
Q6	297.9873	0.000000
Q7	449.9790	0.000000
Q8	327.9698	0.000000
Q9	417.4780	0.000000
Q10	336.6469	0.000000
Q11	404.9776	0.000000
Q12	349.9810	0.000000
Q13	418.6499	0.000000
Q14	439.9785	0.000000

Row	Slack or Surplus	Dual Price
1	101.1375	-1.000000
2	0.000000	0.1000112
3	0.000000	0.8572281E-01
4	0.000000	0.3000165
5	0.000000	0.1500076
6	0.000000	0.2000107
7	0.000000	0.1200051
8	0.000000	0.3000140
9	0.000000	0.1200110
10	0.000000	0.1500079
11	0.000000	0.2000117
12	0.000000	0.1500083
13	0.000000	0.2000109
14	0.000000	0.2000080
15	0.000000	0.3000146
16	0.000000	-3.000000
17	6577.708	0.000000
18	286.6347	0.000000
19	251.4036	0.000000
20	425.9766	0.000000
21	429.9783	0.000000
22	378.6463	0.000000
23	297.9873	0.000000
24	449.9790	0.000000
25	327.9698	0.000000
26	417.4780	0.000000
27	336.6469	0.000000
28	404.9776	0.000000
29	349.9810	0.000000
30	418.6499	0.000000
31	439.9785	0.000000
32	0.000000	-4.899989
33	0.000000	-4.914277
34	0.000000	-1.699984
35	0.000000	-2.849992
36	0.000000	-4.799989
37	0.000000	-3.879995
38	0.000000	-1.699986
39	0.000000	-5.879989
40	0.000000	-3.849992
41	0.000000	-1.799988
42	0.000000	-4.849992
43	0.000000	-1.799989
44	0.000000	-1.799992
45	0.000000	-1.699985
46	0.000000	-3.000000
47	33.71248	0.000000

PERMUTASI 1-3-2

Global optimal solution found.
 Objective value: 67.41010
 Extended solver steps: 1
 Total solver iterations: 100

Variable	Value	Reduced Cost
P1	0.000000	0.000000
P2	0.000000	0.000000
P4	0.000000	0.000000
P5	0.000000	0.000000
P8	0.000000	0.000000
P11	0.000000	0.000000
P3	0.000000	0.000000
P6	0.000000	0.000000
P7	0.000000	0.000000
P9	0.000000	0.000000
P10	0.000000	0.000000
P12	0.000000	0.000000
P13	0.000000	0.000000
P14	0.000000	0.000000
N15	33.70505	0.000000
P16	0.000000	0.000000
Q1	286.6347	0.000000
Q2	251.4036	0.000000
Q3	425.9777	0.000000
Q4	429.9783	0.000000
Q5	378.6463	0.000000
Q6	297.9879	0.000000
Q7	449.9800	0.000000
Q8	327.9698	0.000000
Q9	417.4790	0.000000
Q10	336.6479	0.000000
Q11	404.9776	0.000000
Q12	349.9819	0.000000
Q13	418.6507	0.000000
Q14	439.9795	0.000000

Row	Slack or Surplus	Dual Price
1	67.41010	-1.000000
2	0.000000	0.6667411E-01
3	0.000000	0.5714854E-01
4	0.000000	0.2000105
5	0.000000	0.1000051
6	0.000000	0.1333405
7	0.000000	0.8000324E-01
8	0.000000	0.2000089
9	0.000000	0.8000736E-01
10	0.000000	0.1000050
11	0.000000	0.1333408
12	0.000000	0.1000055
13	0.000000	0.1333402
14	0.000000	0.1333384
15	0.000000	0.2000093
16	0.000000	-2.000000
17	6577.579	0.000000
18	286.6347	0.000000
19	251.4036	0.000000
20	425.9777	0.000000
21	429.9783	0.000000
22	378.6463	0.000000
23	297.9879	0.000000
24	449.9800	0.000000
25	327.9698	0.000000
26	417.4790	0.000000
27	336.6479	0.000000
28	404.9776	0.000000
29	349.9819	0.000000
30	418.6507	0.000000
31	439.9795	0.000000
32	0.000000	-4.933326
33	0.000000	-4.942851
34	0.000000	-2.799990
35	0.000000	-2.899995
36	0.000000	-4.866660
37	0.000000	-5.919997
38	0.000000	-2.799991
39	0.000000	-5.919993
40	0.000000	-5.899995
41	0.000000	-2.866659
42	0.000000	-4.899994
43	0.000000	-2.866660
44	0.000000	-2.866662
45	0.000000	-2.799991
46	0.000000	-2.000000
47	33.70505	0.000000

PERMUTASI 2-3-1

Global optimal solution found.
 Objective value: 33.69816
 Extended solver steps: 1
 Total solver iterations: 100

Variable	Value	Reduced Cost
P1	0.000000	0.000000
P2	0.000000	0.000000
P4	0.000000	0.000000
P5	0.000000	0.000000
P8	0.000000	0.000000
P11	0.000000	0.000000
P3	0.000000	0.000000
P6	0.000000	0.000000
P7	0.000000	0.000000
P9	0.000000	0.000000
P10	0.000000	0.000000
P12	0.000000	0.000000
P13	0.000000	0.000000
P14	0.000000	0.000000
N15	33.69816	0.000000
P16	0.000000	0.000000
Q1	286.6361	0.000000
Q2	251.4047	0.000000
Q3	425.9777	0.000000
Q4	429.9792	0.000000
Q5	378.6473	0.000000
Q6	297.9879	0.000000
Q7	449.9800	0.000000
Q8	327.9712	0.000000
Q9	417.4790	0.000000
Q10	336.6479	0.000000
Q11	404.9786	0.000000
Q12	349.9819	0.000000
Q13	418.6507	0.000000
Q14	439.9795	0.000000

Row	Slack or Surplus	Dual Price
1	33.69816	-1.000000
2	0.000000	0.3333688E-01
3	0.000000	0.2857414E-01
4	0.000000	0.1000052
5	0.000000	0.5000241E-01
6	0.000000	0.6667008E-01
7	0.000000	0.4000162E-01
8	0.000000	0.1000044
9	0.000000	0.4000351E-01
10	0.000000	0.5000251E-01
11	0.000000	0.6667039E-01
12	0.000000	0.5000264E-01
13	0.000000	0.6667011E-01
14	0.000000	0.6666920E-01
15	0.000000	0.1000046
16	0.000000	-1.000000
17	6577.368	0.000000
18	286.6361	0.000000
19	251.4047	0.000000
20	425.9777	0.000000
21	429.9792	0.000000
22	378.6473	0.000000
23	297.9879	0.000000
24	449.9800	0.000000
25	327.9712	0.000000
26	417.4790	0.000000
27	336.6479	0.000000
28	404.9786	0.000000
29	349.9819	0.000000
30	418.6507	0.000000
31	439.9795	0.000000
32	0.000000	-9.966663
33	0.000000	-9.971426
34	0.000000	-2.899995
35	0.000000	-5.949998
36	0.000000	-9.933330
37	0.000000	-5.959998
38	0.000000	-2.899996
39	0.000000	-11.96000
40	0.000000	-5.949997
41	0.000000	-2.933330
42	0.000000	-9.949997
43	0.000000	-2.933330
44	0.000000	-2.933331
45	0.000000	-2.899995
46	0.000000	-1.000000
47	33.69816	0.000000

PERMUTASI 2-1-3

Global optimal solution found.
 Objective value: 101.1391
 Extended solver steps: 1
 Total solver iterations: 100

Variable	Value	Reduced Cost
P1	0.000000	0.000000
P2	0.000000	0.000000
P4	0.000000	0.000000
P5	0.000000	0.000000
P8	0.000000	0.000000
P11	0.000000	0.000000
P3	0.000000	0.000000
P6	0.000000	0.000000
P7	0.000000	0.000000
P9	0.000000	0.000000
P10	0.000000	0.000000
P12	0.000000	0.000000
P13	0.000000	0.000000
P14	0.000000	0.000000
N15	33.71302	0.000000
P16	0.000000	0.000000
Q1	286.6361	0.000000
Q2	251.4047	0.000000
Q3	425.9755	0.000000
Q4	429.9792	0.000000
Q5	378.6473	0.000000
Q6	297.9867	0.000000
Q7	449.9780	0.000000
Q8	327.9712	0.000000
Q9	417.4769	0.000000
Q10	336.6460	0.000000
Q11	404.9786	0.000000
Q12	349.9801	0.000000
Q13	418.6492	0.000000
Q14	439.9775	0.000000

Row	Slack or Surplus	Dual Price
1	101.1391	-1.000000
2	0.000000	0.1000107
3	0.000000	0.8572242E-01
4	0.000000	0.3000173
5	0.000000	0.1500072
6	0.000000	0.2000103
7	0.000000	0.1200054
8	0.000000	0.3000147
9	0.000000	0.1200105
10	0.000000	0.1500083
11	0.000000	0.2000123
12	0.000000	0.1500079
13	0.000000	0.2000114
14	0.000000	0.2000084
15	0.000000	0.3000153
16	0.000000	-3.000000
17	6577.626	0.000000
18	286.6361	0.000000
19	251.4047	0.000000
20	425.9755	0.000000
21	429.9792	0.000000
22	378.6473	0.000000
23	297.9867	0.000000
24	449.9780	0.000000
25	327.9712	0.000000
26	417.4769	0.000000
27	336.6460	0.000000
28	404.9786	0.000000
29	349.9801	0.000000
30	418.6492	0.000000
31	439.9775	0.000000
32	0.000000	-9.899989
33	0.000000	-9.914278
34	0.000000	-0.6999827
35	0.000000	-5.849993
36	0.000000	-9.799990
37	0.000000	-1.879995
38	0.000000	-0.6999853
39	0.000000	-11.87999
40	0.000000	-1.849992
41	0.000000	-0.7999877
42	0.000000	-9.849992
43	0.000000	-0.7999886
44	0.000000	-0.7999916
45	0.000000	-0.6999847
46	0.000000	-3.000000
47	33.71302	0.000000

PERMUTASI 3-1-2

Global optimal solution found.
 Objective value: 67.41225
 Extended solver steps: 1
 Total solver iterations: 100

Variable	Value	Reduced Cost
P1	0.000000	0.000000
P2	0.000000	0.000000
P4	0.000000	0.000000
P5	0.000000	0.000000
P8	0.000000	0.000000
P11	0.000000	0.000000
P3	0.000000	0.000000
P6	0.000000	0.000000
P7	0.000000	0.000000
P9	0.000000	0.000000
P10	0.000000	0.000000
P12	0.000000	0.000000
P13	0.000000	0.000000
P14	0.000000	0.000000
N15	33.70613	0.000000
P16	0.000000	0.000000
Q1	286.6376	0.000000
Q2	251.4058	0.000000
Q3	425.9755	0.000000
Q4	429.9802	0.000000
Q5	378.6482	0.000000
Q6	297.9867	0.000000
Q7	449.9780	0.000000
Q8	327.9726	0.000000
Q9	417.4769	0.000000
Q10	336.6460	0.000000
Q11	404.9796	0.000000
Q12	349.9801	0.000000
Q13	418.6492	0.000000
Q14	439.9775	0.000000

Row	Slack or Surplus	Dual Price
1	67.41225	-1.000000
2	0.000000	0.6667343E-01
3	0.000000	0.5714802E-01
4	0.000000	0.2000115
5	0.000000	0.1000046
6	0.000000	0.1333398
7	0.000000	0.8000357E-01
8	0.000000	0.2000098
9	0.000000	0.8000669E-01
10	0.000000	0.1000055
11	0.000000	0.1333415
12	0.000000	0.1000050
13	0.000000	0.1333409
14	0.000000	0.1333389
15	0.000000	0.2000102
16	0.000000	-2.000000
17	6577.415	0.000000
18	286.6376	0.000000
19	251.4058	0.000000
20	425.9755	0.000000
21	429.9802	0.000000
22	378.6482	0.000000
23	297.9867	0.000000
24	449.9780	0.000000
25	327.9726	0.000000
26	417.4769	0.000000
27	336.6460	0.000000
28	404.9796	0.000000
29	349.9801	0.000000
30	418.6492	0.000000
31	439.9775	0.000000
32	0.000000	-14.93333
33	0.000000	-14.94285
34	0.000000	-0.7999885
35	0.000000	-8.899995
36	0.000000	-14.86666
37	0.000000	-1.919996
38	0.000000	-0.7999902
39	0.000000	-17.91999
40	0.000000	-1.899994
41	0.000000	-0.8666585
42	0.000000	-14.89999
43	0.000000	-0.8666591
44	0.000000	-0.8666611
45	0.000000	-0.7999898
46	0.000000	-2.000000
47	33.70613	0.000000

PERMUTASI 3-2-1

Global optimal solution found.
 Objective value: 33.69870
 Extended solver steps: 1
 Total solver iterations: 100

Variable	Value	Reduced Cost
P1	0.000000	0.000000
P2	0.000000	0.000000
P4	0.000000	0.000000
P5	0.000000	0.000000
P8	0.000000	0.000000
P11	0.000000	0.000000
P3	0.000000	0.000000
P6	0.000000	0.000000
P7	0.000000	0.000000
P9	0.000000	0.000000
P10	0.000000	0.000000
P12	0.000000	0.000000
P13	0.000000	0.000000
P14	0.000000	0.000000
N15	33.69870	0.000000
P16	0.000000	0.000000
Q1	286.6376	0.000000
Q2	251.4058	0.000000
Q3	425.9766	0.000000
Q4	429.9802	0.000000
Q5	378.6482	0.000000
Q6	297.9873	0.000000
Q7	449.9790	0.000000
Q8	327.9726	0.000000
Q9	417.4780	0.000000
Q10	336.6469	0.000000
Q11	404.9796	0.000000
Q12	349.9810	0.000000
Q13	418.6499	0.000000
Q14	439.9785	0.000000

Row	Slack or Surplus	Dual Price
1	33.69870	-1.000000
2	0.000000	0.3333671E-01
3	0.000000	0.2857401E-01
4	0.000000	0.1000055
5	0.000000	0.5000230E-01
6	0.000000	0.6666992E-01
7	0.000000	0.4000170E-01
8	0.000000	0.1000047
9	0.000000	0.4000335E-01
10	0.000000	0.5000264E-01
11	0.000000	0.6667058E-01
12	0.000000	0.5000252E-01
13	0.000000	0.6667029E-01
14	0.000000	0.6666933E-01
15	0.000000	0.1000049
16	0.000000	-1.000000
17	6577.286	0.000000
18	286.6376	0.000000
19	251.4058	0.000000
20	425.9766	0.000000
21	429.9802	0.000000
22	378.6482	0.000000
23	297.9873	0.000000
24	449.9790	0.000000
25	327.9726	0.000000
26	417.4780	0.000000
27	336.6469	0.000000
28	404.9796	0.000000
29	349.9810	0.000000
30	418.6499	0.000000
31	439.9785	0.000000
32	0.000000	-14.96666
33	0.000000	-14.97143
34	0.000000	-1.899995
35	0.000000	-8.949998
36	0.000000	-14.93333
37	0.000000	-3.959998
38	0.000000	-1.899995
39	0.000000	-17.96000
40	0.000000	-3.949997
41	0.000000	-1.933329
42	0.000000	-14.95000
43	0.000000	-1.933330
44	0.000000	-1.933331
45	0.000000	-1.899995
46	0.000000	-1.000000
47	33.69870	0.000000