

## LAMPIRAN

### Lampiran 1. Foto Produk Pupuk Dolomite PT WMB



Pupuk Dolomite Jenis PK-Granule PT WMB



Kemasan Pupuk Dolomite Mesh 90 s/d 200 PT WMB

## Lampiran 2. Surat Balasan Izin Penelitian



### PT WAHANA MAKMUR BERSAMA Fertilizer, Agrochemical & Mineral Industri

Kantor: Komplek Mangga Dua Block A-6 No 8  
Jl Jagir Wonokromo No. 100  
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Pabrik: Jl. Dukun-Sidayu KM 1 Ds. Kertosono, Sidayu-Gresik

Gresik, 10 Februari 2023

No. Surat : 7/WMB/II/2023  
Hal : Balasan Permohonan Izin Penelitian  
Lampiran : -

Kepada Yth:  
Dekan Fakultas Teknik Industri  
Universitas 17 Agustus 1945 (UNTAG) Surabaya  
Di-tempat.

Dengan Hormat,  
Menanggapi surat No. 360/K/FT/Akd/II/2023 perihal "Permohonan Izin Penelitian" yang telah kami terima, maka kami informasikan bahwa perusahaan menerima mahasiswa yang bernama di bawah ini:

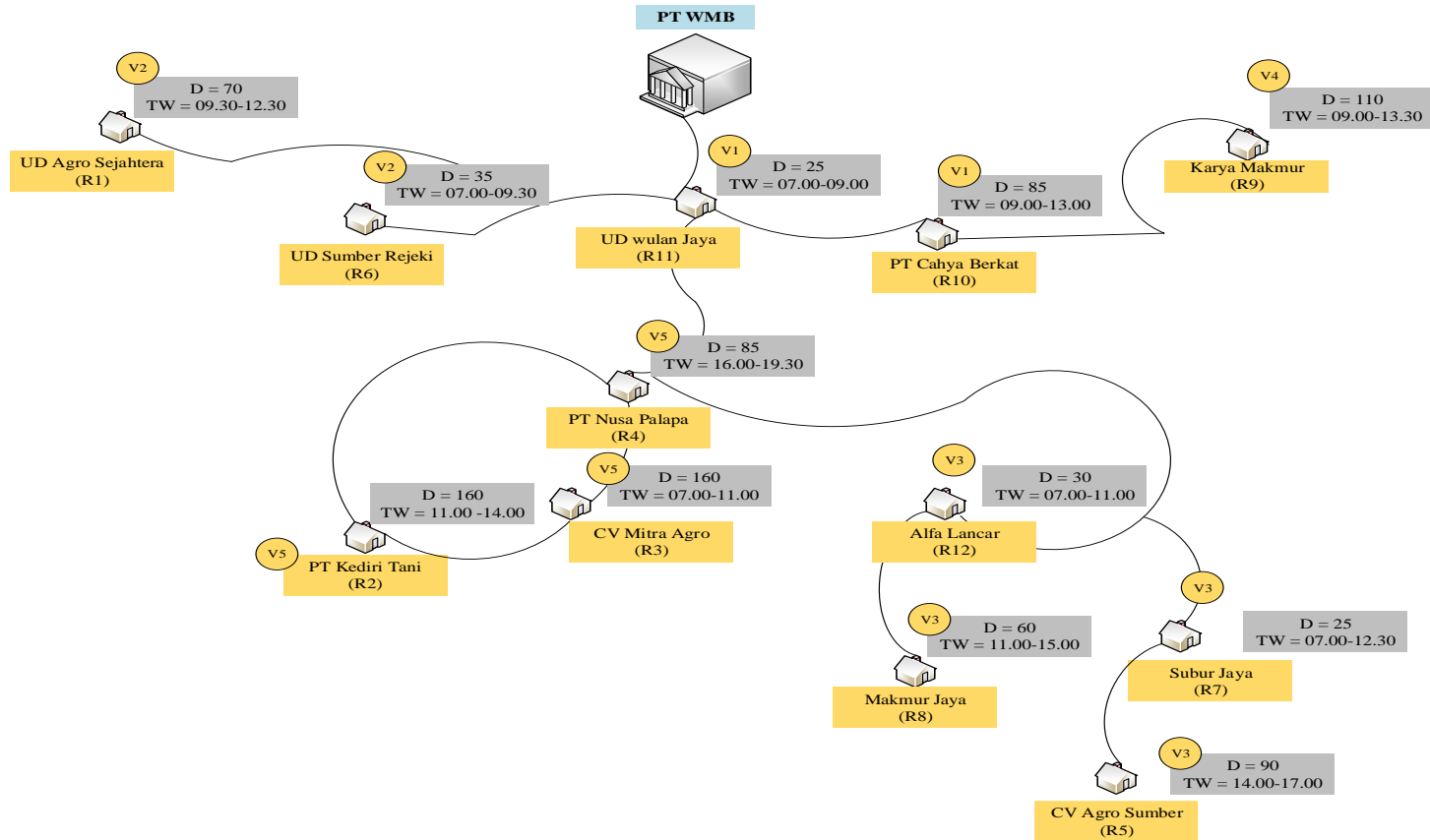
No	Nama	NBI	Email	No. HP
I.	Fifa Marisa Irwayu	1411900166	fifamarisa90@gmail.com	085733846621

Dengan ini diberitahukan bahwa kami tidak keberatan menerima mahasiswa tersebut melaksanakan penelitian tugas akhir sesuai dengan surat permohonan dengan syarat mengikuti peraturan dan ketentuan yang berlaku di PT Wahana Makmur Bersama.

Demikian pemberitahuan kami, atas perhatian dan kerjasamanya kami ucapkan terima kasih.

Hormat Kami,  
PT Wahana Makmur Bersama  
  
**Dr. Khoirul Anam Kasim**  
Direktur

### Lampiran 3. Lokasi Antar Pelanggan



#### Lampiran 4. Matriks Biaya Pengiriman Antar Node

Matriks Biaya Transportasi Antar Pelanggan (Rupiah)

	Pabrik	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12
Pabrik	Rp0	Rp126.295	Rp281.735	Rp205.958	Rp124.352	Rp297.279	Rp62.176	Rp312.823	Rp293.393	Rp248.704	Rp106.865	Rp69.948	Rp281.735
R1	Rp126.295	Rp0	Rp242.875	Rp161.269	Rp213.730	Rp386.657	Rp143.782	Rp406.087	Rp373.056	Rp341.968	Rp200.129	Rp149.611	Rp374.999
R2	Rp281.735	Rp242.875	Rp0	Rp87.435	Rp217.616	Rp205.958	Rp184.585	Rp200.129	Rp186.528	Rp398.315	Rp227.331	Rp227.331	Rp380.828
R3	Rp205.958	Rp161.269	Rp87.435	Rp0	Rp141.839	Rp314.766	Rp87.435	Rp336.139	Rp303.108	Rp314.766	Rp151.554	Rp151.554	Rp303.108
R4	Rp124.352	Rp213.730	Rp217.616	Rp141.839	Rp0	Rp198.186	Rp104.922	Rp217.616	Rp184.585	Rp176.813	Rp8.549	Rp66.062	Rp186.528
R5	Rp297.279	Rp386.657	Rp205.958	Rp314.766	Rp198.186	Rp0	Rp270.077	Rp19.430	Rp17.487	Rp373.056	Rp200.129	Rp238.989	Rp10.881
R6	Rp62.176	Rp143.782	Rp184.585	Rp87.435	Rp104.922	Rp270.077	Rp0	Rp291.450	Rp258.419	Rp273.963	Rp106.865	Rp106.865	Rp260.362
R7	Rp312.823	Rp406.087	Rp200.129	Rp336.139	Rp217.616	Rp19.430	Rp291.450	Rp0	Rp34.974	Rp392.486	Rp221.502	Rp258.419	Rp31.088
R8	Rp293.393	Rp373.056	Rp186.528	Rp303.108	Rp184.585	Rp17.487	Rp258.419	Rp34.974	Rp0	Rp361.398	Rp188.471	Rp227.331	Rp17.681
R9	Rp248.704	Rp341.968	Rp398.315	Rp314.766	Rp176.813	Rp373.056	Rp273.963	Rp392.486	Rp361.398	Rp0	Rp165.155	Rp196.243	Rp359.455
R10	Rp106.865	Rp200.129	Rp227.331	Rp151.554	Rp8.549	Rp200.129	Rp106.865	Rp221.502	Rp188.471	Rp165.155	Rp0	Rp52.461	Rp190.414
R11	Rp69.948	Rp149.611	Rp227.331	Rp151.554	Rp66.062	Rp238.989	Rp106.865	Rp258.419	Rp227.331	Rp196.243	Rp52.461	Rp0	Rp227.331
R12	Rp281.735	Rp374.999	Rp380.828	Rp303.108	Rp186.528	Rp10.881	Rp260.362	Rp31.088	Rp17.681	Rp359.455	Rp190.414	Rp227.331	Rp0

### Lampiran 5. Biaya *Maintenance* Masing-Masing Kendaraan

#### Rincian Biaya *Maintenance* Kendaraan 1

<b>Komponen Biaya Perawatan Kendaraan 1</b> Armada Muatan 5 ton S 8499 JI	
<p><b>Biaya Perawatan Air ACCU</b>            Biaya Perawatan: Rp 20.000            Skala Perawatan: 1 bulan sekali            Perhitungan:  <math display="block">\frac{\text{Rp } 20.000}{26} = \text{Rp } 769,23/\text{hari}</math> <math display="block">\frac{\text{Rp } 769,23}{13 \text{ jam}} = \text{Rp } 59,17/\text{jam}/50\text{km}</math> <math display="block">\frac{\text{Rp } 59,17}{50} = \text{Rp } 1,183 /\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk perawatan air ACCU sebesar Rp 1,183/km</p>	<p><b>Biaya Penggantian Oli</b>            Biaya Perawatan: Rp 250.000            Skala Perawatan: 10.000 km  <math display="block">\frac{\text{Rp } 250.000}{10.000} = \text{Rp } 25/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk penggantian oli sebesar Rp 25/km</p>
<p><b>Biaya Perawatan ban</b>            Biaya Perawatan: Rp 55.000            Skala Perawatan: 3 minggu sekali  <math display="block">\frac{\text{Rp } 55.000}{18} = \text{Rp } 3.056 /\text{hari}</math> <math display="block">\frac{\text{Rp } 3.056}{13 \text{ jam}} = \text{Rp } 235/\text{jam}/50\text{km}</math> <math display="block">\frac{\text{Rp } 235}{50} = \text{Rp } 4,70/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk perawatan ban sebesar Rp 4,70/km</p>	<p><b>Biaya Penggantian Ban</b>            Biaya Perawatan: Rp 1.750.000            Skala Perawatan: 1 kali dalam 3 tahun  <math display="block">\frac{\text{Rp } 1.750.000}{36} = \text{Rp } 48.611,11 /\text{bulan}</math> <math display="block">\frac{\text{Rp } 48.611,11}{26} = \text{Rp } 1.870/\text{hari}</math> <math display="block">\frac{\text{Rp } 1.870}{13 \text{ jam}} = \text{Rp } 144 /\text{jam}/50\text{km}</math> <math display="block">\frac{\text{Rp } 144}{50} = \text{Rp } 2,88/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk penggantian ban sebesar Rp 2,88/km</p>
<p><b>Biaya Pajak Kendaraan</b>            Biaya Perawatan: Rp 1.766.100            Skala Perawatan: 1 kali dalam setahun  <math display="block">\frac{\text{Rp } 1.766.100}{12} = \text{Rp } 148.008,33 /\text{bulan}</math> <math display="block">\frac{\text{Rp } 148.008,33}{26} = \text{Rp } 5.695,705 /\text{hari}</math> <math display="block">\frac{\text{Rp } 5.695,705}{13 \text{ jam}} = \text{Rp } 438,13/\text{jam}/50\text{km}</math> <math display="block">\frac{\text{Rp } 438,13}{50} = \text{Rp } 8,7626 /\text{km}</math></p>	<p><b>Biaya servis gardan truck</b>            Biaya Perawatan: Rp 1.500.000            Skala Perawatan: 1 kali dalam 3 tahun  <math display="block">\frac{\text{Rp } 1.500.000}{36} = \text{Rp } 41.666,67 /\text{bulan}</math> <math display="block">\frac{\text{Rp } 41.666,67}{26} = \text{Rp } 1.602,56 /\text{hari}</math> <math display="block">\frac{\text{Rp } 1.602,56}{13 \text{ jam}} = \text{Rp } 123,27 /\text{jam}/50\text{km}</math> <math display="block">\frac{\text{Rp } 123,27}{50} = \text{Rp } 2,4654 /\text{km}</math></p>

<p>Jadi, biaya yang dikeluarkan untuk pajak kendaraan sebesar Rp 8,7626/km</p>	<p>Jadi, biaya yang dikeluarkan untuk servis gardan sebesar Rp 2,4654/km</p>
<p><b>Biaya Penggantian Aki</b>          Biaya Perawatan: Rp 543.000          Skala Perawatan: 1 kali dalam 3 tahun  <math>\frac{\text{Rp } 543.000}{36} = \text{Rp } 15.083,33</math> /bulan  <math>\frac{\text{Rp } 15.083,33}{26} = \text{Rp } 580,128</math> /hari  <math>\frac{\text{Rp } 580,128}{13 \text{ jam}} = \text{Rp } 44,625</math> /jam/50km  <math>\frac{\text{Rp } 44,625}{50} = \text{Rp } 0,8925</math>/km</p> <p>Jadi, biaya yang dikeluarkan untuk penggantian aki sebesar Rp 0,8925/km</p>	<p><b>Biaya Perawatan Fuel Filter</b>          Biaya Perawatan: Rp 130.000          Skala Perawatan: 15.000 km  <math>\frac{\text{Rp } 130.000}{15.000} = \text{Rp } 8,67</math> /km</p> <p>Jadi, biaya yang dikeluarkan untuk perawatan fuel filter sebesar Rp 8,67/km</p>
<p><b>Biaya Air Cleaner</b>          Biaya Perawatan: Rp 150.000          Skala Perawatan: 10.000 km  <math>\frac{\text{Rp } 150.000}{10.000} = \text{Rp } 15</math>/km</p> <p>Jadi, biaya yang dikeluarkan untuk air cleaner sebesar Rp 15/km</p>	<p><b>TOTAL BIAYA KENDARAAN 1:</b>          Pada rute <i>Existing</i>, total jarak yang ditempuh oleh kendaraan 1 sebesar <b>182 km</b>. sehingga untuk mencari total biaya yang dikeluarkan yakni dengan mengalihkan biaya/km pada setiap perawatan dengan total jarak yang ditempuh kemudian hasil perhitungan dijumlahkan seluruhnya. <b>Setelah dihitung biaya yang dikeluarkan oleh kendaraan 1 sebesar Rp 12.658,737</b></p>

Rincian Biaya *Maintenance* Kendaraan 2

<b>Komponen Biaya Perawatan Kendaraan 2</b> Armada Muatan 5 ton L 8184 AN	
<p><b>Biaya Perawatan Air ACCU</b> Biaya Perawatan: Rp 20.000 Skala Perawatan: 1 bulan sekali Perhitungan: <math>\frac{\text{Rp } 20.000}{26} = \text{Rp } 769,23/\text{hari}</math> <math>\frac{\text{Rp } 769,23}{13 \text{ jam}} = \text{Rp } 59,17/\text{jam}/50\text{km}</math> <math>\frac{\text{Rp } 59,17}{50} = \text{Rp } 1,183 /\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk perawatan air ACCU sebesar Rp 1,183/km</p>	<p><b>Biaya Penggantian Oli</b> Biaya Perawatan: Rp 250.000 Skala Perawatan: 10.000 km <math>\frac{\text{Rp } 250.000}{10.000} = \text{Rp } 25/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk penggantian oli sebesar Rp 25/km</p>
<p><b>Biaya Perawatan Ban</b> Biaya Perawatan: Rp 55.000 Skala Perawatan: 3 minggu sekali <math>\frac{\text{Rp } 55.000}{18} = \text{Rp } 3.056 /\text{hari}</math> <math>\frac{\text{Rp } 3.056}{13 \text{ jam}} = \text{Rp } 235/\text{jam}/50\text{km}</math> <math>\frac{\text{Rp } 235}{50} = \text{Rp } 4,70/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk perawatan ban sebesar Rp 4,70/km</p>	<p><b>Biaya Penggantian Ban</b> Biaya Perawatan: Rp 1.750.000 Skala Perawatan: 1 kali dalam 3 tahun <math>\frac{\text{Rp } 1.750.000}{36} = \text{Rp } 48.611,11 /\text{bulan}</math> <math>\frac{\text{Rp } 48.611,11}{26} = \text{Rp } 1.870/\text{hari}</math> <math>\frac{\text{Rp } 1.870}{13 \text{ jam}} = \text{Rp } 144 /\text{jam}/50\text{km}</math> <math>\frac{\text{Rp } 144}{50} = \text{Rp } 2,88/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk penggantian ban sebesar Rp 2,88/km</p>
<p><b>Biaya Pajak Kendaraan</b> Biaya Perawatan: Rp 1.954.000 Skala Perawatan: 1 kali dalam setahun <math>\frac{\text{Rp } 1.954.000}{12} = \text{Rp } 162.833,33 /\text{bulan}</math> <math>\frac{\text{Rp } 162.833,33}{26} = \text{Rp } 6.262,82 /\text{hari}</math> <math>\frac{\text{Rp } 6.262,82}{13 \text{ jam}} = \text{Rp } 481,755/\text{jam}/50\text{km}</math> <math>\frac{\text{Rp } 481,755}{50} = \text{Rp } 9,6351 /\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk pajak kendaraan sebesar Rp 9,6351/km</p>	<p><b>Biaya Servis Gardan Truck</b> Biaya Perawatan: Rp 1.500.000 Skala Perawatan: 1 kali dalam 3 tahun <math>\frac{\text{Rp } 1.500.000}{36} = \text{Rp } 41.666,67 /\text{bulan}</math> <math>\frac{\text{Rp } 41.666,67}{26} = \text{Rp } 1.602,56 /\text{hari}</math> <math>\frac{\text{Rp } 1.602,56}{13 \text{ jam}} = \text{Rp } 123,27 /\text{jam}/50\text{km}</math> <math>\frac{\text{Rp } 123,27}{50} = \text{Rp } 2,4654 /\text{km}</math></p>

	Jadi, biaya yang dikeluarkan untuk servis gardan sebesar Rp 2,4654/km
<p><b>Biaya Penggantian Aki</b>  Biaya Perawatan: Rp 543.000  Skala Perawatan: 1 kali dalam 3 tahun  <math>\frac{\text{Rp } 543.000}{36} = \text{Rp } 15.083,33</math> /bulan  <math>\frac{\text{Rp } 15.083,33}{26} = \text{Rp } 580,128</math> /hari  <math>\frac{\text{Rp } 580,128}{13 \text{ jam}} = \text{Rp } 44,625</math> /jam/50km  <math>\frac{\text{Rp } 44,625}{50} = \text{Rp } 0,8925/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk penggantian aki sebesar Rp 0,8925/km</p>	<p><b>Biaya Perawatan Fuel Filter</b>  Biaya Perawatan: Rp 130.000  Skala Perawatan: 15.000 km  <math>\frac{\text{Rp } 130.000}{15.000} = \text{Rp } 8,67</math> /km</p> <p>Jadi, biaya yang dikeluarkan untuk perawatan fuel filter sebesar Rp 8,67/km</p>
<p><b>Biaya Air Cleaner</b>  Biaya Perawatan: Rp 150.000  Skala Perawatan: 10.000 km  <math>\frac{\text{Rp } 150.000}{10.000} = \text{Rp } 15/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk air cleaner sebesar Rp 15/km</p>	<p><b>TOTAL BIAYA KENDARAAN 2:</b>  Pada rute <i>Existing</i>, total jarak yang ditempuh oleh kendaraan 2 sebesar <b>194 km</b>. sehingga untuk mencari total biaya yang dikeluarkan yakni dengan mengalihkan biaya/km pada setiap perawatan dengan total jarak yang ditempuh kemudian hasil perhitungan dijumlahkan seluruhnya. <b>Setelah dihitung biaya yang dikeluarkan oleh kendaraan 2 sebesar Rp 13.662,644</b></p>



Rincian Biaya *Maintenance* Kendaraan 3

<b>Komponen Biaya Perawatan Kendaraan 3</b> Armada Muatan 10 ton W 8948 DR	
<p><b>Biaya Perawatan Air ACCU</b>            Biaya Perawatan: Rp 20.000            Skala Perawatan: 1 bulan dua kali            Perhitungan:  <math>\frac{\text{Rp } 20.000}{26} = \text{Rp } 769,23/\text{hari}</math>  <math>\frac{\text{Rp } 769,23}{13 \text{ jam}} = \text{Rp } 59,17/\text{jam}/50\text{km}</math>  <math>\frac{\text{Rp } 59,17}{50} = \text{Rp } 1,183 /\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk perawatan air ACCU sebesar Rp 1,183/km</p>	<p><b>Biaya Penggantian Oli</b>            Biaya Perawatan: Rp 286.000            Skala Perawatan: 10.000 km  <math>\frac{\text{Rp } 286.000}{10.000} = \text{Rp } 28,6/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk penggantian oli sebesar Rp 28,6/km</p>
<p><b>Biaya Perawatan Ban</b>            Biaya Perawatan: Rp 100.000            Skala Perawatan: 2 minggu sekali  <math>\frac{\text{Rp } 100.000}{12} = \text{Rp } 8.333,33/\text{hari}</math>  <math>\frac{\text{Rp } 8.333,33}{13 \text{ jam}} = \text{Rp } 641,025/\text{jam}/50\text{km}</math>  <math>\frac{\text{Rp } 641,025}{50} = \text{Rp } 12,8205/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk perawatan ban sebesar Rp 12,8205/km</p>	<p><b>Biaya Penggantian Ban</b>            Biaya Perawatan: Rp 1.750.000            Skala Perawatan: 1 kali dalam 2,5 tahun  <math>\frac{\text{Rp } 1.750.000}{30} = \text{Rp } 58.333,33 /\text{bulan}</math>  <math>\frac{\text{Rp } 58.333,33}{26} = \text{Rp } 2.243,58/\text{hari}</math>  <math>\frac{\text{Rp } 2.243,58}{13 \text{ jam}} = \text{Rp } 172,58/\text{jam}/50\text{km}</math>  <math>\frac{\text{Rp } 172,58}{50} = \text{Rp } 3,4516/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk penggantian ban sebesar Rp 3,4516/km</p>
<p><b>Biaya Pajak Kendaraan</b>            Biaya Perawatan: Rp 2.237.600            Skala Perawatan: 1 kali dalam setahun  <math>\frac{\text{Rp } 2.237.600}{12} = \text{Rp } 186.466,67 /\text{bulan}</math>  <math>\frac{\text{Rp } 186.466,67}{26} = \text{Rp } 7.171,795 /\text{hari}</math>  <math>\frac{\text{Rp } 7.171,795}{13 \text{ jam}} = \text{Rp } 551,67 /\text{jam}/50\text{km}</math>  <math>\frac{\text{Rp } 551,67}{50} = \text{Rp } 11,0334/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk pajak kendaraan sebesar Rp 11,0334/km</p>	<p><b>Biaya Servis Gardan Truck</b>            Biaya Perawatan: Rp 3.500.000            Skala Perawatan: 1 kali dalam 2,5 tahun  <math>\frac{\text{Rp } 3.500.000}{30} = \text{Rp } 116.666,67 /\text{hari}</math>  <math>\frac{\text{Rp } 116.666,67}{13 \text{ jam}} = \text{Rp } 8.974,36 /\text{jam}/50\text{km}</math>  <math>\frac{\text{Rp } 8.974,36}{50} = \text{Rp } 179,4872 /\text{km}</math></p>

	Jadi, biaya yang dikeluarkan untuk servis gardan sebesar Rp 179,4872/km
<p><b>Biaya Penggantian Aki</b>  Biaya Perawatan: Rp 655.000  Skala Perawatan: 1 kali dalam 2,5 tahun  <math>\frac{\text{Rp } 655.000}{30} = \text{Rp } 21.833,33/\text{bulan}</math>  <math>\frac{\text{Rp } 21.833,33}{26} = \text{Rp } 839,743 /\text{hari}</math>  <math>\frac{\text{Rp } 839,743}{13 \text{ jam}} = \text{Rp } 64,5956/\text{jam}/50\text{km}</math>  <math>\frac{\text{Rp } 64,5956}{50} = \text{Rp } 1,292\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk penggantian aki sebesar Rp 1,292/km</p>	<p><b>Biaya Perawatan Fuel Filter</b>  Biaya Perawatan: Rp 170.000  Skala Perawatan: 18.000 km  <math>\frac{\text{Rp } 170.000}{18.000} = \text{Rp } 9,44/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk perawatan fuel filter sebesar Rp 9,44/km</p>
<p><b>Biaya Air Cleaner</b>  Biaya Perawatan: Rp 200.000  Skala Perawatan: 10.000 km  <math>\frac{\text{Rp } 200.000}{10.000} = \text{Rp } 20/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk air cleaner sebesar Rp 20/km</p>	<p><b>TOTAL BIAYA KENDARAAN 3:</b>  Pada rute <i>Existing</i>, total jarak yang ditempuh oleh kendaraan 3 sebesar <b>639,1 km</b>. sehingga untuk mencari total biaya yang dikeluarkan yakni dengan mengalihkan biaya/km pada setiap perawatan dengan total jarak yang ditempuh kemudian hasil perhitungan dijumlahkan seluruhnya. <b>Setelah dihitung biaya yang dikeluarkan oleh kendaraan 3 sebesar Rp 170.836,351</b></p>

Rincian Biaya *Maintenance* Kendaraan 4

<b>Komponen Biaya Perawatan Kendaraan 4</b> Armada Muatan 10 ton S 9349 UF	
<p><b>Biaya Perawatan Air ACCU</b>            Biaya Perawatan: Rp 20.000            Skala Perawatan: 1 bulan dua kali            Perhitungan:  <math>\frac{Rp\ 20.000}{26} = Rp\ 769,23/\text{hari}</math>  <math>\frac{Rp\ 769,23}{13\ \text{jam}} = Rp\ 59,17/\text{jam}/50\text{km}</math>  <math>\frac{Rp\ 59,17}{50} = Rp1,183 /\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk perawatan air ACCU sebesar Rp 1,183/km</p>	<p><b>Biaya Penggantian Oli</b>            Biaya Perawatan: Rp 286.000            Skala Perawatan: 10.000 km  <math>\frac{Rp\ 286.000}{10.000} = Rp\ 28,6/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk penggantian oli sebesar Rp 28,6/km</p>
<p><b>Biaya Perawatan Ban</b>            Biaya Perawatan: Rp 100.000            Skala Perawatan: 2 minggu sekali  <math>\frac{Rp\ 100.000}{12} = Rp\ 8.333,33/\text{hari}</math>  <math>\frac{Rp\ 8.333,33}{13\ \text{jam}} = Rp\ 641,025/\text{jam}/50\text{km}</math>  <math>\frac{Rp\ 641,025}{50} = Rp\ 12,8205/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk perawatan ban sebesar Rp 12,8205/km</p>	<p><b>Biaya Penggantian Ban</b>            Biaya Perawatan: Rp 1.750.000            Skala Perawatan: 1 kali dalam 2,5 tahun  <math>\frac{Rp\ 1.750.000}{30} = Rp\ 58.333,33 /\text{bulan}</math>  <math>\frac{Rp\ 58.333,33}{26} = Rp\ 2.243,58/\text{hari}</math>  <math>\frac{Rp\ 2.243,58}{13\ \text{jam}} = Rp\ 172,58/\text{jam}/50\text{km}</math>  <math>\frac{Rp\ 172,58}{50} = Rp\ 3,4516/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk penggantian ban sebesar Rp 3,4516/km</p>
<p><b>Biaya Pajak Kendaraan</b>            Biaya Perawatan: Rp 2.100.000            Skala Perawatan: 1 kali dalam setahun  <math>\frac{Rp\ 2.100.000}{12} = Rp\ 175.000 /\text{bulan}</math>  <math>\frac{Rp\ 175.000}{26} = Rp\ 6.730,77 /\text{hari}</math>  <math>\frac{Rp\ 6.730,77}{13\ \text{jam}} = Rp\ 517,75/\text{jam}/50\text{km}</math>  <math>\frac{Rp\ 517,75}{50} = Rp\ 10,355/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk pajak kendaraan sebesar Rp 10,355/km</p>	<p><b>Biaya Servis Gardan Truck</b>            Biaya Perawatan: Rp 3.500.000            Skala Perawatan: 1 kali dalam 2,5 tahun  <math>\frac{Rp\ 3.500.000}{30} = Rp\ 116.666,67 /\text{hari}</math>  <math>\frac{Rp\ 116.666,67}{13\ \text{jam}} = Rp\ 8.974,36 /\text{jam}/50\text{km}</math>  <math>\frac{Rp\ 8.974,36}{50} = Rp\ 179,4872 /\text{km}</math></p>

	Jadi, biaya yang dikeluarkan untuk servis gardan sebesar Rp 179,4872/km
<p><b>Biaya Penggantian Aki</b>          Biaya Perawatan: Rp 655.000          Skala Perawatan: 1 kali dalam 2,5 tahun  <math>\frac{\text{Rp } 655.000}{30} = \text{Rp } 21.833,33/\text{bulan}</math>  <math>\frac{\text{Rp } 21.833,33}{26} = \text{Rp } 839,743 /\text{hari}</math>  <math>\frac{\text{Rp } 839,743}{13 \text{ jam}} = \text{Rp } 64,5956/\text{jam}/50\text{km}</math>  <math>\frac{\text{Rp } 64,5956}{50} = \text{Rp } 1,292\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk penggantian aki sebesar Rp 1,292/km</p>	<p><b>Biaya Perawatan Fuel Filter</b>          Biaya Perawatan: Rp 170.000          Skala Perawatan: 18.000 km  <math>\frac{\text{Rp } 170.000}{18.000} = \text{Rp } 9,44/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk perawatan fuel filter sebesar Rp 9,44/km</p>
<p><b>Biaya Air Cleaner</b>          Biaya Perawatan: Rp 200.000          Skala Perawatan: 10.000 km  <math>\frac{\text{Rp } 200.000}{10.000} = \text{Rp } 20/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk air cleaner sebesar Rp 20/km</p>	<p><b>TOTAL BIAYA KENDARAAN 4:</b>          Pada rute <i>Existing</i>, total jarak yang ditempuh oleh kendaraan 4 sebesar <b>306 km</b>. sehingga untuk mencari total biaya yang dikeluarkan yakni dengan mengalihkan biaya/km pada setiap perawatan dengan total jarak yang ditempuh kemudian hasil perhitungan dijumlahkan seluruhnya. <b>Setelah dihitung biaya yang dikeluarkan oleh kendaraan 4 sebesar Rp 81.588,566</b></p>

Rincian Biaya *Maintenance* Kendaraan 5

<b>Komponen Biaya Perawatan Kendaraan 5</b> Armada Muatan 20 ton W 9709 UH	
<p><b>Biaya Perawatan Air ACCU</b> Biaya Perawatan: Rp 50.000 Skala Perawatan: 1 bulan dua kali Perhitungan: <math>\frac{\text{Rp } 50.000}{26} = \text{Rp } 1.923,076/\text{hari}</math> <math>\frac{\text{Rp } 1.923,076}{13 \text{ jam}} = \text{Rp } 147,929/\text{jam}/50\text{km}</math> <math>\frac{\text{Rp } 147,929}{50} = \text{Rp } 2,95858 /\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk perawatan air ACCU sebesar Rp 2,95858/km</p>	<p><b>Biaya Penggantian Oli</b> Biaya Perawatan: Rp 545.000 Skala Perawatan: 10.000 km <math>\frac{\text{Rp } 545.000}{10.000} = \text{Rp } 54,5/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk penggantian oli sebesar Rp 54,5/km</p>
<p><b>Biaya Perawatan Ban</b> Biaya Perawatan: Rp 200.000 Skala Perawatan: 2 minggu sekali <math>\frac{\text{Rp } 200.000}{12} = \text{Rp } 16.666,67/\text{hari}</math> <math>\frac{\text{Rp } 16.666,67}{13 \text{ jam}} = \text{Rp } 1.282,05/\text{jam}/50\text{km}</math> <math>\frac{\text{Rp } 1.282,05}{50} = \text{Rp } 25,641/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk perawatan ban sebesar Rp 25,641/km</p>	<p><b>Biaya Penggantian Ban</b> Biaya Perawatan: Rp 1.950.000 Skala Perawatan: 1 kali dalam 2 tahun <math>\frac{\text{Rp } 1.950.000}{24} = \text{Rp } 81.250 /\text{bulan}</math> <math>\frac{\text{Rp } 81.250}{26} = \text{Rp } 3.125/\text{hari}</math> <math>\frac{\text{Rp } 3.125}{13 \text{ jam}} = \text{Rp } 240,385/\text{jam}/50\text{km}</math> <math>\frac{\text{Rp } 240,385}{50} = \text{Rp } 4,8077/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk penggantian ban sebesar Rp 4,8077/km</p>
<p><b>Biaya Pajak Kendaraan</b> Biaya Perawatan: Rp 3.750.000 Skala Perawatan: 1 kali dalam setahun <math>\frac{\text{Rp } 3.750.000}{12} = \text{Rp } 312.500 /\text{bulan}</math> <math>\frac{\text{Rp } 312.500}{26} = \text{Rp } 12.019,23/\text{hari}</math> <math>\frac{\text{Rp } 12.019,23}{13 \text{ jam}} = \text{Rp } 924,556/\text{jam}/50\text{km}</math> <math>\frac{\text{Rp } 924,556}{50} = \text{Rp } 18,49112/\text{km}</math></p>	<p><b>Biaya Servis Gardan Truck</b> Biaya Perawatan: Rp 5.650.000 Skala Perawatan: 1 kali dalam 2 tahun <math>\frac{\text{Rp } 5.650.000}{24} = \text{Rp } 235.416,67 /\text{hari}</math> <math>\frac{\text{Rp } 235.416,67}{13 \text{ jam}} = \text{Rp } 18.108,975 /\text{jam}/50\text{km}</math> <math>\frac{\text{Rp } 18.108,975}{50} = \text{Rp } 362,1795/\text{km}</math></p>

<p>Jadi, biaya yang dikeluarkan untuk pajak kendaraan sebesar Rp 18,49112/km</p>	<p>Jadi, biaya yang dikeluarkan untuk servis gardan sebesar Rp 362,1795/km</p>
<p><b>Biaya Penggantian Aki</b>          Biaya Perawatan: Rp 1.500.000          Skala Perawatan: 1 kali dalam 2 tahun  <math>\frac{\text{Rp } 1.500.000}{24} = \text{Rp } 62.500/\text{bulan}</math>  <math>\frac{\text{Rp } 62.500}{26} = \text{Rp } 2.403,846 /\text{hari}</math>  <math>\frac{\text{Rp } 2.403,846}{13 \text{ jam}} = \text{Rp } 184,911/\text{jam}/50\text{km}</math>  <math>\frac{\text{Rp } 184,911}{50} = \text{Rp } 3,69822/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk penggantian aki sebesar Rp 3,69822/km</p>	<p><b>Biaya Perawatan Fuel Filter</b>          Biaya Perawatan: Rp 195.000          Skala Perawatan: 20.000 km  <math>\frac{\text{Rp } 195.000}{20.000} = \text{Rp } 9,75\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk perawatan fuel filter sebesar Rp 9,75/km</p>
<p><b>Biaya Air Cleaner</b>          Biaya Perawatan: Rp 300.000          Skala Perawatan: 10.000 km  <math>\frac{\text{Rp } 300.000}{10.000} = \text{Rp } 30/\text{km}</math></p> <p>Jadi, biaya yang dikeluarkan untuk air cleaner sebesar Rp 30/km</p>	<p><b>TOTAL BIAYA KENDARAAN 5:</b>          Pada rute <i>Existing</i>, total jarak yang ditempuh oleh kendaraan 5 sebesar <b>424 km</b>. sehingga untuk mencari total biaya yang dikeluarkan yakni dengan mengalihkan biaya/km pada setiap perawatan dengan total jarak yang ditempuh kemudian hasil perhitungan dijumlahkan seluruhnya. <b>Setelah dihitung biaya yang dikeluarkan oleh kendaraan 5 sebesar Rp 217.099,07</b></p>

## Lampiran 6. Input Model Matematis Program LINGO 18.0

```

LINGO Model - REVISI-Rumus Demand_Pengolahan Data LINGO
MODEL:
!Perusahaan Pupuk;
SETS:
!Primary Sets;
Customer/1..13/:d,a,b,l,T;!Sudah termasuk gudang;
Kendaraan/1..5/:w,E;
!Derivative sets;
CCK (Customer,Customer,Kendaraan): x, Cost;
CC (Customer,Customer):S,Ds;
ENDSETS
!Parameter Input;
d(i) = Permintaan dari Customer i
a = Batas Waktu Awal Pelayanan Toko
b = Batas Waktu Akhir Pelayanan Toko
l = Waktu Loading Unloading
S = Durasi Pengiriman
w = Kapasitas Angkut Maksimal dari Kendaraan
E = Biaya Bahan Bakar Kendaraan Per Kilometer
Cost (i,j,k) = Biaya Transportasi dari Customer i ke Customer j oleh kendaraan K
Ds = Matriks jarak i ke j
T = Waktu mulai Pelayanan
R = Bilangan Rill
!Variabel Keputusan;
x (i,j,k) = Bernilai 1 jika Customer i dikunjungi setelah j oleh Kendaraan k
y (i,k) = Bernilai 1 jika Customer i dikunjungi oleh kendaraan k;
DATA:
d = 0 70 160 160 85 90 35 25 60 110 85 25 30;
a = 420 570 660 420 960 840 420 420 660 540 540 420 420;
b = 1200 750 840 660 1170 1020 570 750 900 810 780 540 660;
l = 0 42 96 96 51 54 21 15 36 66 51 15 18;
w = 100 100 200 200 400;
E = 1943 1943 1943 1943 1943;
Ds =
0 65 145 106 64 153 32 161 151 128 55 96 145
65 0 125 83 110 159 74 209 192 176 103 77 193
145 125 0 45 112 106 95 103 96 205 117 117 196
106 83 45 0 73 162 45 173 156 162 78 78 156
64 110 112 73 0 102 54 112 95 91 4 34 86
153 199 106 162 102 0 139 10 9 192 103 123 5 6
32 74 95 45 54 139 0 150 133 141 55 55 134
161 209 103 173 112 10 150 0 18 202 114 133 16
151 192 96 156 95 9 133 18 0 186 97 117 9 1
128 176 205 162 91 192 141 202 186 0 85 101 185
55 103 117 78 4 4 103 55 114 97 85 0 27 99
36 77 117 78 34 123 55 133 117 101 27 0 117
145 193 196 156 96 5 6 134 16 9 1 185 98 117 0;
S =
0 93 158 114 90 171 54 194 168 201 92 66 157
93 0 180 130 140 223 117 249 222 253 145 109 210
158 180 0 70 114 186 160 181 181 259 164 121 187
114 130 70 0 68 155 74 178 153 211 78 72 141
90 140 114 68 0 107 64 130 107 155 10 55 89
171 223 186 155 107 0 147 22 21 249 116 133 15
54 117 160 74 64 147 0 171 146 207 71 71 134
194 249 181 178 130 22 171 0 40 271 140 157 38
168 222 181 153 107 21 146 40 0 244 112 130 24
201 253 259 211 155 249 207 271 244 0 132 158 227
92 145 164 78 10 116 71 140 112 132 0 60 104
66 109 121 72 55 133 71 157 130 158 60 0 134
157 210 187 141 89 15 134 38 24 227 104 134 0;
R= 10000000;
@text() = @write("Solusi optimalnya adalah:", @newline(1));
@text() = @writefor(CCK(i,j,k)) x(i,j,k) #GT# 0;
!Rute pengiriman dari customer "i," ke customer "j," oleh Kendaraan "k," sebesar " cost,@newline(1);
ENDDATA
!nilai Cij;
@FOR(Kendaraan(k):@FOR(Customer(i):@FOR(Customer (j):Cost(i,j,k) = E(k)*Ds(i,j));
!Fungsi Tujuan;
MIN = @SUM(Customer(i):@SUM(Customer(j):@SUM(Kendaraan(k): Cost(i,j,k)*x(i,j,k)));
!Fungsi Kendala;
!Setiap Pelanggan Harus Dilewati Sebagai Tujuan 1 kali;
@FOR(Customer(j)|j#NE#1:@SUM(Kendaraan(k):@SUM(Customer(i)|j#NE#i:x(i,j,k))=1);
!Setiap Pelanggan Harus Menjadi Asal 1 kali;
@FOR(Customer(i)|i#NE#1:@SUM(Kendaraan(k):@SUM(Customer(j)|j#NE#i:x(i,j,k))=1);
!Semua Kendaraan Berangkat Dari Depot;
@FOR(Kendaraan(k):@SUM(Customer(j)|j#NE#1:x(i,j,k))=1);
!Semua Kendaraan Pulang Ke Depot;
@FOR(Kendaraan(k):@SUM(Customer(i)|i#NE#1:x(i,l,k))=1);
!Rute;
@FOR(Kendaraan(k):@FOR(Customer(h)|h#GT#1:@SUM(Customer(i)|h#NE#i:x(i,h,k))-@SUM(Customer(j)|h#NE#i:x(h,j,k))=0);
!Total Permintaan dari Pelanggan Dalam Satu Rute Tidak Boleh Melebihi Kapasitas Kendaraan;
@FOR(Kendaraan(k):@SUM(Customer(i):@SUM(Customer(j)|i#NE#j:d(i)*x(i,j,k))<= W(k));
!Waktu memulai pelayanan tidak boleh melebihi batas awal dan batas akhir dari waktu pelayanan pelanggan;
@FOR(Customer (i)|i#NE# 1 : a (i) <= T(i));
@FOR(Customer (i)|i#NE# 1 : b (i) >= T(i)+ 1(i));
!Pelaksanaan;
@FOR(Customer (i)|i#NE# 1 :@FOR(Kendaraan(k):@FOR(Customer(j)|j#NE#i: T(j)>= T (i) + 1(i) + S(i,j) - R*(1-x(i,j,k) )));
!Variabel Keputusan yang memiliki variabel biner;
@FOR (CCK(i,j,k): @BIN (x(i,j,k)));
END

```

## Lampiran 7. Output Model Matematis Program LINGO 18.0

Solution Report - REVISI-Rumus Demand\_Pengolahan Data LINGO

Global optimal solution found.  
 Objective value: 2632959.  
 Objective bound: 2632959.  
 Infeasibilities: 0.000000  
 Extended solver steps: 287  
 Total solver iterations: 33374  
 Elapsed runtime seconds: 7.75

Solusi optimalnya adalah:  
 Rute pengiriman dari customer 1 ke customer 7 oleh Kendaraan 5 sebesar 62176  
 Rute pengiriman dari customer 1 ke customer 8 oleh Kendaraan 3 sebesar 312823  
 Rute pengiriman dari customer 1 ke customer 11 oleh Kendaraan 4 sebesar 106865  
 Rute pengiriman dari customer 1 ke customer 12 oleh Kendaraan 1 sebesar 69948  
 Rute pengiriman dari customer 1 ke customer 13 oleh Kendaraan 2 sebesar 281735  
 Rute pengiriman dari customer 2 ke customer 1 oleh Kendaraan 1 sebesar 126295  
 Rute pengiriman dari customer 3 ke customer 1 oleh Kendaraan 5 sebesar 281735  
 Rute pengiriman dari customer 4 ke customer 3 oleh Kendaraan 5 sebesar 87435  
 Rute pengiriman dari customer 5 ke customer 1 oleh Kendaraan 3 sebesar 124352  
 Rute pengiriman dari customer 6 ke customer 5 oleh Kendaraan 3 sebesar 198186  
 Rute pengiriman dari customer 7 ke customer 4 oleh Kendaraan 5 sebesar 87435  
 Rute pengiriman dari customer 8 ke customer 6 oleh Kendaraan 3 sebesar 19430  
 Rute pengiriman dari customer 9 ke customer 1 oleh Kendaraan 2 sebesar 293393  
 Rute pengiriman dari customer 10 ke customer 1 oleh Kendaraan 4 sebesar 248704  
 Rute pengiriman dari customer 11 ke customer 10 oleh Kendaraan 4 sebesar 165155  
 Rute pengiriman dari customer 12 ke customer 2 oleh Kendaraan 1 sebesar 149611  
 Rute pengiriman dari customer 13 ke customer 9 oleh Kendaraan 2 sebesar 17691.3

Model Class: MILP

Total variables: 858  
 Nonlinear variables: 0  
 Integer variables: 845  
 Total constraints: 844  
 Nonlinear constraints: 0  
 Total nonzeros: 6684  
 Nonlinear nonzeros: 0

Variable	Value	Reduced Cost
R	0.1000000E+08	0.000000
D( 1)	0.000000	0.000000
D( 2)	70.00000	0.000000
D( 3)	160.0000	0.000000
D( 4)	160.0000	0.000000
D( 5)	85.00000	0.000000
D( 6)	90.00000	0.000000
D( 7)	35.00000	0.000000
D( 8)	25.00000	0.000000
D( 9)	60.00000	0.000000
D( 10)	110.0000	0.000000
D( 11)	85.00000	0.000000
D( 12)	25.00000	0.000000
D( 13)	30.00000	0.000000
A( 1)	420.0000	0.000000
A( 2)	570.0000	0.000000
A( 3)	660.0000	0.000000
A( 4)	420.0000	0.000000
A( 5)	960.0000	0.000000
A( 6)	840.0000	0.000000
A( 7)	420.0000	0.000000
A( 8)	420.0000	0.000000
A( 9)	660.0000	0.000000
A( 11)	540.0000	0.000000
A( 12)	420.0000	0.000000
A( 13)	420.0000	0.000000
B( 1)	1200.000	0.000000
B( 2)	750.0000	0.000000
B( 3)	840.0000	0.000000
B( 4)	660.0000	0.000000
B( 5)	1170.000	0.000000
B( 6)	1020.000	0.000000
B( 7)	570.0000	0.000000
B( 8)	750.0000	0.000000
B( 9)	900.0000	0.000000
B( 10)	810.0000	0.000000
B( 11)	780.0000	0.000000
B( 12)	540.0000	0.000000
B( 13)	660.0000	0.000000
L( 1)	0.000000	0.000000
L( 2)	42.00000	0.000000
L( 3)	96.00000	0.000000
L( 4)	96.00000	0.000000
L( 5)	51.00000	0.000000
L( 6)	54.00000	0.000000
L( 7)	21.00000	0.000000
L( 8)	15.00000	0.000000
L( 9)	36.00000	0.000000
L( 10)	66.00000	0.000000
L( 11)	51.00000	0.000000
L( 12)	15.00000	0.000000
L( 13)	18.00000	0.000000
T( 1)	1260.000	0.000000
T( 2)	600.0000	0.000000
T( 3)	681.0000	0.000000
T( 4)	515.0000	0.000000
T( 5)	1119.000	0.000000
T( 6)	958.0000	0.000000
T( 7)	420.0000	0.000000
T( 8)	515.3889	0.000000



Solution Report - REVISI-Rumus Demand_Pengolahan Data LINGO		
T ( 9)	864.0000	0.000000
T ( 10)	744.0000	0.000000
T ( 11)	540.0000	0.000000
T ( 12)	420.0000	0.000000
T ( 13)	446.0159	0.000000
W ( 1)	100.0000	0.000000
W ( 2)	100.0000	0.000000
W ( 3)	200.0000	0.000000
W ( 4)	200.0000	0.000000
W ( 5)	400.0000	0.000000
E ( 1)	1943.000	0.000000
E ( 2)	1943.000	0.000000
E ( 3)	1943.000	0.000000
E ( 4)	1943.000	0.000000
E ( 5)	1943.000	0.000000
X ( 1, 1, 1)	0.000000	0.000000
X ( 1, 1, 2)	0.000000	0.000000
X ( 1, 1, 3)	0.000000	0.000000
X ( 1, 1, 4)	0.000000	0.000000
X ( 1, 1, 5)	0.000000	0.000000
X ( 1, 2, 1)	0.000000	126295.0
X ( 1, 2, 2)	0.000000	126295.0
X ( 1, 2, 3)	0.000000	126295.0
X ( 1, 2, 4)	0.000000	126295.0
X ( 1, 2, 5)	0.000000	126295.0
X ( 1, 3, 1)	0.000000	281735.0
X ( 1, 3, 2)	0.000000	281735.0
X ( 1, 3, 3)	0.000000	281735.0
X ( 1, 3, 4)	0.000000	281735.0
X ( 1, 3, 5)	0.000000	281735.0
X ( 1, 4, 1)	0.000000	205958.0
X ( 1, 4, 2)	0.000000	205958.0
X ( 1, 4, 3)	0.000000	205958.0
X ( 1, 4, 4)	0.000000	205958.0
X ( 1, 4, 5)	0.000000	205958.0
X ( 1, 5, 1)	0.000000	124352.0
X ( 1, 5, 2)	0.000000	124352.0
X ( 1, 5, 3)	0.000000	124352.0
X ( 1, 5, 4)	0.000000	124352.0
X ( 1, 5, 5)	0.000000	124352.0
X ( 1, 6, 1)	0.000000	297279.0
X ( 1, 6, 2)	0.000000	297279.0
X ( 1, 6, 3)	0.000000	297279.0
X ( 1, 6, 4)	0.000000	297279.0
X ( 1, 6, 5)	0.000000	297279.0
X ( 1, 7, 1)	0.000000	62176.00
X ( 1, 7, 2)	0.000000	62176.00
X ( 1, 7, 3)	0.000000	62176.00
X ( 1, 7, 4)	0.000000	62176.00
X ( 1, 7, 5)	1.000000	62176.00
X ( 1, 8, 1)	0.000000	312823.0
X ( 1, 8, 2)	0.000000	312823.0
X ( 1, 8, 3)	1.000000	312823.0
X ( 1, 8, 4)	0.000000	312823.0
X ( 1, 8, 5)	0.000000	312823.0
X ( 1, 9, 1)	0.000000	293393.0
X ( 1, 9, 2)	0.000000	293393.0
X ( 1, 9, 3)	0.000000	293393.0
X ( 1, 9, 4)	0.000000	293393.0
X ( 1, 9, 5)	0.000000	293393.0
X ( 1, 10, 1)	0.000000	248704.0
X ( 1, 10, 2)	0.000000	248704.0
X ( 1, 10, 3)	0.000000	248704.0
X ( 1, 10, 4)	0.000000	248704.0
X ( 1, 10, 5)	0.000000	248704.0
X ( 1, 11, 1)	0.000000	106865.0
X ( 1, 11, 2)	0.000000	106865.0
X ( 1, 11, 3)	0.000000	106865.0
X ( 1, 11, 4)	1.000000	106865.0
X ( 1, 11, 5)	0.000000	106865.0
X ( 1, 12, 1)	1.000000	69948.00
X ( 1, 12, 2)	0.000000	69948.00
X ( 1, 12, 3)	0.000000	69948.00
X ( 1, 12, 4)	0.000000	69948.00
X ( 1, 12, 5)	0.000000	69948.00
X ( 1, 13, 1)	0.000000	281735.0
X ( 1, 13, 2)	1.000000	281735.0
X ( 1, 13, 3)	0.000000	281735.0
X ( 1, 13, 4)	0.000000	281735.0
X ( 1, 13, 5)	0.000000	281735.0
X ( 2, 1, 1)	1.000000	126295.0
X ( 2, 1, 2)	0.000000	126295.0
X ( 2, 1, 3)	0.000000	126295.0
X ( 2, 1, 4)	0.000000	126295.0
X ( 2, 1, 5)	0.000000	126295.0
X ( 2, 2, 1)	0.000000	0.000000
X ( 2, 2, 2)	0.000000	0.000000
X ( 2, 2, 3)	0.000000	0.000000
X ( 2, 2, 4)	0.000000	0.000000
X ( 2, 2, 5)	0.000000	0.000000
X ( 2, 3, 1)	0.000000	242875.0
X ( 2, 3, 2)	0.000000	242875.0
X ( 2, 3, 3)	0.000000	242875.0
X ( 2, 3, 4)	0.000000	242875.0
X ( 2, 3, 5)	0.000000	242875.0
X ( 2, 4, 1)	0.000000	161269.0
X ( 2, 4, 2)	0.000000	161269.0
X ( 2, 4, 3)	0.000000	161269.0
X ( 2, 4, 4)	0.000000	161269.0
X ( 2, 4, 5)	0.000000	161269.0
X ( 2, 5, 1)	0.000000	213730.0
X ( 2, 5, 2)	0.000000	213730.0
X ( 2, 5, 3)	0.000000	213730.0
X ( 2, 5, 4)	0.000000	213730.0
X ( 2, 5, 5)	0.000000	213730.0
X ( 2, 6, 1)	0.000000	386657.0
X ( 2, 6, 2)	0.000000	386657.0
X ( 2, 6, 3)	0.000000	386657.0
X ( 2, 6, 4)	0.000000	386657.0
X ( 2, 6, 5)	0.000000	386657.0
X ( 2, 7, 1)	0.000000	143782.0

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X( 2, 7, 2)	0.000000	143782.0
X( 2, 7, 3)	0.000000	143782.0
X( 2, 7, 4)	0.000000	143782.0
X( 2, 7, 5)	0.000000	143782.0
X( 2, 8, 1)	0.000000	406087.0
X( 2, 8, 2)	0.000000	406087.0
X( 2, 8, 3)	0.000000	406087.0
X( 2, 8, 4)	0.000000	406087.0
X( 2, 8, 5)	0.000000	406087.0
X( 2, 9, 1)	0.000000	373056.0
X( 2, 9, 2)	0.000000	373056.0
X( 2, 9, 3)	0.000000	373056.0
X( 2, 9, 4)	0.000000	373056.0
X( 2, 9, 5)	0.000000	373056.0
X( 2, 10, 1)	0.000000	341968.0
X( 2, 10, 2)	0.000000	341968.0
X( 2, 10, 3)	0.000000	341968.0
X( 2, 10, 4)	0.000000	341968.0
X( 2, 10, 5)	0.000000	341968.0
X( 2, 11, 1)	0.000000	200129.0
X( 2, 11, 2)	0.000000	200129.0
X( 2, 11, 3)	0.000000	200129.0
X( 2, 11, 4)	0.000000	200129.0
X( 2, 11, 5)	0.000000	200129.0
X( 2, 12, 1)	0.000000	149611.0
X( 2, 12, 2)	0.000000	149611.0
X( 2, 12, 3)	0.000000	149611.0
X( 2, 12, 4)	0.000000	149611.0
X( 2, 12, 5)	0.000000	149611.0
X( 2, 13, 1)	0.000000	374999.0
X( 2, 13, 2)	0.000000	374999.0
X( 2, 13, 3)	0.000000	374999.0
X( 2, 13, 4)	0.000000	374999.0
X( 2, 13, 5)	0.000000	374999.0
X( 3, 1, 1)	0.000000	281735.0
X( 3, 1, 2)	0.000000	281735.0
X( 3, 1, 3)	0.000000	281735.0
X( 3, 1, 4)	0.000000	281735.0
X( 3, 1, 5)	1.000000	281735.0
X( 3, 2, 1)	0.000000	242875.0
X( 3, 2, 2)	0.000000	242875.0
X( 3, 2, 3)	0.000000	242875.0
X( 3, 2, 4)	0.000000	242875.0
X( 3, 2, 5)	0.000000	242875.0
X( 3, 3, 1)	0.000000	0.000000
X( 3, 3, 2)	0.000000	0.000000
X( 3, 3, 3)	0.000000	0.000000
X( 3, 3, 4)	0.000000	0.000000
X( 3, 3, 5)	0.000000	0.000000
X( 3, 4, 1)	0.000000	87435.00
X( 3, 4, 2)	0.000000	87435.00
X( 3, 4, 3)	0.000000	87435.00
X( 3, 4, 4)	0.000000	87435.00
X( 3, 4, 5)	0.000000	87435.00
X( 3, 5, 1)	0.000000	217616.0
X( 3, 5, 2)	0.000000	217616.0
X( 3, 5, 3)	0.000000	217616.0
X( 3, 5, 4)	0.000000	217616.0
X( 3, 5, 5)	0.000000	217616.0
X( 3, 6, 1)	0.000000	205958.0
X( 3, 6, 2)	0.000000	205958.0
X( 3, 6, 3)	0.000000	205958.0
X( 3, 6, 4)	0.000000	205958.0
X( 3, 6, 5)	0.000000	205958.0
X( 3, 7, 1)	0.000000	184585.0
X( 3, 7, 2)	0.000000	184585.0
X( 3, 7, 3)	0.000000	184585.0
X( 3, 7, 4)	0.000000	184585.0
X( 3, 7, 5)	0.000000	184585.0
X( 3, 8, 1)	0.000000	200129.0
X( 3, 8, 2)	0.000000	200129.0
X( 3, 8, 3)	0.000000	200129.0
X( 3, 8, 4)	0.000000	200129.0
X( 3, 8, 5)	0.000000	200129.0
X( 3, 9, 1)	0.000000	186528.0
X( 3, 9, 2)	0.000000	186528.0
X( 3, 9, 3)	0.000000	186528.0
X( 3, 9, 4)	0.000000	186528.0
X( 3, 9, 5)	0.000000	186528.0
X( 3, 10, 1)	0.000000	398315.0
X( 3, 10, 2)	0.000000	398315.0
X( 3, 10, 3)	0.000000	398315.0
X( 3, 10, 4)	0.000000	398315.0
X( 3, 10, 5)	0.000000	398315.0
X( 3, 11, 1)	0.000000	227331.0
X( 3, 11, 2)	0.000000	227331.0
X( 3, 11, 3)	0.000000	227331.0
X( 3, 11, 4)	0.000000	227331.0
X( 3, 11, 5)	0.000000	227331.0
X( 3, 12, 1)	0.000000	227331.0
X( 3, 12, 2)	0.000000	227331.0
X( 3, 12, 3)	0.000000	227331.0
X( 3, 12, 4)	0.000000	227331.0
X( 3, 12, 5)	0.000000	227331.0
X( 3, 13, 1)	0.000000	380828.0
X( 3, 13, 2)	0.000000	380828.0
X( 3, 13, 3)	0.000000	380828.0
X( 3, 13, 4)	0.000000	380828.0
X( 3, 13, 5)	0.000000	380828.0
X( 4, 1, 1)	0.000000	205958.0
X( 4, 1, 2)	0.000000	205958.0
X( 4, 1, 3)	0.000000	205958.0
X( 4, 1, 4)	0.000000	205958.0
X( 4, 1, 5)	0.000000	205958.0
X( 4, 2, 1)	0.000000	161269.0
X( 4, 2, 2)	0.000000	161269.0
X( 4, 2, 3)	0.000000	161269.0
X( 4, 2, 4)	0.000000	161269.0
X( 4, 2, 5)	0.000000	161269.0
X( 4, 3, 1)	0.000000	87435.00
X( 4, 3, 2)	0.000000	87435.00

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X( 4, 3, 3)	0.000000	87435.00
X( 4, 3, 4)	0.000000	87435.00
X( 4, 3, 5)	1.000000	87435.00
X( 4, 4, 1)	0.000000	0.000000
X( 4, 4, 2)	0.000000	0.000000
X( 4, 4, 3)	0.000000	0.000000
X( 4, 4, 4)	0.000000	0.000000
X( 4, 4, 5)	0.000000	0.000000
X( 4, 5, 1)	0.000000	141839.0
X( 4, 5, 2)	0.000000	141839.0
X( 4, 5, 3)	0.000000	141839.0
X( 4, 5, 4)	0.000000	141839.0
X( 4, 5, 5)	0.000000	141839.0
X( 4, 6, 1)	0.000000	314766.0
X( 4, 6, 2)	0.000000	314766.0
X( 4, 6, 3)	0.000000	314766.0
X( 4, 6, 4)	0.000000	314766.0
X( 4, 6, 5)	0.000000	314766.0
X( 4, 7, 1)	0.000000	87435.00
X( 4, 7, 2)	0.000000	87435.00
X( 4, 7, 3)	0.000000	87435.00
X( 4, 7, 4)	0.000000	87435.00
X( 4, 7, 5)	0.000000	87435.00
X( 4, 8, 1)	0.000000	336139.0
X( 4, 8, 2)	0.000000	336139.0
X( 4, 8, 3)	0.000000	336139.0
X( 4, 8, 4)	0.000000	336139.0
X( 4, 8, 5)	0.000000	336139.0
X( 4, 9, 1)	0.000000	303108.0
X( 4, 9, 2)	0.000000	303108.0
X( 4, 9, 3)	0.000000	303108.0
X( 4, 9, 4)	0.000000	303108.0
X( 4, 9, 5)	0.000000	303108.0
X( 4, 10, 1)	0.000000	314766.0
X( 4, 10, 2)	0.000000	314766.0
X( 4, 10, 3)	0.000000	314766.0
X( 4, 10, 4)	0.000000	314766.0
X( 4, 10, 5)	0.000000	314766.0
X( 4, 11, 1)	0.000000	151854.0
X( 4, 11, 2)	0.000000	151854.0
X( 4, 11, 3)	0.000000	151854.0
X( 4, 11, 4)	0.000000	151854.0
X( 4, 11, 5)	0.000000	151854.0
X( 4, 12, 1)	0.000000	151854.0
X( 4, 12, 2)	0.000000	151854.0
X( 4, 12, 3)	0.000000	151854.0
X( 4, 12, 4)	0.000000	151854.0
X( 4, 12, 5)	0.000000	151854.0
X( 4, 13, 1)	0.000000	303108.0
X( 4, 13, 2)	0.000000	303108.0
X( 4, 13, 3)	0.000000	303108.0
X( 4, 13, 4)	0.000000	303108.0
X( 4, 13, 5)	0.000000	303108.0
X( 5, 1, 1)	0.000000	124352.0
X( 5, 1, 2)	0.000000	124352.0
X( 5, 1, 3)	1.000000	124352.0
X( 5, 1, 4)	0.000000	124352.0
X( 5, 1, 5)	0.000000	124352.0
X( 5, 2, 1)	0.000000	213730.0
X( 5, 2, 2)	0.000000	213730.0
X( 5, 2, 3)	0.000000	213730.0
X( 5, 2, 4)	0.000000	213730.0
X( 5, 2, 5)	0.000000	213730.0
X( 5, 3, 1)	0.000000	217616.0
X( 5, 3, 2)	0.000000	217616.0
X( 5, 3, 3)	0.000000	217616.0
X( 5, 3, 4)	0.000000	217616.0
X( 5, 3, 5)	0.000000	217616.0
X( 5, 4, 1)	0.000000	141839.0
X( 5, 4, 2)	0.000000	141839.0
X( 5, 4, 3)	0.000000	141839.0
X( 5, 4, 4)	0.000000	141839.0
X( 5, 4, 5)	0.000000	141839.0
X( 5, 5, 1)	0.000000	0.000000
X( 5, 5, 2)	0.000000	0.000000
X( 5, 5, 3)	0.000000	0.000000
X( 5, 5, 4)	0.000000	0.000000
X( 5, 5, 5)	0.000000	0.000000
X( 5, 6, 1)	0.000000	199186.0
X( 5, 6, 2)	0.000000	199186.0
X( 5, 6, 3)	0.000000	199186.0
X( 5, 6, 4)	0.000000	199186.0
X( 5, 6, 5)	0.000000	199186.0
X( 5, 7, 1)	0.000000	104922.0
X( 5, 7, 2)	0.000000	104922.0
X( 5, 7, 3)	0.000000	104922.0
X( 5, 7, 4)	0.000000	104922.0
X( 5, 7, 5)	0.000000	104922.0
X( 5, 8, 1)	0.000000	217616.0
X( 5, 8, 2)	0.000000	217616.0
X( 5, 8, 3)	0.000000	217616.0
X( 5, 8, 4)	0.000000	217616.0
X( 5, 8, 5)	0.000000	217616.0
X( 5, 9, 1)	0.000000	184585.0
X( 5, 9, 2)	0.000000	184585.0
X( 5, 9, 3)	0.000000	184585.0
X( 5, 9, 4)	0.000000	184585.0
X( 5, 9, 5)	0.000000	184585.0
X( 5, 10, 1)	0.000000	176813.0
X( 5, 10, 2)	0.000000	176813.0
X( 5, 10, 3)	0.000000	176813.0
X( 5, 10, 4)	0.000000	176813.0
X( 5, 10, 5)	0.000000	176813.0
X( 5, 11, 1)	0.000000	8549.200
X( 5, 11, 2)	0.000000	8549.200
X( 5, 11, 3)	0.000000	8549.200
X( 5, 11, 4)	0.000000	8549.200
X( 5, 11, 5)	0.000000	8549.200
X( 5, 12, 1)	0.000000	66062.00
X( 5, 12, 2)	0.000000	66062.00
X( 5, 12, 3)	0.000000	66062.00

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X( 5, 12, 4)	0.000000	66062.00	
X( 5, 12, 5)	0.000000	66062.00	
X( 5, 13, 1)	0.000000	186528.0	
X( 5, 13, 2)	0.000000	186528.0	
X( 5, 13, 3)	0.000000	186528.0	
X( 5, 13, 4)	0.000000	186528.0	
X( 5, 13, 5)	0.000000	186528.0	
X( 6, 1, 1)	0.000000	297279.0	
X( 6, 1, 2)	0.000000	297279.0	
X( 6, 1, 3)	0.000000	297279.0	
X( 6, 1, 4)	0.000000	297279.0	
X( 6, 1, 5)	0.000000	297279.0	
X( 6, 2, 1)	0.000000	386657.0	
X( 6, 2, 2)	0.000000	386657.0	
X( 6, 2, 3)	0.000000	386657.0	
X( 6, 2, 4)	0.000000	386657.0	
X( 6, 2, 5)	0.000000	386657.0	
X( 6, 3, 1)	0.000000	205958.0	
X( 6, 3, 2)	0.000000	205958.0	
X( 6, 3, 3)	0.000000	205958.0	
X( 6, 3, 4)	0.000000	205958.0	
X( 6, 3, 5)	0.000000	205958.0	
X( 6, 4, 1)	0.000000	314766.0	
X( 6, 4, 2)	0.000000	314766.0	
X( 6, 4, 3)	0.000000	314766.0	
X( 6, 4, 4)	0.000000	314766.0	
X( 6, 4, 5)	0.000000	314766.0	
X( 6, 5, 1)	0.000000	198186.0	
X( 6, 5, 2)	0.000000	198186.0	
X( 6, 5, 3)	1.000000	198186.0	
X( 6, 5, 4)	0.000000	198186.0	
X( 6, 5, 5)	0.000000	198186.0	
X( 6, 6, 1)	0.000000	0.000000	
X( 6, 6, 2)	0.000000	0.000000	
X( 6, 6, 3)	0.000000	0.000000	
X( 6, 6, 4)	0.000000	0.000000	
X( 6, 6, 5)	0.000000	0.000000	
X( 6, 7, 1)	0.000000	270077.0	
X( 6, 7, 2)	0.000000	270077.0	
X( 6, 7, 3)	0.000000	270077.0	
X( 6, 7, 4)	0.000000	270077.0	
X( 6, 7, 5)	0.000000	270077.0	
X( 6, 8, 1)	0.000000	19430.00	
X( 6, 8, 2)	0.000000	19430.00	
X( 6, 8, 3)	0.000000	19430.00	
X( 6, 8, 4)	0.000000	19430.00	
X( 6, 8, 5)	0.000000	19430.00	
X( 6, 9, 1)	0.000000	17487.00	
X( 6, 9, 2)	0.000000	17487.00	
X( 6, 9, 3)	0.000000	17487.00	
X( 6, 9, 4)	0.000000	17487.00	
X( 6, 9, 5)	0.000000	17487.00	
X( 6, 10, 1)	0.000000	373056.0	
X( 6, 10, 2)	0.000000	373056.0	
X( 6, 10, 3)	0.000000	373056.0	
X( 6, 10, 4)	0.000000	373056.0	
X( 6, 10, 5)	0.000000	373056.0	
X( 6, 11, 1)	0.000000	200129.0	
X( 6, 11, 2)	0.000000	200129.0	
X( 6, 11, 3)	0.000000	200129.0	
X( 6, 11, 4)	0.000000	200129.0	
X( 6, 11, 5)	0.000000	200129.0	
X( 6, 12, 1)	0.000000	238989.0	
X( 6, 12, 2)	0.000000	238989.0	
X( 6, 12, 3)	0.000000	238989.0	
X( 6, 12, 4)	0.000000	238989.0	
X( 6, 12, 5)	0.000000	238989.0	
X( 6, 13, 1)	0.000000	10880.80	
X( 6, 13, 2)	0.000000	10880.80	
X( 6, 13, 3)	0.000000	10880.80	
X( 6, 13, 4)	0.000000	10880.80	
X( 6, 13, 5)	0.000000	10880.80	
X( 7, 1, 1)	0.000000	62176.00	
X( 7, 1, 2)	0.000000	62176.00	
X( 7, 1, 3)	0.000000	62176.00	
X( 7, 1, 4)	0.000000	62176.00	
X( 7, 1, 5)	0.000000	62176.00	
X( 7, 2, 1)	0.000000	143782.0	
X( 7, 2, 2)	0.000000	143782.0	
X( 7, 2, 3)	0.000000	143782.0	
X( 7, 2, 4)	0.000000	143782.0	
X( 7, 2, 5)	0.000000	143782.0	
X( 7, 3, 1)	0.000000	184585.0	
X( 7, 3, 2)	0.000000	184585.0	
X( 7, 3, 3)	0.000000	184585.0	
X( 7, 3, 4)	0.000000	184585.0	
X( 7, 3, 5)	0.000000	184585.0	
X( 7, 4, 1)	0.000000	87435.00	
X( 7, 4, 2)	0.000000	87435.00	
X( 7, 4, 3)	0.000000	87435.00	
X( 7, 4, 4)	0.000000	87435.00	
X( 7, 4, 5)	1.000000	87435.00	
X( 7, 5, 1)	0.000000	104922.0	
X( 7, 5, 2)	0.000000	104922.0	
X( 7, 5, 3)	0.000000	104922.0	
X( 7, 5, 4)	0.000000	104922.0	
X( 7, 5, 5)	0.000000	104922.0	
X( 7, 6, 1)	0.000000	270077.0	
X( 7, 6, 2)	0.000000	270077.0	
X( 7, 6, 3)	0.000000	270077.0	
X( 7, 6, 4)	0.000000	270077.0	
X( 7, 6, 5)	0.000000	270077.0	
X( 7, 7, 1)	0.000000	0.000000	
X( 7, 7, 2)	0.000000	0.000000	
X( 7, 7, 3)	0.000000	0.000000	
X( 7, 7, 4)	0.000000	0.000000	
X( 7, 7, 5)	0.000000	0.000000	
X( 7, 8, 1)	0.000000	291450.0	
X( 7, 8, 2)	0.000000	291450.0	
X( 7, 8, 3)	0.000000	291450.0	
X( 7, 8, 4)	0.000000	291450.0	

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X( 7, 8, 5)	0.000000	291450.0
X( 7, 9, 1)	0.000000	258419.0
X( 7, 9, 2)	0.000000	258419.0
X( 7, 9, 3)	0.000000	258419.0
X( 7, 9, 4)	0.000000	258419.0
X( 7, 9, 5)	0.000000	258419.0
X( 7, 10, 1)	0.000000	273963.0
X( 7, 10, 2)	0.000000	273963.0
X( 7, 10, 3)	0.000000	273963.0
X( 7, 10, 4)	0.000000	273963.0
X( 7, 10, 5)	0.000000	273963.0
X( 7, 11, 1)	0.000000	106865.0
X( 7, 11, 2)	0.000000	106865.0
X( 7, 11, 3)	0.000000	106865.0
X( 7, 11, 4)	0.000000	106865.0
X( 7, 11, 5)	0.000000	106865.0
X( 7, 12, 1)	0.000000	106865.0
X( 7, 12, 2)	0.000000	106865.0
X( 7, 12, 3)	0.000000	106865.0
X( 7, 12, 4)	0.000000	106865.0
X( 7, 12, 5)	0.000000	106865.0
X( 7, 13, 1)	0.000000	260362.0
X( 7, 13, 2)	0.000000	260362.0
X( 7, 13, 3)	0.000000	260362.0
X( 7, 13, 4)	0.000000	260362.0
X( 7, 13, 5)	0.000000	260362.0
X( 8, 1, 1)	0.000000	312823.0
X( 8, 1, 2)	0.000000	312823.0
X( 8, 1, 3)	0.000000	312823.0
X( 8, 1, 4)	0.000000	312823.0
X( 8, 1, 5)	0.000000	312823.0
X( 8, 2, 1)	0.000000	406087.0
X( 8, 2, 2)	0.000000	406087.0
X( 8, 2, 3)	0.000000	406087.0
X( 8, 2, 4)	0.000000	406087.0
X( 8, 2, 5)	0.000000	406087.0
X( 8, 3, 1)	0.000000	200129.0
X( 8, 3, 2)	0.000000	200129.0
X( 8, 3, 3)	0.000000	200129.0
X( 8, 3, 4)	0.000000	200129.0
X( 8, 3, 5)	0.000000	200129.0
X( 8, 4, 1)	0.000000	336139.0
X( 8, 4, 2)	0.000000	336139.0
X( 8, 4, 3)	0.000000	336139.0
X( 8, 4, 4)	0.000000	336139.0
X( 8, 4, 5)	0.000000	336139.0
X( 8, 5, 1)	0.000000	217616.0
X( 8, 5, 2)	0.000000	217616.0
X( 8, 5, 3)	0.000000	217616.0
X( 8, 5, 4)	0.000000	217616.0
X( 8, 5, 5)	0.000000	217616.0
X( 8, 6, 1)	0.000000	19430.00
X( 8, 6, 2)	0.000000	19430.00
X( 8, 6, 3)	1.000000	19430.00
X( 8, 6, 4)	0.000000	19430.00
X( 8, 6, 5)	0.000000	19430.00
X( 8, 7, 1)	0.000000	291450.0
X( 8, 7, 2)	0.000000	291450.0
X( 8, 7, 3)	0.000000	291450.0
X( 8, 7, 4)	0.000000	291450.0
X( 8, 7, 5)	0.000000	291450.0
X( 8, 8, 1)	0.000000	0.000000
X( 8, 8, 2)	0.000000	0.000000
X( 8, 8, 3)	0.000000	0.000000
X( 8, 8, 4)	0.000000	0.000000
X( 8, 8, 5)	0.000000	0.000000
X( 8, 9, 1)	0.000000	34974.00
X( 8, 9, 2)	0.000000	34974.00
X( 8, 9, 3)	0.000000	34974.00
X( 8, 9, 4)	0.000000	34974.00
X( 8, 9, 5)	0.000000	34974.00
X( 8, 10, 1)	0.000000	392486.0
X( 8, 10, 2)	0.000000	392486.0
X( 8, 10, 3)	0.000000	392486.0
X( 8, 10, 4)	0.000000	392486.0
X( 8, 10, 5)	0.000000	392486.0
X( 8, 11, 1)	0.000000	221502.0
X( 8, 11, 2)	0.000000	221502.0
X( 8, 11, 3)	0.000000	221502.0
X( 8, 11, 4)	0.000000	221502.0
X( 8, 11, 5)	0.000000	221502.0
X( 8, 12, 1)	0.000000	258419.0
X( 8, 12, 2)	0.000000	258419.0
X( 8, 12, 3)	0.000000	258419.0
X( 8, 12, 4)	0.000000	258419.0
X( 8, 12, 5)	0.000000	258419.0
X( 8, 13, 1)	0.000000	31088.00
X( 8, 13, 2)	0.000000	31088.00
X( 8, 13, 3)	0.000000	31088.00
X( 8, 13, 4)	0.000000	31088.00
X( 8, 13, 5)	0.000000	31088.00
X( 9, 1, 1)	0.000000	293393.0
X( 9, 1, 2)	1.000000	293393.0
X( 9, 1, 3)	0.000000	293393.0
X( 9, 1, 4)	0.000000	293393.0
X( 9, 1, 5)	0.000000	293393.0
X( 9, 2, 1)	0.000000	373056.0
X( 9, 2, 2)	0.000000	373056.0
X( 9, 2, 3)	0.000000	373056.0
X( 9, 2, 4)	0.000000	373056.0
X( 9, 2, 5)	0.000000	373056.0
X( 9, 3, 1)	0.000000	186528.0
X( 9, 3, 2)	0.000000	186528.0
X( 9, 3, 3)	0.000000	186528.0
X( 9, 3, 4)	0.000000	186528.0
X( 9, 3, 5)	0.000000	186528.0
X( 9, 4, 1)	0.000000	303108.0
X( 9, 4, 2)	0.000000	303108.0
X( 9, 4, 3)	0.000000	303108.0
X( 9, 4, 4)	0.000000	303108.0
X( 9, 4, 5)	0.000000	303108.0

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X( 9, 5, 1)	0.000000	184585.0
X( 9, 5, 2)	0.000000	184585.0
X( 9, 5, 3)	0.000000	184585.0
X( 9, 5, 4)	0.000000	184585.0
X( 9, 5, 5)	0.000000	184585.0
X( 9, 6, 1)	0.000000	17487.00
X( 9, 6, 2)	0.000000	17487.00
X( 9, 6, 3)	0.000000	17487.00
X( 9, 6, 4)	0.000000	17487.00
X( 9, 6, 5)	0.000000	17487.00
X( 9, 7, 1)	0.000000	258419.0
X( 9, 7, 2)	0.000000	258419.0
X( 9, 7, 3)	0.000000	258419.0
X( 9, 7, 4)	0.000000	258419.0
X( 9, 7, 5)	0.000000	258419.0
X( 9, 8, 1)	0.000000	34974.00
X( 9, 8, 2)	0.000000	34974.00
X( 9, 8, 3)	0.000000	34974.00
X( 9, 8, 4)	0.000000	34974.00
X( 9, 8, 5)	0.000000	34974.00
X( 9, 9, 1)	0.000000	0.000000
X( 9, 9, 2)	0.000000	0.000000
X( 9, 9, 3)	0.000000	0.000000
X( 9, 9, 4)	0.000000	0.000000
X( 9, 9, 5)	0.000000	0.000000
X( 9, 10, 1)	0.000000	361398.0
X( 9, 10, 2)	0.000000	361398.0
X( 9, 10, 3)	0.000000	361398.0
X( 9, 10, 4)	0.000000	361398.0
X( 9, 10, 5)	0.000000	361398.0
X( 9, 11, 1)	0.000000	188471.0
X( 9, 11, 2)	0.000000	188471.0
X( 9, 11, 3)	0.000000	188471.0
X( 9, 11, 4)	0.000000	188471.0
X( 9, 11, 5)	0.000000	188471.0
X( 9, 12, 1)	0.000000	227331.0
X( 9, 12, 2)	0.000000	227331.0
X( 9, 12, 3)	0.000000	227331.0
X( 9, 12, 4)	0.000000	227331.0
X( 9, 12, 5)	0.000000	227331.0
X( 9, 13, 1)	0.000000	17681.30
X( 9, 13, 2)	0.000000	17681.30
X( 9, 13, 3)	0.000000	17681.30
X( 9, 13, 4)	0.000000	17681.30
X( 9, 13, 5)	0.000000	17681.30
X( 10, 1, 1)	0.000000	248704.0
X( 10, 1, 2)	0.000000	248704.0
X( 10, 1, 3)	0.000000	248704.0
X( 10, 1, 4)	0.000000	248704.0
X( 10, 1, 5)	0.000000	248704.0
X( 10, 2, 1)	0.000000	341968.0
X( 10, 2, 2)	0.000000	341968.0
X( 10, 2, 3)	0.000000	341968.0
X( 10, 2, 4)	0.000000	341968.0
X( 10, 2, 5)	0.000000	341968.0
X( 10, 3, 1)	0.000000	398315.0
X( 10, 3, 2)	0.000000	398315.0
X( 10, 3, 3)	0.000000	398315.0
X( 10, 3, 4)	0.000000	398315.0
X( 10, 3, 5)	0.000000	398315.0
X( 10, 4, 1)	0.000000	314766.0
X( 10, 4, 2)	0.000000	314766.0
X( 10, 4, 3)	0.000000	314766.0
X( 10, 4, 4)	0.000000	314766.0
X( 10, 4, 5)	0.000000	314766.0
X( 10, 5, 1)	0.000000	176813.0
X( 10, 5, 2)	0.000000	176813.0
X( 10, 5, 3)	0.000000	176813.0
X( 10, 5, 4)	0.000000	176813.0
X( 10, 5, 5)	0.000000	176813.0
X( 10, 6, 1)	0.000000	373056.0
X( 10, 6, 2)	0.000000	373056.0
X( 10, 6, 3)	0.000000	373056.0
X( 10, 6, 4)	0.000000	373056.0
X( 10, 6, 5)	0.000000	373056.0
X( 10, 7, 1)	0.000000	273963.0
X( 10, 7, 2)	0.000000	273963.0
X( 10, 7, 3)	0.000000	273963.0
X( 10, 7, 4)	0.000000	273963.0
X( 10, 7, 5)	0.000000	273963.0
X( 10, 8, 1)	0.000000	392486.0
X( 10, 8, 2)	0.000000	392486.0
X( 10, 8, 3)	0.000000	392486.0
X( 10, 8, 4)	0.000000	392486.0
X( 10, 8, 5)	0.000000	392486.0
X( 10, 9, 1)	0.000000	361398.0
X( 10, 9, 2)	0.000000	361398.0
X( 10, 9, 3)	0.000000	361398.0
X( 10, 9, 4)	0.000000	361398.0
X( 10, 9, 5)	0.000000	361398.0
X( 10, 10, 1)	0.000000	0.000000
X( 10, 10, 2)	0.000000	0.000000
X( 10, 10, 3)	0.000000	0.000000
X( 10, 10, 4)	0.000000	0.000000
X( 10, 10, 5)	0.000000	0.000000
X( 10, 11, 1)	0.000000	165155.0
X( 10, 11, 2)	0.000000	165155.0
X( 10, 11, 3)	0.000000	165155.0
X( 10, 11, 4)	0.000000	165155.0
X( 10, 11, 5)	0.000000	165155.0
X( 10, 12, 1)	0.000000	196243.0
X( 10, 12, 2)	0.000000	196243.0
X( 10, 12, 3)	0.000000	196243.0
X( 10, 12, 4)	0.000000	196243.0
X( 10, 12, 5)	0.000000	196243.0
X( 10, 13, 1)	0.000000	359455.0
X( 10, 13, 2)	0.000000	359455.0
X( 10, 13, 3)	0.000000	359455.0
X( 10, 13, 4)	0.000000	359455.0
X( 10, 13, 5)	0.000000	359455.0
X( 11, 1, 1)	0.000000	106865.0

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X( 11, 1, 2)	0.000000	106865.0
X( 11, 1, 3)	0.000000	106865.0
X( 11, 1, 4)	0.000000	106865.0
X( 11, 1, 5)	0.000000	106865.0
X( 11, 2, 1)	0.000000	200129.0
X( 11, 2, 2)	0.000000	200129.0
X( 11, 2, 3)	0.000000	200129.0
X( 11, 2, 4)	0.000000	200129.0
X( 11, 2, 5)	0.000000	200129.0
X( 11, 3, 1)	0.000000	227331.0
X( 11, 3, 2)	0.000000	227331.0
X( 11, 3, 3)	0.000000	227331.0
X( 11, 3, 4)	0.000000	227331.0
X( 11, 3, 5)	0.000000	227331.0
X( 11, 4, 1)	0.000000	151554.0
X( 11, 4, 2)	0.000000	151554.0
X( 11, 4, 3)	0.000000	151554.0
X( 11, 4, 4)	0.000000	151554.0
X( 11, 4, 5)	0.000000	151554.0
X( 11, 5, 1)	0.000000	8549.200
X( 11, 5, 2)	0.000000	8549.200
X( 11, 5, 3)	0.000000	8549.200
X( 11, 5, 4)	0.000000	8549.200
X( 11, 5, 5)	0.000000	8549.200
X( 11, 6, 1)	0.000000	200129.0
X( 11, 6, 2)	0.000000	200129.0
X( 11, 6, 3)	0.000000	200129.0
X( 11, 6, 4)	0.000000	200129.0
X( 11, 6, 5)	0.000000	200129.0
X( 11, 7, 1)	0.000000	106865.0
X( 11, 7, 2)	0.000000	106865.0
X( 11, 7, 3)	0.000000	106865.0
X( 11, 7, 4)	0.000000	106865.0
X( 11, 7, 5)	0.000000	106865.0
X( 11, 8, 1)	0.000000	221502.0
X( 11, 8, 2)	0.000000	221502.0
X( 11, 8, 3)	0.000000	221502.0
X( 11, 8, 4)	0.000000	221502.0
X( 11, 8, 5)	0.000000	221502.0
X( 11, 9, 1)	0.000000	188471.0
X( 11, 9, 2)	0.000000	188471.0
X( 11, 9, 3)	0.000000	188471.0
X( 11, 9, 4)	0.000000	188471.0
X( 11, 9, 5)	0.000000	188471.0
X( 11, 10, 1)	0.000000	165155.0
X( 11, 10, 2)	0.000000	165155.0
X( 11, 10, 3)	0.000000	165155.0
X( 11, 10, 4)	1.000000	165155.0
X( 11, 10, 5)	0.000000	165155.0
X( 11, 11, 1)	0.000000	0.000000
X( 11, 11, 2)	0.000000	0.000000
X( 11, 11, 3)	0.000000	0.000000
X( 11, 11, 4)	0.000000	0.000000
X( 11, 11, 5)	0.000000	0.000000
X( 11, 12, 1)	0.000000	52461.00
X( 11, 12, 2)	0.000000	52461.00
X( 11, 12, 3)	0.000000	52461.00
X( 11, 12, 4)	0.000000	52461.00
X( 11, 12, 5)	0.000000	52461.00
X( 11, 13, 1)	0.000000	190414.0
X( 11, 13, 2)	0.000000	190414.0
X( 11, 13, 3)	0.000000	190414.0
X( 11, 13, 4)	0.000000	190414.0
X( 11, 13, 5)	0.000000	190414.0
X( 12, 1, 1)	0.000000	69948.00
X( 12, 1, 2)	0.000000	69948.00
X( 12, 1, 3)	0.000000	69948.00
X( 12, 1, 4)	0.000000	69948.00
X( 12, 1, 5)	0.000000	69948.00
X( 12, 2, 1)	1.000000	149611.0
X( 12, 2, 2)	0.000000	149611.0
X( 12, 2, 3)	0.000000	149611.0
X( 12, 2, 4)	0.000000	149611.0
X( 12, 2, 5)	0.000000	149611.0
X( 12, 3, 1)	0.000000	227331.0
X( 12, 3, 2)	0.000000	227331.0
X( 12, 3, 3)	0.000000	227331.0
X( 12, 3, 4)	0.000000	227331.0
X( 12, 3, 5)	0.000000	227331.0
X( 12, 4, 1)	0.000000	151554.0
X( 12, 4, 2)	0.000000	151554.0
X( 12, 4, 3)	0.000000	151554.0
X( 12, 4, 4)	0.000000	151554.0
X( 12, 4, 5)	0.000000	151554.0
X( 12, 5, 1)	0.000000	66062.00
X( 12, 5, 2)	0.000000	66062.00
X( 12, 5, 3)	0.000000	66062.00
X( 12, 5, 4)	0.000000	66062.00
X( 12, 5, 5)	0.000000	66062.00
X( 12, 6, 1)	0.000000	238989.0
X( 12, 6, 2)	0.000000	238989.0
X( 12, 6, 3)	0.000000	238989.0
X( 12, 6, 4)	0.000000	238989.0
X( 12, 6, 5)	0.000000	238989.0
X( 12, 7, 1)	0.000000	106865.0
X( 12, 7, 2)	0.000000	106865.0
X( 12, 7, 3)	0.000000	106865.0
X( 12, 7, 4)	0.000000	106865.0
X( 12, 7, 5)	0.000000	106865.0
X( 12, 8, 1)	0.000000	258419.0
X( 12, 8, 2)	0.000000	258419.0
X( 12, 8, 3)	0.000000	258419.0
X( 12, 8, 4)	0.000000	258419.0
X( 12, 8, 5)	0.000000	258419.0
X( 12, 9, 1)	0.000000	227331.0
X( 12, 9, 2)	0.000000	227331.0
X( 12, 9, 3)	0.000000	227331.0
X( 12, 9, 4)	0.000000	227331.0
X( 12, 9, 5)	0.000000	227331.0
X( 12, 10, 1)	0.000000	196243.0
X( 12, 10, 2)	0.000000	196243.0

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X( 12, 10, 3)	0.000000	196243.0
X( 12, 10, 4)	0.000000	196243.0
X( 12, 10, 5)	0.000000	196243.0
X( 12, 11, 1)	0.000000	52461.00
X( 12, 11, 2)	0.000000	52461.00
X( 12, 11, 3)	0.000000	52461.00
X( 12, 11, 4)	0.000000	52461.00
X( 12, 11, 5)	0.000000	52461.00
X( 12, 12, 1)	0.000000	0.000000
X( 12, 12, 2)	0.000000	0.000000
X( 12, 12, 3)	0.000000	0.000000
X( 12, 12, 4)	0.000000	0.000000
X( 12, 12, 5)	0.000000	0.000000
X( 12, 13, 1)	0.000000	227331.0
X( 12, 13, 2)	0.000000	227331.0
X( 12, 13, 3)	0.000000	227331.0
X( 12, 13, 4)	0.000000	227331.0
X( 12, 13, 5)	0.000000	227331.0
X( 13, 1, 1)	0.000000	281735.0
X( 13, 1, 2)	0.000000	281735.0
X( 13, 1, 3)	0.000000	281735.0
X( 13, 1, 4)	0.000000	281735.0
X( 13, 1, 5)	0.000000	281735.0
X( 13, 2, 1)	0.000000	374999.0
X( 13, 2, 2)	0.000000	374999.0
X( 13, 2, 3)	0.000000	374999.0
X( 13, 2, 4)	0.000000	374999.0
X( 13, 2, 5)	0.000000	374999.0
X( 13, 3, 1)	0.000000	380828.0
X( 13, 3, 2)	0.000000	380828.0
X( 13, 3, 3)	0.000000	380828.0
X( 13, 3, 4)	0.000000	380828.0
X( 13, 3, 5)	0.000000	380828.0
X( 13, 4, 1)	0.000000	303108.0
X( 13, 4, 2)	0.000000	303108.0
X( 13, 4, 3)	0.000000	303108.0
X( 13, 4, 4)	0.000000	303108.0
X( 13, 4, 5)	0.000000	303108.0
X( 13, 5, 1)	0.000000	186528.0
X( 13, 5, 2)	0.000000	186528.0
X( 13, 5, 3)	0.000000	186528.0
X( 13, 5, 4)	0.000000	186528.0
X( 13, 5, 5)	0.000000	186528.0
X( 13, 6, 1)	0.000000	10880.80
X( 13, 6, 2)	0.000000	10880.80
X( 13, 6, 3)	0.000000	10880.80
X( 13, 6, 4)	0.000000	10880.80
X( 13, 6, 5)	0.000000	10880.80
X( 13, 7, 1)	0.000000	260362.0
X( 13, 7, 2)	0.000000	260362.0
X( 13, 7, 3)	0.000000	260362.0
X( 13, 7, 4)	0.000000	260362.0
X( 13, 7, 5)	0.000000	260362.0
X( 13, 8, 1)	0.000000	31088.00
X( 13, 8, 2)	0.000000	31088.00
X( 13, 8, 3)	0.000000	31088.00
X( 13, 8, 4)	0.000000	31088.00
X( 13, 8, 5)	0.000000	31088.00
X( 13, 9, 1)	0.000000	17691.30
X( 13, 9, 2)	1.000000	17691.30
X( 13, 9, 3)	0.000000	17691.30
X( 13, 9, 4)	0.000000	17691.30
X( 13, 9, 5)	0.000000	17691.30
X( 13, 10, 1)	0.000000	359455.0
X( 13, 10, 2)	0.000000	359455.0
X( 13, 10, 3)	0.000000	359455.0
X( 13, 10, 4)	0.000000	359455.0
X( 13, 10, 5)	0.000000	359455.0
X( 13, 11, 1)	0.000000	190414.0
X( 13, 11, 2)	0.000000	190414.0
X( 13, 11, 3)	0.000000	190414.0
X( 13, 11, 4)	0.000000	190414.0
X( 13, 11, 5)	0.000000	190414.0
X( 13, 12, 1)	0.000000	227331.0
X( 13, 12, 2)	0.000000	227331.0
X( 13, 12, 3)	0.000000	227331.0
X( 13, 12, 4)	0.000000	227331.0
X( 13, 12, 5)	0.000000	227331.0
X( 13, 13, 1)	0.000000	0.000000
X( 13, 13, 2)	0.000000	0.000000
X( 13, 13, 3)	0.000000	0.000000
X( 13, 13, 4)	0.000000	0.000000
X( 13, 13, 5)	0.000000	0.000000
COST( 1, 1, 1)	0.000000	0.000000
COST( 1, 1, 2)	0.000000	0.000000
COST( 1, 1, 3)	0.000000	0.000000
COST( 1, 1, 4)	0.000000	0.000000
COST( 1, 1, 5)	0.000000	0.000000
COST( 1, 2, 1)	126295.0	0.000000
COST( 1, 2, 2)	126295.0	0.000000
COST( 1, 2, 3)	126295.0	0.000000
COST( 1, 2, 4)	126295.0	0.000000
COST( 1, 2, 5)	126295.0	0.000000
COST( 1, 3, 1)	281735.0	0.000000
COST( 1, 3, 2)	281735.0	0.000000
COST( 1, 3, 3)	281735.0	0.000000
COST( 1, 3, 4)	281735.0	0.000000
COST( 1, 3, 5)	281735.0	0.000000
COST( 1, 4, 1)	205958.0	0.000000
COST( 1, 4, 2)	205958.0	0.000000
COST( 1, 4, 3)	205958.0	0.000000
COST( 1, 4, 4)	205958.0	0.000000
COST( 1, 4, 5)	205958.0	0.000000
COST( 1, 5, 1)	124352.0	0.000000
COST( 1, 5, 2)	124352.0	0.000000
COST( 1, 5, 3)	124352.0	0.000000
COST( 1, 5, 4)	124352.0	0.000000
COST( 1, 5, 5)	124352.0	0.000000
COST( 1, 6, 1)	297279.0	0.000000
COST( 1, 6, 2)	297279.0	0.000000
COST( 1, 6, 3)	297279.0	0.000000



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COST ( 1, 6, 4)	297279.0	0.000000
COST ( 1, 6, 5)	297279.0	0.000000
COST ( 1, 7, 1)	62176.00	0.000000
COST ( 1, 7, 2)	62176.00	0.000000
COST ( 1, 7, 3)	62176.00	0.000000
COST ( 1, 7, 4)	62176.00	0.000000
COST ( 1, 7, 5)	62176.00	0.000000
COST ( 1, 8, 1)	312823.0	0.000000
COST ( 1, 8, 2)	312823.0	0.000000
COST ( 1, 8, 3)	312823.0	0.000000
COST ( 1, 8, 4)	312823.0	0.000000
COST ( 1, 8, 5)	312823.0	0.000000
COST ( 1, 9, 1)	293393.0	0.000000
COST ( 1, 9, 2)	293393.0	0.000000
COST ( 1, 9, 3)	293393.0	0.000000
COST ( 1, 9, 4)	293393.0	0.000000
COST ( 1, 9, 5)	293393.0	0.000000
COST ( 1, 10, 1)	248704.0	0.000000
COST ( 1, 10, 2)	248704.0	0.000000
COST ( 1, 10, 3)	248704.0	0.000000
COST ( 1, 10, 4)	248704.0	0.000000
COST ( 1, 10, 5)	248704.0	0.000000
COST ( 1, 11, 1)	106865.0	0.000000
COST ( 1, 11, 2)	106865.0	0.000000
COST ( 1, 11, 3)	106865.0	0.000000
COST ( 1, 11, 4)	106865.0	0.000000
COST ( 1, 11, 5)	106865.0	0.000000
COST ( 1, 12, 1)	69948.00	0.000000
COST ( 1, 12, 2)	69948.00	0.000000
COST ( 1, 12, 3)	69948.00	0.000000
COST ( 1, 12, 4)	69948.00	0.000000
COST ( 1, 12, 5)	69948.00	0.000000
COST ( 1, 13, 1)	281735.0	0.000000
COST ( 1, 13, 2)	281735.0	0.000000
COST ( 1, 13, 3)	281735.0	0.000000
COST ( 1, 13, 4)	281735.0	0.000000
COST ( 1, 13, 5)	281735.0	0.000000
COST ( 2, 1, 1)	126295.0	0.000000
COST ( 2, 1, 2)	126295.0	0.000000
COST ( 2, 1, 3)	126295.0	0.000000
COST ( 2, 1, 4)	126295.0	0.000000
COST ( 2, 1, 5)	126295.0	0.000000
COST ( 2, 2, 1)	0.000000	0.000000
COST ( 2, 2, 2)	0.000000	0.000000
COST ( 2, 2, 3)	0.000000	0.000000
COST ( 2, 2, 4)	0.000000	0.000000
COST ( 2, 2, 5)	0.000000	0.000000
COST ( 2, 3, 1)	242875.0	0.000000
COST ( 2, 3, 2)	242875.0	0.000000
COST ( 2, 3, 3)	242875.0	0.000000
COST ( 2, 3, 4)	242875.0	0.000000
COST ( 2, 3, 5)	242875.0	0.000000
COST ( 2, 4, 1)	161269.0	0.000000
COST ( 2, 4, 2)	161269.0	0.000000
COST ( 2, 4, 3)	161269.0	0.000000
COST ( 2, 4, 4)	161269.0	0.000000
COST ( 2, 4, 5)	161269.0	0.000000
COST ( 2, 5, 1)	213730.0	0.000000
COST ( 2, 5, 2)	213730.0	0.000000
COST ( 2, 5, 3)	213730.0	0.000000
COST ( 2, 5, 4)	213730.0	0.000000
COST ( 2, 5, 5)	213730.0	0.000000
COST ( 2, 6, 1)	386657.0	0.000000
COST ( 2, 6, 2)	386657.0	0.000000
COST ( 2, 6, 3)	386657.0	0.000000
COST ( 2, 6, 4)	386657.0	0.000000
COST ( 2, 6, 5)	386657.0	0.000000
COST ( 2, 7, 1)	143782.0	0.000000
COST ( 2, 7, 2)	143782.0	0.000000
COST ( 2, 7, 3)	143782.0	0.000000
COST ( 2, 7, 4)	143782.0	0.000000
COST ( 2, 7, 5)	143782.0	0.000000
COST ( 2, 8, 1)	406087.0	0.000000
COST ( 2, 8, 2)	406087.0	0.000000
COST ( 2, 8, 3)	406087.0	0.000000
COST ( 2, 8, 4)	406087.0	0.000000
COST ( 2, 8, 5)	406087.0	0.000000
COST ( 2, 9, 1)	373056.0	0.000000
COST ( 2, 9, 2)	373056.0	0.000000
COST ( 2, 9, 3)	373056.0	0.000000
COST ( 2, 9, 4)	373056.0	0.000000
COST ( 2, 9, 5)	373056.0	0.000000
COST ( 2, 10, 1)	341968.0	0.000000
COST ( 2, 10, 2)	341968.0	0.000000
COST ( 2, 10, 3)	341968.0	0.000000
COST ( 2, 10, 4)	341968.0	0.000000
COST ( 2, 10, 5)	341968.0	0.000000
COST ( 2, 11, 1)	200129.0	0.000000
COST ( 2, 11, 2)	200129.0	0.000000
COST ( 2, 11, 3)	200129.0	0.000000
COST ( 2, 11, 4)	200129.0	0.000000
COST ( 2, 11, 5)	200129.0	0.000000
COST ( 2, 12, 1)	149611.0	0.000000
COST ( 2, 12, 2)	149611.0	0.000000
COST ( 2, 12, 3)	149611.0	0.000000
COST ( 2, 12, 4)	149611.0	0.000000
COST ( 2, 12, 5)	149611.0	0.000000
COST ( 2, 13, 1)	374999.0	0.000000
COST ( 2, 13, 2)	374999.0	0.000000
COST ( 2, 13, 3)	374999.0	0.000000
COST ( 2, 13, 4)	374999.0	0.000000
COST ( 2, 13, 5)	374999.0	0.000000
COST ( 3, 1, 1)	281735.0	0.000000
COST ( 3, 1, 2)	281735.0	0.000000
COST ( 3, 1, 3)	281735.0	0.000000
COST ( 3, 1, 4)	281735.0	0.000000
COST ( 3, 1, 5)	281735.0	0.000000
COST ( 3, 2, 1)	242875.0	0.000000
COST ( 3, 2, 2)	242875.0	0.000000
COST ( 3, 2, 3)	242875.0	0.000000
COST ( 3, 2, 4)	242875.0	0.000000

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COST ( 3, 2, 5)	242875.0	0.000000
COST ( 3, 3, 1)	0.000000	0.000000
COST ( 3, 3, 2)	0.000000	0.000000
COST ( 3, 3, 3)	0.000000	0.000000
COST ( 3, 3, 4)	0.000000	0.000000
COST ( 3, 3, 5)	0.000000	0.000000
COST ( 3, 4, 1)	87435.00	0.000000
COST ( 3, 4, 2)	87435.00	0.000000
COST ( 3, 4, 3)	87435.00	0.000000
COST ( 3, 4, 4)	87435.00	0.000000
COST ( 3, 4, 5)	87435.00	0.000000
COST ( 3, 5, 1)	217616.0	0.000000
COST ( 3, 5, 2)	217616.0	0.000000
COST ( 3, 5, 3)	217616.0	0.000000
COST ( 3, 5, 4)	217616.0	0.000000
COST ( 3, 5, 5)	217616.0	0.000000
COST ( 3, 6, 1)	205958.0	0.000000
COST ( 3, 6, 2)	205958.0	0.000000
COST ( 3, 6, 3)	205958.0	0.000000
COST ( 3, 6, 4)	205958.0	0.000000
COST ( 3, 6, 5)	205958.0	0.000000
COST ( 3, 7, 1)	184585.0	0.000000
COST ( 3, 7, 2)	184585.0	0.000000
COST ( 3, 7, 3)	184585.0	0.000000
COST ( 3, 7, 4)	184585.0	0.000000
COST ( 3, 7, 5)	184585.0	0.000000
COST ( 3, 8, 1)	200129.0	0.000000
COST ( 3, 8, 2)	200129.0	0.000000
COST ( 3, 8, 3)	200129.0	0.000000
COST ( 3, 8, 4)	200129.0	0.000000
COST ( 3, 8, 5)	200129.0	0.000000
COST ( 3, 9, 1)	186528.0	0.000000
COST ( 3, 9, 2)	186528.0	0.000000
COST ( 3, 9, 3)	186528.0	0.000000
COST ( 3, 9, 4)	186528.0	0.000000
COST ( 3, 9, 5)	186528.0	0.000000
COST ( 3, 10, 1)	398315.0	0.000000
COST ( 3, 10, 2)	398315.0	0.000000
COST ( 3, 10, 3)	398315.0	0.000000
COST ( 3, 10, 4)	398315.0	0.000000
COST ( 3, 10, 5)	398315.0	0.000000
COST ( 3, 11, 1)	227331.0	0.000000
COST ( 3, 11, 2)	227331.0	0.000000
COST ( 3, 11, 3)	227331.0	0.000000
COST ( 3, 11, 4)	227331.0	0.000000
COST ( 3, 11, 5)	227331.0	0.000000
COST ( 3, 12, 1)	227331.0	0.000000
COST ( 3, 12, 2)	227331.0	0.000000
COST ( 3, 12, 3)	227331.0	0.000000
COST ( 3, 12, 4)	227331.0	0.000000
COST ( 3, 12, 5)	227331.0	0.000000
COST ( 3, 13, 1)	380828.0	0.000000
COST ( 3, 13, 2)	380828.0	0.000000
COST ( 3, 13, 3)	380828.0	0.000000
COST ( 3, 13, 4)	380828.0	0.000000
COST ( 3, 13, 5)	380828.0	0.000000
COST ( 4, 1, 1)	205958.0	0.000000
COST ( 4, 1, 2)	205958.0	0.000000
COST ( 4, 1, 3)	205958.0	0.000000
COST ( 4, 1, 4)	205958.0	0.000000
COST ( 4, 1, 5)	205958.0	0.000000
COST ( 4, 2, 1)	161269.0	0.000000
COST ( 4, 2, 2)	161269.0	0.000000
COST ( 4, 2, 3)	161269.0	0.000000
COST ( 4, 2, 4)	161269.0	0.000000
COST ( 4, 2, 5)	161269.0	0.000000
COST ( 4, 3, 1)	87435.00	0.000000
COST ( 4, 3, 2)	87435.00	0.000000
COST ( 4, 3, 3)	87435.00	0.000000
COST ( 4, 3, 4)	87435.00	0.000000
COST ( 4, 3, 5)	87435.00	0.000000
COST ( 4, 4, 1)	0.000000	0.000000
COST ( 4, 4, 2)	0.000000	0.000000
COST ( 4, 4, 3)	0.000000	0.000000
COST ( 4, 4, 4)	0.000000	0.000000
COST ( 4, 4, 5)	0.000000	0.000000
COST ( 4, 5, 1)	141839.0	0.000000
COST ( 4, 5, 2)	141839.0	0.000000
COST ( 4, 5, 3)	141839.0	0.000000
COST ( 4, 5, 4)	141839.0	0.000000
COST ( 4, 5, 5)	141839.0	0.000000
COST ( 4, 6, 1)	314766.0	0.000000
COST ( 4, 6, 2)	314766.0	0.000000
COST ( 4, 6, 3)	314766.0	0.000000
COST ( 4, 6, 4)	314766.0	0.000000
COST ( 4, 6, 5)	314766.0	0.000000
COST ( 4, 7, 1)	87435.00	0.000000
COST ( 4, 7, 2)	87435.00	0.000000
COST ( 4, 7, 3)	87435.00	0.000000
COST ( 4, 7, 4)	87435.00	0.000000
COST ( 4, 7, 5)	87435.00	0.000000
COST ( 4, 8, 1)	336139.0	0.000000
COST ( 4, 8, 2)	336139.0	0.000000
COST ( 4, 8, 3)	336139.0	0.000000
COST ( 4, 8, 4)	336139.0	0.000000
COST ( 4, 8, 5)	336139.0	0.000000
COST ( 4, 9, 1)	303108.0	0.000000
COST ( 4, 9, 2)	303108.0	0.000000
COST ( 4, 9, 3)	303108.0	0.000000
COST ( 4, 9, 4)	303108.0	0.000000
COST ( 4, 9, 5)	303108.0	0.000000
COST ( 4, 10, 1)	314766.0	0.000000
COST ( 4, 10, 2)	314766.0	0.000000
COST ( 4, 10, 3)	314766.0	0.000000
COST ( 4, 10, 4)	314766.0	0.000000
COST ( 4, 10, 5)	314766.0	0.000000
COST ( 4, 11, 1)	151554.0	0.000000
COST ( 4, 11, 2)	151554.0	0.000000
COST ( 4, 11, 3)	151554.0	0.000000
COST ( 4, 11, 4)	151554.0	0.000000
COST ( 4, 11, 5)	151554.0	0.000000

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COST ( 4, 12, 1)	151554.0	0.000000
COST ( 4, 12, 2)	151554.0	0.000000
COST ( 4, 12, 3)	151554.0	0.000000
COST ( 4, 12, 4)	151554.0	0.000000
COST ( 4, 12, 5)	151554.0	0.000000
COST ( 4, 13, 1)	303108.0	0.000000
COST ( 4, 13, 2)	303108.0	0.000000
COST ( 4, 13, 3)	303108.0	0.000000
COST ( 4, 13, 4)	303108.0	0.000000
COST ( 4, 13, 5)	303108.0	0.000000
COST ( 5, 1, 1)	124352.0	0.000000
COST ( 5, 1, 2)	124352.0	0.000000
COST ( 5, 1, 3)	124352.0	0.000000
COST ( 5, 1, 4)	124352.0	0.000000
COST ( 5, 1, 5)	124352.0	0.000000
COST ( 5, 2, 1)	213730.0	0.000000
COST ( 5, 2, 2)	213730.0	0.000000
COST ( 5, 2, 3)	213730.0	0.000000
COST ( 5, 2, 4)	213730.0	0.000000
COST ( 5, 2, 5)	213730.0	0.000000
COST ( 5, 3, 1)	217616.0	0.000000
COST ( 5, 3, 2)	217616.0	0.000000
COST ( 5, 3, 3)	217616.0	0.000000
COST ( 5, 3, 4)	217616.0	0.000000
COST ( 5, 3, 5)	217616.0	0.000000
COST ( 5, 4, 1)	141839.0	0.000000
COST ( 5, 4, 2)	141839.0	0.000000
COST ( 5, 4, 3)	141839.0	0.000000
COST ( 5, 4, 4)	141839.0	0.000000
COST ( 5, 4, 5)	141839.0	0.000000
COST ( 5, 5, 1)	0.000000	0.000000
COST ( 5, 5, 2)	0.000000	0.000000
COST ( 5, 5, 3)	0.000000	0.000000
COST ( 5, 5, 4)	0.000000	0.000000
COST ( 5, 5, 5)	0.000000	0.000000
COST ( 5, 6, 1)	198186.0	0.000000
COST ( 5, 6, 2)	198186.0	0.000000
COST ( 5, 6, 3)	198186.0	0.000000
COST ( 5, 6, 4)	198186.0	0.000000
COST ( 5, 6, 5)	198186.0	0.000000
COST ( 5, 7, 1)	104922.0	0.000000
COST ( 5, 7, 2)	104922.0	0.000000
COST ( 5, 7, 3)	104922.0	0.000000
COST ( 5, 7, 4)	104922.0	0.000000
COST ( 5, 7, 5)	104922.0	0.000000
COST ( 5, 8, 1)	217616.0	0.000000
COST ( 5, 8, 2)	217616.0	0.000000
COST ( 5, 8, 3)	217616.0	0.000000
COST ( 5, 8, 4)	217616.0	0.000000
COST ( 5, 8, 5)	217616.0	0.000000
COST ( 5, 9, 1)	184585.0	0.000000
COST ( 5, 9, 2)	184585.0	0.000000
COST ( 5, 9, 3)	184585.0	0.000000
COST ( 5, 9, 4)	184585.0	0.000000
COST ( 5, 9, 5)	184585.0	0.000000
COST ( 5, 10, 1)	176813.0	0.000000
COST ( 5, 10, 2)	176813.0	0.000000
COST ( 5, 10, 3)	176813.0	0.000000
COST ( 5, 10, 4)	176813.0	0.000000
COST ( 5, 10, 5)	176813.0	0.000000
COST ( 5, 11, 1)	8549.200	0.000000
COST ( 5, 11, 2)	8549.200	0.000000
COST ( 5, 11, 3)	8549.200	0.000000
COST ( 5, 11, 4)	8549.200	0.000000
COST ( 5, 11, 5)	8549.200	0.000000
COST ( 5, 12, 1)	66062.00	0.000000
COST ( 5, 12, 2)	66062.00	0.000000
COST ( 5, 12, 3)	66062.00	0.000000
COST ( 5, 12, 4)	66062.00	0.000000
COST ( 5, 12, 5)	66062.00	0.000000
COST ( 5, 13, 1)	186528.0	0.000000
COST ( 5, 13, 2)	186528.0	0.000000
COST ( 5, 13, 3)	186528.0	0.000000
COST ( 5, 13, 4)	186528.0	0.000000
COST ( 5, 13, 5)	186528.0	0.000000
COST ( 6, 1, 1)	297279.0	0.000000
COST ( 6, 1, 2)	297279.0	0.000000
COST ( 6, 1, 3)	297279.0	0.000000
COST ( 6, 1, 4)	297279.0	0.000000
COST ( 6, 1, 5)	297279.0	0.000000
COST ( 6, 2, 1)	386657.0	0.000000
COST ( 6, 2, 2)	386657.0	0.000000
COST ( 6, 2, 3)	386657.0	0.000000
COST ( 6, 2, 4)	386657.0	0.000000
COST ( 6, 2, 5)	386657.0	0.000000
COST ( 6, 3, 1)	205958.0	0.000000
COST ( 6, 3, 2)	205958.0	0.000000
COST ( 6, 3, 3)	205958.0	0.000000
COST ( 6, 3, 4)	205958.0	0.000000
COST ( 6, 3, 5)	205958.0	0.000000
COST ( 6, 4, 1)	314766.0	0.000000
COST ( 6, 4, 2)	314766.0	0.000000
COST ( 6, 4, 3)	314766.0	0.000000
COST ( 6, 4, 4)	314766.0	0.000000
COST ( 6, 4, 5)	314766.0	0.000000
COST ( 6, 5, 1)	198186.0	0.000000
COST ( 6, 5, 2)	198186.0	0.000000
COST ( 6, 5, 3)	198186.0	0.000000
COST ( 6, 5, 4)	198186.0	0.000000
COST ( 6, 5, 5)	198186.0	0.000000
COST ( 6, 6, 1)	0.000000	0.000000
COST ( 6, 6, 2)	0.000000	0.000000
COST ( 6, 6, 3)	0.000000	0.000000
COST ( 6, 6, 4)	0.000000	0.000000
COST ( 6, 6, 5)	0.000000	0.000000
COST ( 6, 7, 1)	270077.0	0.000000
COST ( 6, 7, 2)	270077.0	0.000000
COST ( 6, 7, 3)	270077.0	0.000000
COST ( 6, 7, 4)	270077.0	0.000000
COST ( 6, 7, 5)	270077.0	0.000000
COST ( 6, 8, 1)	19430.00	0.000000

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COST ( 6, 8, 2)	19430.00	0.000000	
COST ( 6, 8, 3)	19430.00	0.000000	
COST ( 6, 8, 4)	19430.00	0.000000	
COST ( 6, 8, 5)	19430.00	0.000000	
COST ( 6, 9, 1)	17487.00	0.000000	
COST ( 6, 9, 2)	17487.00	0.000000	
COST ( 6, 9, 3)	17487.00	0.000000	
COST ( 6, 9, 4)	17487.00	0.000000	
COST ( 6, 9, 5)	17487.00	0.000000	
COST ( 6, 10, 1)	373056.0	0.000000	
COST ( 6, 10, 2)	373056.0	0.000000	
COST ( 6, 10, 3)	373056.0	0.000000	
COST ( 6, 10, 4)	373056.0	0.000000	
COST ( 6, 10, 5)	373056.0	0.000000	
COST ( 6, 11, 1)	200129.0	0.000000	
COST ( 6, 11, 2)	200129.0	0.000000	
COST ( 6, 11, 3)	200129.0	0.000000	
COST ( 6, 11, 4)	200129.0	0.000000	
COST ( 6, 11, 5)	200129.0	0.000000	
COST ( 6, 12, 1)	238989.0	0.000000	
COST ( 6, 12, 2)	238989.0	0.000000	
COST ( 6, 12, 3)	238989.0	0.000000	
COST ( 6, 12, 4)	238989.0	0.000000	
COST ( 6, 12, 5)	238989.0	0.000000	
COST ( 6, 13, 1)	10880.80	0.000000	
COST ( 6, 13, 2)	10880.80	0.000000	
COST ( 6, 13, 3)	10880.80	0.000000	
COST ( 6, 13, 4)	10880.80	0.000000	
COST ( 6, 13, 5)	10880.80	0.000000	
COST ( 7, 1, 1)	62176.00	0.000000	
COST ( 7, 1, 2)	62176.00	0.000000	
COST ( 7, 1, 3)	62176.00	0.000000	
COST ( 7, 1, 4)	62176.00	0.000000	
COST ( 7, 1, 5)	62176.00	0.000000	
COST ( 7, 2, 1)	143782.0	0.000000	
COST ( 7, 2, 2)	143782.0	0.000000	
COST ( 7, 2, 3)	143782.0	0.000000	
COST ( 7, 2, 4)	143782.0	0.000000	
COST ( 7, 2, 5)	143782.0	0.000000	
COST ( 7, 3, 1)	184585.0	0.000000	
COST ( 7, 3, 2)	184585.0	0.000000	
COST ( 7, 3, 3)	184585.0	0.000000	
COST ( 7, 3, 4)	184585.0	0.000000	
COST ( 7, 3, 5)	184585.0	0.000000	
COST ( 7, 4, 1)	87435.00	0.000000	
COST ( 7, 4, 2)	87435.00	0.000000	
COST ( 7, 4, 3)	87435.00	0.000000	
COST ( 7, 4, 4)	87435.00	0.000000	
COST ( 7, 4, 5)	87435.00	0.000000	
COST ( 7, 5, 1)	104922.0	0.000000	
COST ( 7, 5, 2)	104922.0	0.000000	
COST ( 7, 5, 3)	104922.0	0.000000	
COST ( 7, 5, 4)	104922.0	0.000000	
COST ( 7, 5, 5)	104922.0	0.000000	
COST ( 7, 6, 1)	270077.0	0.000000	
COST ( 7, 6, 2)	270077.0	0.000000	
COST ( 7, 6, 3)	270077.0	0.000000	
COST ( 7, 6, 4)	270077.0	0.000000	
COST ( 7, 6, 5)	270077.0	0.000000	
COST ( 7, 7, 1)	0.000000	0.000000	
COST ( 7, 7, 2)	0.000000	0.000000	
COST ( 7, 7, 3)	0.000000	0.000000	
COST ( 7, 7, 4)	0.000000	0.000000	
COST ( 7, 7, 5)	0.000000	0.000000	
COST ( 7, 8, 1)	291450.0	0.000000	
COST ( 7, 8, 2)	291450.0	0.000000	
COST ( 7, 8, 3)	291450.0	0.000000	
COST ( 7, 8, 4)	291450.0	0.000000	
COST ( 7, 8, 5)	291450.0	0.000000	
COST ( 7, 9, 1)	258419.0	0.000000	
COST ( 7, 9, 2)	258419.0	0.000000	
COST ( 7, 9, 3)	258419.0	0.000000	
COST ( 7, 9, 4)	258419.0	0.000000	
COST ( 7, 9, 5)	258419.0	0.000000	
COST ( 7, 10, 1)	273963.0	0.000000	
COST ( 7, 10, 2)	273963.0	0.000000	
COST ( 7, 10, 3)	273963.0	0.000000	
COST ( 7, 10, 4)	273963.0	0.000000	
COST ( 7, 10, 5)	273963.0	0.000000	
COST ( 7, 11, 1)	106865.0	0.000000	
COST ( 7, 11, 2)	106865.0	0.000000	
COST ( 7, 11, 3)	106865.0	0.000000	
COST ( 7, 11, 4)	106865.0	0.000000	
COST ( 7, 11, 5)	106865.0	0.000000	
COST ( 7, 12, 1)	106865.0	0.000000	
COST ( 7, 12, 2)	106865.0	0.000000	
COST ( 7, 12, 3)	106865.0	0.000000	
COST ( 7, 12, 4)	106865.0	0.000000	
COST ( 7, 12, 5)	106865.0	0.000000	
COST ( 7, 13, 1)	260362.0	0.000000	
COST ( 7, 13, 2)	260362.0	0.000000	
COST ( 7, 13, 3)	260362.0	0.000000	
COST ( 7, 13, 4)	260362.0	0.000000	
COST ( 7, 13, 5)	260362.0	0.000000	
COST ( 8, 1, 1)	312823.0	0.000000	
COST ( 8, 1, 2)	312823.0	0.000000	
COST ( 8, 1, 3)	312823.0	0.000000	
COST ( 8, 1, 4)	312823.0	0.000000	
COST ( 8, 1, 5)	312823.0	0.000000	
COST ( 8, 2, 1)	406087.0	0.000000	
COST ( 8, 2, 2)	406087.0	0.000000	
COST ( 8, 2, 3)	406087.0	0.000000	
COST ( 8, 2, 4)	406087.0	0.000000	
COST ( 8, 2, 5)	406087.0	0.000000	
COST ( 8, 3, 1)	200129.0	0.000000	
COST ( 8, 3, 2)	200129.0	0.000000	
COST ( 8, 3, 3)	200129.0	0.000000	
COST ( 8, 3, 4)	200129.0	0.000000	
COST ( 8, 3, 5)	200129.0	0.000000	
COST ( 8, 4, 1)	336139.0	0.000000	
COST ( 8, 4, 2)	336139.0	0.000000	

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COST ( 8, 4, 3)	336139.0	0.000000
COST ( 8, 4, 4)	336139.0	0.000000
COST ( 8, 4, 5)	336139.0	0.000000
COST ( 8, 5, 1)	217616.0	0.000000
COST ( 8, 5, 2)	217616.0	0.000000
COST ( 8, 5, 3)	217616.0	0.000000
COST ( 8, 5, 4)	217616.0	0.000000
COST ( 8, 5, 5)	217616.0	0.000000
COST ( 8, 6, 1)	19430.00	0.000000
COST ( 8, 6, 2)	19430.00	0.000000
COST ( 8, 6, 3)	19430.00	0.000000
COST ( 8, 6, 4)	19430.00	0.000000
COST ( 8, 6, 5)	19430.00	0.000000
COST ( 8, 7, 1)	291450.0	0.000000
COST ( 8, 7, 2)	291450.0	0.000000
COST ( 8, 7, 3)	291450.0	0.000000
COST ( 8, 7, 4)	291450.0	0.000000
COST ( 8, 7, 5)	291450.0	0.000000
COST ( 8, 8, 1)	0.000000	0.000000
COST ( 8, 8, 2)	0.000000	0.000000
COST ( 8, 8, 3)	0.000000	0.000000
COST ( 8, 8, 4)	0.000000	0.000000
COST ( 8, 8, 5)	0.000000	0.000000
COST ( 8, 9, 1)	34974.00	0.000000
COST ( 8, 9, 2)	34974.00	0.000000
COST ( 8, 9, 3)	34974.00	0.000000
COST ( 8, 9, 4)	34974.00	0.000000
COST ( 8, 9, 5)	34974.00	0.000000
COST ( 8, 10, 1)	392486.0	0.000000
COST ( 8, 10, 2)	392486.0	0.000000
COST ( 8, 10, 3)	392486.0	0.000000
COST ( 8, 10, 4)	392486.0	0.000000
COST ( 8, 10, 5)	392486.0	0.000000
COST ( 8, 11, 1)	221502.0	0.000000
COST ( 8, 11, 2)	221502.0	0.000000
COST ( 8, 11, 3)	221502.0	0.000000
COST ( 8, 11, 4)	221502.0	0.000000
COST ( 8, 11, 5)	221502.0	0.000000
COST ( 8, 12, 1)	258419.0	0.000000
COST ( 8, 12, 2)	258419.0	0.000000
COST ( 8, 12, 3)	258419.0	0.000000
COST ( 8, 12, 4)	258419.0	0.000000
COST ( 8, 12, 5)	258419.0	0.000000
COST ( 8, 13, 1)	31088.00	0.000000
COST ( 8, 13, 2)	31088.00	0.000000
COST ( 8, 13, 3)	31088.00	0.000000
COST ( 8, 13, 4)	31088.00	0.000000
COST ( 8, 13, 5)	31088.00	0.000000
COST ( 9, 1, 1)	293393.0	0.000000
COST ( 9, 1, 2)	293393.0	0.000000
COST ( 9, 1, 3)	293393.0	0.000000
COST ( 9, 1, 4)	293393.0	0.000000
COST ( 9, 1, 5)	293393.0	0.000000
COST ( 9, 2, 1)	373056.0	0.000000
COST ( 9, 2, 2)	373056.0	0.000000
COST ( 9, 2, 3)	373056.0	0.000000
COST ( 9, 2, 4)	373056.0	0.000000
COST ( 9, 2, 5)	373056.0	0.000000
COST ( 9, 3, 1)	186528.0	0.000000
COST ( 9, 3, 2)	186528.0	0.000000
COST ( 9, 3, 3)	186528.0	0.000000
COST ( 9, 3, 4)	186528.0	0.000000
COST ( 9, 3, 5)	186528.0	0.000000
COST ( 9, 4, 1)	303108.0	0.000000
COST ( 9, 4, 2)	303108.0	0.000000
COST ( 9, 4, 3)	303108.0	0.000000
COST ( 9, 4, 4)	303108.0	0.000000
COST ( 9, 4, 5)	303108.0	0.000000
COST ( 9, 5, 1)	184585.0	0.000000
COST ( 9, 5, 2)	184585.0	0.000000
COST ( 9, 5, 3)	184585.0	0.000000
COST ( 9, 5, 4)	184585.0	0.000000
COST ( 9, 5, 5)	184585.0	0.000000
COST ( 9, 6, 1)	17487.00	0.000000
COST ( 9, 6, 2)	17487.00	0.000000
COST ( 9, 6, 3)	17487.00	0.000000
COST ( 9, 6, 4)	17487.00	0.000000
COST ( 9, 6, 5)	17487.00	0.000000
COST ( 9, 7, 1)	258419.0	0.000000
COST ( 9, 7, 2)	258419.0	0.000000
COST ( 9, 7, 3)	258419.0	0.000000
COST ( 9, 7, 4)	258419.0	0.000000
COST ( 9, 7, 5)	258419.0	0.000000
COST ( 9, 8, 1)	34974.00	0.000000
COST ( 9, 8, 2)	34974.00	0.000000
COST ( 9, 8, 3)	34974.00	0.000000
COST ( 9, 8, 4)	34974.00	0.000000
COST ( 9, 8, 5)	34974.00	0.000000
COST ( 9, 9, 1)	0.000000	0.000000
COST ( 9, 9, 2)	0.000000	0.000000
COST ( 9, 9, 3)	0.000000	0.000000
COST ( 9, 9, 4)	0.000000	0.000000
COST ( 9, 9, 5)	0.000000	0.000000
COST ( 9, 10, 1)	361398.0	0.000000
COST ( 9, 10, 2)	361398.0	0.000000
COST ( 9, 10, 3)	361398.0	0.000000
COST ( 9, 10, 4)	361398.0	0.000000
COST ( 9, 10, 5)	361398.0	0.000000
COST ( 9, 11, 1)	188471.0	0.000000
COST ( 9, 11, 2)	188471.0	0.000000
COST ( 9, 11, 3)	188471.0	0.000000
COST ( 9, 11, 4)	188471.0	0.000000
COST ( 9, 11, 5)	188471.0	0.000000
COST ( 9, 12, 1)	227331.0	0.000000
COST ( 9, 12, 2)	227331.0	0.000000
COST ( 9, 12, 3)	227331.0	0.000000
COST ( 9, 12, 4)	227331.0	0.000000
COST ( 9, 12, 5)	227331.0	0.000000
COST ( 9, 13, 1)	17681.30	0.000000
COST ( 9, 13, 2)	17681.30	0.000000
COST ( 9, 13, 3)	17681.30	0.000000

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COST( 9, 13, 4)	17681.30	0.000000
COST( 9, 13, 5)	17681.30	0.000000
COST( 10, 1, 1)	248704.0	0.000000
COST( 10, 1, 2)	248704.0	0.000000
COST( 10, 1, 3)	248704.0	0.000000
COST( 10, 1, 4)	248704.0	0.000000
COST( 10, 1, 5)	248704.0	0.000000
COST( 10, 2, 1)	341968.0	0.000000
COST( 10, 2, 2)	341968.0	0.000000
COST( 10, 2, 3)	341968.0	0.000000
COST( 10, 2, 4)	341968.0	0.000000
COST( 10, 2, 5)	341968.0	0.000000
COST( 10, 3, 1)	398315.0	0.000000
COST( 10, 3, 2)	398315.0	0.000000
COST( 10, 3, 3)	398315.0	0.000000
COST( 10, 3, 4)	398315.0	0.000000
COST( 10, 3, 5)	398315.0	0.000000
COST( 10, 4, 1)	314766.0	0.000000
COST( 10, 4, 2)	314766.0	0.000000
COST( 10, 4, 3)	314766.0	0.000000
COST( 10, 4, 4)	314766.0	0.000000
COST( 10, 4, 5)	314766.0	0.000000
COST( 10, 5, 1)	176813.0	0.000000
COST( 10, 5, 2)	176813.0	0.000000
COST( 10, 5, 3)	176813.0	0.000000
COST( 10, 5, 4)	176813.0	0.000000
COST( 10, 5, 5)	176813.0	0.000000
COST( 10, 6, 1)	373056.0	0.000000
COST( 10, 6, 2)	373056.0	0.000000
COST( 10, 6, 3)	373056.0	0.000000
COST( 10, 6, 4)	373056.0	0.000000
COST( 10, 6, 5)	373056.0	0.000000
COST( 10, 7, 1)	273963.0	0.000000
COST( 10, 7, 2)	273963.0	0.000000
COST( 10, 7, 3)	273963.0	0.000000
COST( 10, 7, 4)	273963.0	0.000000
COST( 10, 7, 5)	273963.0	0.000000
COST( 10, 8, 1)	392486.0	0.000000
COST( 10, 8, 2)	392486.0	0.000000
COST( 10, 8, 3)	392486.0	0.000000
COST( 10, 8, 4)	392486.0	0.000000
COST( 10, 8, 5)	392486.0	0.000000
COST( 10, 9, 1)	361398.0	0.000000
COST( 10, 9, 2)	361398.0	0.000000
COST( 10, 9, 3)	361398.0	0.000000
COST( 10, 9, 4)	361398.0	0.000000
COST( 10, 9, 5)	361398.0	0.000000
COST( 10, 10, 1)	0.000000	0.000000
COST( 10, 10, 2)	0.000000	0.000000
COST( 10, 10, 3)	0.000000	0.000000
COST( 10, 10, 4)	0.000000	0.000000
COST( 10, 10, 5)	0.000000	0.000000
COST( 10, 11, 1)	165155.0	0.000000
COST( 10, 11, 2)	165155.0	0.000000
COST( 10, 11, 3)	165155.0	0.000000
COST( 10, 11, 4)	165155.0	0.000000
COST( 10, 11, 5)	165155.0	0.000000
COST( 10, 12, 1)	196243.0	0.000000
COST( 10, 12, 2)	196243.0	0.000000
COST( 10, 12, 3)	196243.0	0.000000
COST( 10, 12, 4)	196243.0	0.000000
COST( 10, 12, 5)	196243.0	0.000000
COST( 10, 13, 1)	359455.0	0.000000
COST( 10, 13, 2)	359455.0	0.000000
COST( 10, 13, 3)	359455.0	0.000000
COST( 10, 13, 4)	359455.0	0.000000
COST( 10, 13, 5)	359455.0	0.000000
COST( 11, 1, 1)	106865.0	0.000000
COST( 11, 1, 2)	106865.0	0.000000
COST( 11, 1, 3)	106865.0	0.000000
COST( 11, 1, 4)	106865.0	0.000000
COST( 11, 1, 5)	106865.0	0.000000
COST( 11, 2, 1)	200129.0	0.000000
COST( 11, 2, 2)	200129.0	0.000000
COST( 11, 2, 3)	200129.0	0.000000
COST( 11, 2, 4)	200129.0	0.000000
COST( 11, 2, 5)	200129.0	0.000000
COST( 11, 3, 1)	227331.0	0.000000
COST( 11, 3, 2)	227331.0	0.000000
COST( 11, 3, 3)	227331.0	0.000000
COST( 11, 3, 4)	227331.0	0.000000
COST( 11, 3, 5)	227331.0	0.000000
COST( 11, 4, 1)	151554.0	0.000000
COST( 11, 4, 2)	151554.0	0.000000
COST( 11, 4, 3)	151554.0	0.000000
COST( 11, 4, 4)	151554.0	0.000000
COST( 11, 4, 5)	151554.0	0.000000
COST( 11, 5, 1)	8549.200	0.000000
COST( 11, 5, 2)	8549.200	0.000000
COST( 11, 5, 3)	8549.200	0.000000
COST( 11, 5, 4)	8549.200	0.000000
COST( 11, 5, 5)	8549.200	0.000000
COST( 11, 6, 1)	200129.0	0.000000
COST( 11, 6, 2)	200129.0	0.000000
COST( 11, 6, 3)	200129.0	0.000000
COST( 11, 6, 4)	200129.0	0.000000
COST( 11, 6, 5)	200129.0	0.000000
COST( 11, 7, 1)	106865.0	0.000000
COST( 11, 7, 2)	106865.0	0.000000
COST( 11, 7, 3)	106865.0	0.000000
COST( 11, 7, 4)	106865.0	0.000000
COST( 11, 7, 5)	106865.0	0.000000
COST( 11, 8, 1)	221502.0	0.000000
COST( 11, 8, 2)	221502.0	0.000000
COST( 11, 8, 3)	221502.0	0.000000
COST( 11, 8, 4)	221502.0	0.000000
COST( 11, 8, 5)	221502.0	0.000000
COST( 11, 9, 1)	188471.0	0.000000
COST( 11, 9, 2)	188471.0	0.000000
COST( 11, 9, 3)	188471.0	0.000000
COST( 11, 9, 4)	188471.0	0.000000

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COST ( 11, 9, 5)	188471.0	0.000000
COST ( 11, 10, 1)	165155.0	0.000000
COST ( 11, 10, 2)	165155.0	0.000000
COST ( 11, 10, 3)	165155.0	0.000000
COST ( 11, 10, 4)	165155.0	0.000000
COST ( 11, 10, 5)	165155.0	0.000000
COST ( 11, 11, 1)	0.000000	0.000000
COST ( 11, 11, 2)	0.000000	0.000000
COST ( 11, 11, 3)	0.000000	0.000000
COST ( 11, 11, 4)	0.000000	0.000000
COST ( 11, 11, 5)	0.000000	0.000000
COST ( 11, 12, 1)	52461.00	0.000000
COST ( 11, 12, 2)	52461.00	0.000000
COST ( 11, 12, 3)	52461.00	0.000000
COST ( 11, 12, 4)	52461.00	0.000000
COST ( 11, 12, 5)	52461.00	0.000000
COST ( 11, 13, 1)	190414.0	0.000000
COST ( 11, 13, 2)	190414.0	0.000000
COST ( 11, 13, 3)	190414.0	0.000000
COST ( 11, 13, 4)	190414.0	0.000000
COST ( 11, 13, 5)	190414.0	0.000000
COST ( 12, 1, 1)	69948.00	0.000000
COST ( 12, 1, 2)	69948.00	0.000000
COST ( 12, 1, 3)	69948.00	0.000000
COST ( 12, 1, 4)	69948.00	0.000000
COST ( 12, 1, 5)	69948.00	0.000000
COST ( 12, 2, 1)	149611.0	0.000000
COST ( 12, 2, 2)	149611.0	0.000000
COST ( 12, 2, 3)	149611.0	0.000000
COST ( 12, 2, 4)	149611.0	0.000000
COST ( 12, 2, 5)	149611.0	0.000000
COST ( 12, 3, 1)	227331.0	0.000000
COST ( 12, 3, 2)	227331.0	0.000000
COST ( 12, 3, 3)	227331.0	0.000000
COST ( 12, 3, 4)	227331.0	0.000000
COST ( 12, 3, 5)	227331.0	0.000000
COST ( 12, 4, 1)	151554.0	0.000000
COST ( 12, 4, 2)	151554.0	0.000000
COST ( 12, 4, 3)	151554.0	0.000000
COST ( 12, 4, 4)	151554.0	0.000000
COST ( 12, 4, 5)	151554.0	0.000000
COST ( 12, 5, 1)	66062.00	0.000000
COST ( 12, 5, 2)	66062.00	0.000000
COST ( 12, 5, 3)	66062.00	0.000000
COST ( 12, 5, 4)	66062.00	0.000000
COST ( 12, 5, 5)	66062.00	0.000000
COST ( 12, 6, 1)	238989.0	0.000000
COST ( 12, 6, 2)	238989.0	0.000000
COST ( 12, 6, 3)	238989.0	0.000000
COST ( 12, 6, 4)	238989.0	0.000000
COST ( 12, 6, 5)	238989.0	0.000000
COST ( 12, 7, 1)	106865.0	0.000000
COST ( 12, 7, 2)	106865.0	0.000000
COST ( 12, 7, 3)	106865.0	0.000000
COST ( 12, 7, 4)	106865.0	0.000000
COST ( 12, 7, 5)	106865.0	0.000000
COST ( 12, 8, 1)	258419.0	0.000000
COST ( 12, 8, 2)	258419.0	0.000000
COST ( 12, 8, 3)	258419.0	0.000000
COST ( 12, 8, 4)	258419.0	0.000000
COST ( 12, 8, 5)	258419.0	0.000000
COST ( 12, 9, 1)	227331.0	0.000000
COST ( 12, 9, 2)	227331.0	0.000000
COST ( 12, 9, 3)	227331.0	0.000000
COST ( 12, 9, 4)	227331.0	0.000000
COST ( 12, 9, 5)	227331.0	0.000000
COST ( 12, 10, 1)	196243.0	0.000000
COST ( 12, 10, 2)	196243.0	0.000000
COST ( 12, 10, 3)	196243.0	0.000000
COST ( 12, 10, 4)	196243.0	0.000000
COST ( 12, 10, 5)	196243.0	0.000000
COST ( 12, 11, 1)	52461.00	0.000000
COST ( 12, 11, 2)	52461.00	0.000000
COST ( 12, 11, 3)	52461.00	0.000000
COST ( 12, 11, 4)	52461.00	0.000000
COST ( 12, 11, 5)	52461.00	0.000000
COST ( 12, 12, 1)	0.000000	0.000000
COST ( 12, 12, 2)	0.000000	0.000000
COST ( 12, 12, 3)	0.000000	0.000000
COST ( 12, 12, 4)	0.000000	0.000000
COST ( 12, 12, 5)	0.000000	0.000000
COST ( 12, 13, 1)	227331.0	0.000000
COST ( 12, 13, 2)	227331.0	0.000000
COST ( 12, 13, 3)	227331.0	0.000000
COST ( 12, 13, 4)	227331.0	0.000000
COST ( 12, 13, 5)	227331.0	0.000000
COST ( 13, 1, 1)	281735.0	0.000000
COST ( 13, 1, 2)	281735.0	0.000000
COST ( 13, 1, 3)	281735.0	0.000000
COST ( 13, 1, 4)	281735.0	0.000000
COST ( 13, 1, 5)	281735.0	0.000000
COST ( 13, 2, 1)	374999.0	0.000000
COST ( 13, 2, 2)	374999.0	0.000000
COST ( 13, 2, 3)	374999.0	0.000000
COST ( 13, 2, 4)	374999.0	0.000000
COST ( 13, 2, 5)	374999.0	0.000000
COST ( 13, 3, 1)	380828.0	0.000000
COST ( 13, 3, 2)	380828.0	0.000000
COST ( 13, 3, 3)	380828.0	0.000000
COST ( 13, 3, 4)	380828.0	0.000000
COST ( 13, 3, 5)	380828.0	0.000000
COST ( 13, 4, 1)	303108.0	0.000000
COST ( 13, 4, 2)	303108.0	0.000000
COST ( 13, 4, 3)	303108.0	0.000000
COST ( 13, 4, 4)	303108.0	0.000000
COST ( 13, 4, 5)	303108.0	0.000000
COST ( 13, 5, 1)	186528.0	0.000000
COST ( 13, 5, 2)	186528.0	0.000000
COST ( 13, 5, 3)	186528.0	0.000000
COST ( 13, 5, 4)	186528.0	0.000000
COST ( 13, 5, 5)	186528.0	0.000000

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COST ( 13, 6, 1)	10880.80	0.000000
COST ( 13, 6, 2)	10880.80	0.000000
COST ( 13, 6, 3)	10880.80	0.000000
COST ( 13, 6, 4)	10880.80	0.000000
COST ( 13, 6, 5)	10880.80	0.000000
COST ( 13, 7, 1)	260362.0	0.000000
COST ( 13, 7, 2)	260362.0	0.000000
COST ( 13, 7, 3)	260362.0	0.000000
COST ( 13, 7, 4)	260362.0	0.000000
COST ( 13, 7, 5)	260362.0	0.000000
COST ( 13, 8, 1)	31088.00	0.000000
COST ( 13, 8, 2)	31088.00	0.000000
COST ( 13, 8, 3)	31088.00	0.000000
COST ( 13, 8, 4)	31088.00	0.000000
COST ( 13, 8, 5)	31088.00	0.000000
COST ( 13, 9, 1)	17681.30	0.000000
COST ( 13, 9, 2)	17681.30	0.000000
COST ( 13, 9, 3)	17681.30	0.000000
COST ( 13, 9, 4)	17681.30	0.000000
COST ( 13, 9, 5)	17681.30	0.000000
COST ( 13, 10, 1)	359455.0	0.000000
COST ( 13, 10, 2)	359455.0	0.000000
COST ( 13, 10, 3)	359455.0	0.000000
COST ( 13, 10, 4)	359455.0	0.000000
COST ( 13, 10, 5)	359455.0	0.000000
COST ( 13, 11, 1)	190414.0	0.000000
COST ( 13, 11, 2)	190414.0	0.000000
COST ( 13, 11, 3)	190414.0	0.000000
COST ( 13, 11, 4)	190414.0	0.000000
COST ( 13, 11, 5)	190414.0	0.000000
COST ( 13, 12, 1)	227331.0	0.000000
COST ( 13, 12, 2)	227331.0	0.000000
COST ( 13, 12, 3)	227331.0	0.000000
COST ( 13, 12, 4)	227331.0	0.000000
COST ( 13, 12, 5)	227331.0	0.000000
COST ( 13, 13, 1)	0.000000	0.000000
COST ( 13, 13, 2)	0.000000	0.000000
COST ( 13, 13, 3)	0.000000	0.000000
COST ( 13, 13, 4)	0.000000	0.000000
COST ( 13, 13, 5)	0.000000	0.000000
S ( 1, 1)	0.000000	0.000000
S ( 1, 2)	93.00000	0.000000
S ( 1, 3)	158.0000	0.000000
S ( 1, 4)	114.0000	0.000000
S ( 1, 5)	90.00000	0.000000
S ( 1, 6)	171.0000	0.000000
S ( 1, 7)	54.00000	0.000000
S ( 1, 8)	194.0000	0.000000
S ( 1, 9)	168.0000	0.000000
S ( 1, 10)	201.0000	0.000000
S ( 1, 11)	92.00000	0.000000
S ( 1, 12)	66.00000	0.000000
S ( 1, 13)	157.0000	0.000000
S ( 2, 1)	93.00000	0.000000
S ( 2, 2)	0.000000	0.000000
S ( 2, 3)	130.0000	0.000000
S ( 2, 4)	130.0000	0.000000
S ( 2, 5)	140.0000	0.000000
S ( 2, 6)	223.0000	0.000000
S ( 2, 7)	117.0000	0.000000
S ( 2, 8)	249.0000	0.000000
S ( 2, 9)	222.0000	0.000000
S ( 2, 10)	253.0000	0.000000
S ( 2, 11)	145.0000	0.000000
S ( 2, 12)	109.0000	0.000000
S ( 2, 13)	210.0000	0.000000
S ( 3, 1)	158.0000	0.000000
S ( 3, 2)	180.0000	0.000000
S ( 3, 3)	0.000000	0.000000
S ( 3, 4)	70.00000	0.000000
S ( 3, 5)	114.0000	0.000000
S ( 3, 6)	186.0000	0.000000
S ( 3, 7)	160.0000	0.000000
S ( 3, 8)	181.0000	0.000000
S ( 3, 9)	181.0000	0.000000
S ( 3, 10)	259.0000	0.000000
S ( 3, 11)	164.0000	0.000000
S ( 3, 12)	121.0000	0.000000
S ( 3, 13)	187.0000	0.000000
S ( 4, 1)	114.0000	0.000000
S ( 4, 2)	130.0000	0.000000
S ( 4, 3)	70.00000	0.000000
S ( 4, 4)	0.000000	0.000000
S ( 4, 5)	68.00000	0.000000
S ( 4, 6)	155.0000	0.000000
S ( 4, 7)	74.00000	0.000000
S ( 4, 8)	178.0000	0.000000
S ( 4, 9)	153.0000	0.000000
S ( 4, 10)	211.0000	0.000000
S ( 4, 11)	78.00000	0.000000
S ( 4, 12)	72.00000	0.000000
S ( 4, 13)	141.0000	0.000000
S ( 5, 1)	90.00000	0.000000
S ( 5, 2)	140.0000	0.000000
S ( 5, 3)	114.0000	0.000000
S ( 5, 4)	68.00000	0.000000
S ( 5, 5)	0.000000	0.000000
S ( 5, 6)	107.0000	0.000000
S ( 5, 7)	64.00000	0.000000
S ( 5, 8)	130.0000	0.000000
S ( 5, 9)	107.0000	0.000000
S ( 5, 10)	155.0000	0.000000
S ( 5, 11)	10.00000	0.000000
S ( 5, 12)	55.00000	0.000000
S ( 5, 13)	89.00000	0.000000
S ( 6, 1)	171.0000	0.000000
S ( 6, 2)	223.0000	0.000000
S ( 6, 3)	166.0000	0.000000
S ( 6, 4)	155.0000	0.000000
S ( 6, 5)	107.0000	0.000000
S ( 6, 6)	0.000000	0.000000



Solution Report - REVISI-Rumus Demand_Pengolahan Data LINGO			
S( 6, 7)	147.0000	0.000000	
S( 6, 8)	22.00000	0.000000	
S( 6, 9)	21.00000	0.000000	
S( 6, 10)	249.0000	0.000000	
S( 6, 11)	116.0000	0.000000	
S( 6, 12)	133.0000	0.000000	
S( 6, 13)	15.00000	0.000000	
S( 7, 1)	54.00000	0.000000	
S( 7, 2)	117.0000	0.000000	
S( 7, 3)	160.0000	0.000000	
S( 7, 4)	74.00000	0.000000	
S( 7, 5)	64.00000	0.000000	
S( 7, 6)	147.0000	0.000000	
S( 7, 7)	0.000000	0.000000	
S( 7, 8)	171.0000	0.000000	
S( 7, 9)	146.0000	0.000000	
S( 7, 10)	207.0000	0.000000	
S( 7, 11)	71.00000	0.000000	
S( 7, 12)	71.00000	0.000000	
S( 7, 13)	134.0000	0.000000	
S( 8, 1)	194.0000	0.000000	
S( 8, 2)	249.0000	0.000000	
S( 8, 3)	181.0000	0.000000	
S( 8, 4)	178.0000	0.000000	
S( 8, 5)	130.0000	0.000000	
S( 8, 6)	22.00000	0.000000	
S( 8, 7)	171.0000	0.000000	
S( 8, 8)	0.000000	0.000000	
S( 8, 9)	40.00000	0.000000	
S( 8, 10)	271.0000	0.000000	
S( 8, 11)	140.0000	0.000000	
S( 8, 12)	157.0000	0.000000	
S( 8, 13)	38.00000	0.000000	
S( 9, 1)	165.0000	0.000000	
S( 9, 2)	222.0000	0.000000	
S( 9, 3)	181.0000	0.000000	
S( 9, 4)	153.0000	0.000000	
S( 9, 5)	107.0000	0.000000	
S( 9, 6)	21.00000	0.000000	
S( 9, 7)	146.0000	0.000000	
S( 9, 8)	40.00000	0.000000	
S( 9, 9)	0.000000	0.000000	
S( 9, 10)	244.0000	0.000000	
S( 9, 11)	112.0000	0.000000	
S( 9, 12)	130.0000	0.000000	
S( 9, 13)	24.00000	0.000000	
S( 10, 1)	201.0000	0.000000	
S( 10, 2)	253.0000	0.000000	
S( 10, 3)	259.0000	0.000000	
S( 10, 4)	211.0000	0.000000	
S( 10, 5)	155.0000	0.000000	
S( 10, 6)	249.0000	0.000000	
S( 10, 7)	207.0000	0.000000	
S( 10, 8)	271.0000	0.000000	
S( 10, 9)	244.0000	0.000000	
S( 10, 10)	0.000000	0.000000	
S( 10, 11)	132.0000	0.000000	
S( 10, 12)	158.0000	0.000000	
S( 10, 13)	227.0000	0.000000	
S( 11, 1)	92.00000	0.000000	
S( 11, 2)	145.0000	0.000000	
S( 11, 3)	164.0000	0.000000	
S( 11, 4)	78.00000	0.000000	
S( 11, 5)	10.00000	0.000000	
S( 11, 6)	116.0000	0.000000	
S( 11, 7)	71.00000	0.000000	
S( 11, 8)	140.0000	0.000000	
S( 11, 9)	112.0000	0.000000	
S( 11, 10)	132.0000	0.000000	
S( 11, 11)	0.000000	0.000000	
S( 11, 12)	60.00000	0.000000	
S( 11, 13)	104.0000	0.000000	
S( 12, 1)	66.00000	0.000000	
S( 12, 2)	109.0000	0.000000	
S( 12, 3)	121.0000	0.000000	
S( 12, 4)	72.00000	0.000000	
S( 12, 5)	55.00000	0.000000	
S( 12, 6)	133.0000	0.000000	
S( 12, 7)	71.00000	0.000000	
S( 12, 8)	157.0000	0.000000	
S( 12, 9)	130.0000	0.000000	
S( 12, 10)	158.0000	0.000000	
S( 12, 11)	60.00000	0.000000	
S( 12, 12)	0.000000	0.000000	
S( 12, 13)	134.0000	0.000000	
S( 13, 1)	157.0000	0.000000	
S( 13, 2)	210.0000	0.000000	
S( 13, 3)	187.0000	0.000000	
S( 13, 4)	141.0000	0.000000	
S( 13, 5)	89.00000	0.000000	
S( 13, 6)	15.00000	0.000000	
S( 13, 7)	134.0000	0.000000	
S( 13, 8)	38.00000	0.000000	
S( 13, 9)	24.00000	0.000000	
S( 13, 10)	227.0000	0.000000	
S( 13, 11)	104.0000	0.000000	
S( 13, 12)	134.0000	0.000000	
S( 13, 13)	0.000000	0.000000	
DS( 1, 1)	0.000000	0.000000	
DS( 1, 2)	65.00000	0.000000	
DS( 1, 3)	145.0000	0.000000	
DS( 1, 4)	106.0000	0.000000	
DS( 1, 5)	64.00000	0.000000	
DS( 1, 6)	153.0000	0.000000	
DS( 1, 7)	32.00000	0.000000	
DS( 1, 8)	161.0000	0.000000	
DS( 1, 9)	151.0000	0.000000	
DS( 1, 10)	128.0000	0.000000	
DS( 1, 11)	55.00000	0.000000	
DS( 1, 12)	36.00000	0.000000	
DS( 1, 13)	145.0000	0.000000	

Solution Report - REVISI-Rumus Demand_Pengolahan Data LINGO		
DS ( 2, 1)	65.00000	0.000000
DS ( 2, 2)	0.000000	0.000000
DS ( 2, 3)	125.0000	0.000000
DS ( 2, 4)	83.00000	0.000000
DS ( 2, 5)	110.0000	0.000000
DS ( 2, 6)	159.0000	0.000000
DS ( 2, 7)	74.00000	0.000000
DS ( 2, 8)	209.0000	0.000000
DS ( 2, 9)	192.0000	0.000000
DS ( 2, 10)	176.0000	0.000000
DS ( 2, 11)	103.0000	0.000000
DS ( 2, 12)	77.00000	0.000000
DS ( 2, 13)	193.0000	0.000000
DS ( 3, 1)	145.0000	0.000000
DS ( 3, 2)	125.0000	0.000000
DS ( 3, 3)	0.000000	0.000000
DS ( 3, 4)	45.00000	0.000000
DS ( 3, 5)	112.0000	0.000000
DS ( 3, 6)	106.0000	0.000000
DS ( 3, 7)	95.00000	0.000000
DS ( 3, 8)	103.0000	0.000000
DS ( 3, 9)	96.00000	0.000000
DS ( 3, 10)	205.0000	0.000000
DS ( 3, 11)	117.0000	0.000000
DS ( 3, 12)	117.0000	0.000000
DS ( 3, 13)	196.0000	0.000000
DS ( 4, 1)	106.0000	0.000000
DS ( 4, 2)	83.00000	0.000000
DS ( 4, 3)	45.00000	0.000000
DS ( 4, 4)	0.000000	0.000000
DS ( 4, 5)	73.00000	0.000000
DS ( 4, 6)	162.0000	0.000000
DS ( 4, 7)	45.00000	0.000000
DS ( 4, 8)	173.0000	0.000000
DS ( 4, 9)	156.0000	0.000000
DS ( 4, 10)	162.0000	0.000000
DS ( 4, 11)	78.00000	0.000000
DS ( 4, 12)	78.00000	0.000000
DS ( 4, 13)	156.0000	0.000000
DS ( 5, 1)	64.00000	0.000000
DS ( 5, 2)	110.0000	0.000000
DS ( 5, 3)	112.0000	0.000000
DS ( 5, 4)	73.00000	0.000000
DS ( 5, 5)	0.000000	0.000000
DS ( 5, 6)	102.0000	0.000000
DS ( 5, 7)	54.00000	0.000000
DS ( 5, 8)	112.0000	0.000000
DS ( 5, 9)	95.00000	0.000000
DS ( 5, 10)	91.00000	0.000000
DS ( 5, 11)	4.400000	0.000000
DS ( 5, 12)	34.00000	0.000000
DS ( 5, 13)	96.00000	0.000000
DS ( 6, 1)	153.0000	0.000000
DS ( 6, 2)	199.0000	0.000000
DS ( 6, 3)	106.0000	0.000000
DS ( 6, 4)	162.0000	0.000000
DS ( 6, 5)	102.0000	0.000000
DS ( 6, 6)	0.000000	0.000000
DS ( 6, 7)	139.0000	0.000000
DS ( 6, 8)	10.00000	0.000000
DS ( 6, 9)	9.000000	0.000000
DS ( 6, 10)	192.0000	0.000000
DS ( 6, 11)	103.0000	0.000000
DS ( 6, 12)	123.0000	0.000000
DS ( 6, 13)	5.600000	0.000000
DS ( 7, 1)	32.00000	0.000000
DS ( 7, 2)	74.00000	0.000000
DS ( 7, 3)	95.00000	0.000000
DS ( 7, 4)	45.00000	0.000000
DS ( 7, 5)	94.00000	0.000000
DS ( 7, 6)	139.0000	0.000000
DS ( 7, 7)	0.000000	0.000000
DS ( 7, 8)	150.0000	0.000000
DS ( 7, 9)	133.0000	0.000000
DS ( 7, 10)	141.0000	0.000000
DS ( 7, 11)	55.00000	0.000000
DS ( 7, 12)	55.00000	0.000000
DS ( 7, 13)	134.0000	0.000000
DS ( 8, 1)	161.0000	0.000000
DS ( 8, 2)	209.0000	0.000000
DS ( 8, 3)	103.0000	0.000000
DS ( 8, 4)	173.0000	0.000000
DS ( 8, 5)	112.0000	0.000000
DS ( 8, 6)	10.00000	0.000000
DS ( 8, 7)	150.0000	0.000000
DS ( 8, 8)	0.000000	0.000000
DS ( 8, 9)	18.00000	0.000000
DS ( 8, 10)	202.0000	0.000000
DS ( 8, 11)	114.0000	0.000000
DS ( 8, 12)	133.0000	0.000000
DS ( 8, 13)	16.00000	0.000000
DS ( 9, 1)	151.0000	0.000000
DS ( 9, 2)	192.0000	0.000000
DS ( 9, 3)	96.00000	0.000000
DS ( 9, 4)	156.0000	0.000000
DS ( 9, 5)	95.00000	0.000000
DS ( 9, 6)	9.000000	0.000000
DS ( 9, 7)	133.0000	0.000000
DS ( 9, 8)	18.00000	0.000000
DS ( 9, 9)	0.000000	0.000000
DS ( 9, 10)	186.0000	0.000000
DS ( 9, 11)	97.00000	0.000000
DS ( 9, 12)	117.0000	0.000000
DS ( 9, 13)	9.100000	0.000000
DS ( 10, 1)	128.0000	0.000000
DS ( 10, 2)	176.0000	0.000000
DS ( 10, 3)	205.0000	0.000000
DS ( 10, 4)	162.0000	0.000000
DS ( 10, 5)	91.00000	0.000000
DS ( 10, 6)	192.0000	0.000000
DS ( 10, 7)	141.0000	0.000000

Solution Report - REVISI-Rumus Demand_Pengolahan Data LINGO		
DS ( 10, 9)	196.0000	0.000000
DS ( 10, 10)	0.000000	0.000000
DS ( 10, 11)	85.00000	0.000000
DS ( 10, 12)	101.0000	0.000000
DS ( 10, 13)	185.0000	0.000000
DS ( 11, 1)	55.00000	0.000000
DS ( 11, 2)	103.0000	0.000000
DS ( 11, 3)	117.0000	0.000000
DS ( 11, 4)	78.00000	0.000000
DS ( 11, 5)	4.400000	0.000000
DS ( 11, 6)	103.0000	0.000000
DS ( 11, 7)	55.00000	0.000000
DS ( 11, 8)	114.0000	0.000000
DS ( 11, 9)	97.00000	0.000000
DS ( 11, 10)	85.00000	0.000000
DS ( 11, 11)	0.000000	0.000000
DS ( 11, 12)	27.00000	0.000000
DS ( 11, 13)	98.00000	0.000000
DS ( 12, 1)	36.00000	0.000000
DS ( 12, 2)	77.00000	0.000000
DS ( 12, 3)	117.0000	0.000000
DS ( 12, 4)	78.00000	0.000000
DS ( 12, 5)	34.00000	0.000000
DS ( 12, 6)	123.0000	0.000000
DS ( 12, 7)	55.00000	0.000000
DS ( 12, 8)	133.0000	0.000000
DS ( 12, 9)	117.0000	0.000000
DS ( 12, 10)	101.0000	0.000000
DS ( 12, 11)	27.00000	0.000000
DS ( 12, 12)	0.000000	0.000000
DS ( 12, 13)	117.0000	0.000000
DS ( 13, 1)	145.0000	0.000000
DS ( 13, 2)	193.0000	0.000000
DS ( 13, 3)	196.0000	0.000000
DS ( 13, 4)	156.0000	0.000000
DS ( 13, 5)	96.00000	0.000000
DS ( 13, 6)	5.600000	0.000000
DS ( 13, 7)	134.0000	0.000000
DS ( 13, 8)	14.00000	0.000000
DS ( 13, 9)	9.100000	0.000000
DS ( 13, 10)	185.0000	0.000000
DS ( 13, 11)	99.00000	0.000000
DS ( 13, 12)	117.0000	0.000000
DS ( 13, 13)	0.000000	0.000000
Row	Slack or Surplus	Dual Price
1	0.000000	0.000000
2	0.000000	0.000000
3	0.000000	0.000000
4	0.000000	0.000000
5	0.000000	0.000000
6	0.000000	0.000000
7	0.000000	0.000000
8	0.000000	0.000000
9	0.000000	0.000000
10	0.000000	0.000000
11	0.000000	0.000000
12	0.000000	-1.000000
13	0.000000	0.000000
14	0.000000	-1.000000
15	0.000000	0.000000
16	0.000000	0.000000
17	0.000000	0.000000
18	0.000000	0.000000
19	0.000000	0.000000
20	0.000000	0.000000
21	0.000000	0.000000
22	0.000000	0.000000
23	0.000000	0.000000
24	0.000000	0.000000
25	0.000000	0.000000
26	0.000000	0.000000
27	0.000000	0.000000
28	0.000000	0.000000
29	0.000000	0.000000
30	0.000000	0.000000
31	0.000000	0.000000
32	0.000000	0.000000
33	0.000000	0.000000
34	0.000000	0.000000
35	0.000000	0.000000
36	0.000000	0.000000
37	0.000000	0.000000
38	0.000000	0.000000
39	0.000000	0.000000
40	0.000000	0.000000
41	0.000000	0.000000
42	0.000000	0.000000
43	0.000000	0.000000
44	0.000000	0.000000
45	0.000000	0.000000
46	0.000000	0.000000
47	0.000000	0.000000
48	0.000000	0.000000
49	0.000000	0.000000
50	0.000000	0.000000
51	0.000000	0.000000
52	0.000000	0.000000
53	0.000000	0.000000
54	0.000000	0.000000
55	0.000000	0.000000
56	0.000000	0.000000
57	0.000000	0.000000
58	0.000000	0.000000
59	0.000000	0.000000
60	0.000000	0.000000
61	0.000000	0.000000
62	0.000000	0.000000
63	0.000000	0.000000
64	0.000000	0.000000
65	0.000000	0.000000

Solution Report - REVISI-Rumus Demand_Pengolahan Data LINGO		
65	0.000000	0.000000
66	0.000000	0.000000
67	0.000000	0.000000
68	0.000000	0.000000
69	0.000000	0.000000
70	0.000000	0.000000
71	0.000000	0.000000
72	0.000000	0.000000
73	0.000000	0.000000
74	0.000000	0.000000
75	0.000000	0.000000
76	0.000000	0.000000
77	0.000000	0.000000
78	0.000000	0.000000
79	0.000000	0.000000
80	0.000000	0.000000
81	0.000000	0.000000
82	0.000000	0.000000
83	0.000000	0.000000
84	0.000000	0.000000
85	0.000000	0.000000
86	0.000000	0.000000
87	0.000000	0.000000
88	0.000000	0.000000
89	0.000000	0.000000
90	0.000000	0.000000
91	0.000000	0.000000
92	0.000000	0.000000
93	0.000000	0.000000
94	0.000000	0.000000
95	0.000000	0.000000
96	0.000000	0.000000
97	0.000000	0.000000
98	0.000000	0.000000
99	0.000000	0.000000
100	0.000000	0.000000
101	0.000000	0.000000
102	0.000000	0.000000
103	0.000000	0.000000
104	0.000000	0.000000
105	0.000000	0.000000
106	0.000000	0.000000
107	0.000000	0.000000
108	0.000000	0.000000
109	0.000000	0.000000
110	0.000000	0.000000
111	0.000000	0.000000
112	0.000000	0.000000
113	0.000000	0.000000
114	0.000000	0.000000
115	0.000000	0.000000
116	0.000000	0.000000
117	0.000000	0.000000
118	0.000000	0.000000
119	0.000000	0.000000
120	0.000000	0.000000
121	0.000000	0.000000
122	0.000000	0.000000
123	0.000000	0.000000
124	0.000000	0.000000
125	0.000000	0.000000
126	0.000000	0.000000
127	0.000000	0.000000
128	0.000000	0.000000
129	0.000000	0.000000
130	0.000000	0.000000
131	0.000000	0.000000
132	0.000000	0.000000
133	0.000000	0.000000
134	0.000000	0.000000
135	0.000000	0.000000
136	0.000000	0.000000
137	0.000000	0.000000
138	0.000000	0.000000
139	0.000000	0.000000
140	0.000000	0.000000
141	0.000000	0.000000
142	0.000000	0.000000
143	0.000000	0.000000
144	0.000000	0.000000
145	0.000000	-1.000000
146	0.000000	0.000000
147	0.000000	0.000000
148	0.000000	0.000000
149	0.000000	0.000000
150	0.000000	0.000000
151	0.000000	0.000000
152	0.000000	0.000000
153	0.000000	0.000000
154	0.000000	0.000000
155	0.000000	0.000000
156	0.000000	0.000000
157	0.000000	0.000000
158	0.000000	0.000000
159	0.000000	0.000000
160	0.000000	0.000000
161	0.000000	0.000000
162	0.000000	0.000000
163	0.000000	0.000000
164	0.000000	0.000000
165	0.000000	0.000000
166	0.000000	0.000000
167	0.000000	0.000000
168	0.000000	0.000000
169	0.000000	0.000000
170	0.000000	0.000000
171	0.000000	0.000000
172	0.000000	0.000000
173	0.000000	0.000000
174	0.000000	0.000000
175	0.000000	0.000000

Solution Report - REVISI-Rumus Demand_Pengolahan Data LINGO		
176	0.000000	0.000000
177	0.000000	0.000000
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182	0.000000	-1.000000
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277	0.000000	0.000000
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Solution Report - REVISI-Rumus Demand_Pengolahan Data LINGO		
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389	0.000000	0.000000
390	0.000000	0.000000
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Solution Report - REVISI-Rumus Demand_Pengolahan Data LINGO		
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Solution Report - REVISI-Rumus Demand_Pengolahan Data LINGO		
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Solution Report - REVISI-Rumus Demand_Pengolahan Data LINGO		
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715	0.000000	0.000000
716	0.000000	0.000000
717	0.000000	0.000000
718	0.000000	-1.000000
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Solution Report - REVISI-Rumus Demand_Pengolahan Data LINGO		
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756	0.000000	0.000000
757	0.000000	0.000000
758	0.000000	-1.000000
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760	0.000000	0.000000
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763	0.000000	0.000000
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780	0.000000	0.000000
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841	0.000000	0.000000

Solution Report - REVISI-Rumus Demand_Pengolahan Dats LINGO		
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850	0.000000	0.000000
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853	0.000000	0.000000
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855	0.000000	0.000000
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897	0.000000	0.000000
898	0.000000	0.000000
899	0.000000	0.000000
900	0.000000	0.000000
901	0.000000	0.000000
902	0.000000	0.000000
903	0.000000	0.000000
904	0.000000	0.000000
905	0.000000	0.000000
906	0.000000	0.000000
907	0.000000	0.000000
908	0.000000	0.000000
909	0.000000	0.000000
910	0.000000	0.000000
911	0.000000	0.000000
912	0.000000	0.000000
913	0.000000	0.000000
914	0.000000	0.000000
915	0.000000	0.000000
916	0.000000	0.000000
917	0.000000	0.000000
918	0.000000	0.000000
919	0.000000	0.000000
920	0.000000	0.000000
921	0.000000	0.000000
922	0.000000	0.000000
923	0.000000	0.000000
924	0.000000	0.000000
925	0.000000	0.000000
926	0.000000	0.000000
927	0.000000	0.000000
928	0.000000	0.000000
929	0.000000	0.000000
930	0.000000	0.000000
931	0.000000	0.000000
932	0.000000	0.000000
933	0.000000	0.000000
934	0.000000	0.000000
935	0.000000	0.000000
936	0.000000	0.000000
937	0.000000	0.000000
938	0.000000	0.000000
939	0.000000	0.000000
940	0.000000	0.000000
941	5.000000	0.000000
942	10.000000	0.000000
943	0.000000	0.000000
944	5.000000	0.000000
945	45.000000	0.000000
946	30.000000	0.000000
947	21.000000	0.000000
948	95.000000	0.000000
949	159.000000	0.000000
950	118.000000	0.000000
951	0.000000	0.000000
952	55.388889	0.000000

Solution Report - REVISI-Rumus Demand_Pengolahan Data LINGO		
953	204.0000	0.000000
954	204.0000	0.000000
955	0.000000	0.000000
956	0.000000	0.000000
957	26.01587	0.000000
958	108.0000	0.000000
959	63.00000	0.000000
960	49.00000	0.000000
961	0.000000	0.000000
962	8.000000	0.000000
963	129.0000	0.000000
964	219.6111	0.000000
965	0.000000	0.000000
966	0.000000	0.000000
967	189.0000	0.000000
968	105.0000	0.000000
969	195.9841	0.000000
970	525.0000	0.000000
971	9999859.	0.000000
972	9999743.	0.000000
973	0.1000034E+08	0.000000
974	0.1000009E+08	0.000000
975	9999661.	0.000000
976	9999624.	0.000000
977	0.1000000E+08	0.000000
978	9999849.	0.000000
979	9999753.	0.000000
980	9999669.	0.000000
981	9999594.	0.000000
982	0.1000052E+08	0.000000
983	9999859.	0.000000
984	9999743.	0.000000
985	0.1000034E+08	0.000000
986	0.1000009E+08	0.000000
987	9999661.	0.000000
988	9999624.	0.000000
989	0.1000000E+08	0.000000
990	9999849.	0.000000
991	9999753.	0.000000
992	9999669.	0.000000
993	9999594.	0.000000
994	0.1000052E+08	0.000000
995	9999859.	0.000000
996	9999743.	0.000000
997	0.1000034E+08	0.000000
998	0.1000009E+08	0.000000
999	9999661.	0.000000
1000	9999624.	0.000000
1001	0.1000000E+08	0.000000
1002	9999849.	0.000000
1003	9999753.	0.000000
1004	9999669.	0.000000
1005	9999594.	0.000000
1006	0.1000052E+08	0.000000
1007	9999859.	0.000000
1008	9999743.	0.000000
1009	0.1000034E+08	0.000000
1010	0.1000009E+08	0.000000
1011	9999661.	0.000000
1012	9999624.	0.000000
1013	0.1000000E+08	0.000000
1014	9999849.	0.000000
1015	9999753.	0.000000
1016	9999669.	0.000000
1017	9999594.	0.000000
1018	0.1000052E+08	0.000000
1019	9999859.	0.000000
1020	9999743.	0.000000
1021	0.1000034E+08	0.000000
1022	0.1000009E+08	0.000000
1023	9999661.	0.000000
1024	9999624.	0.000000
1025	0.1000000E+08	0.000000
1026	9999849.	0.000000
1027	9999753.	0.000000
1028	9999669.	0.000000
1029	9999594.	0.000000
1030	0.1000032E+08	0.000000
1031	9999643.	0.000000
1032	9999668.	0.000000
1033	0.1000023E+08	0.000000
1034	9999995.	0.000000
1035	9999483.	0.000000
1036	9999557.	0.000000
1037	9999906.	0.000000
1038	9999708.	0.000000
1039	9999599.	0.000000
1040	9999522.	0.000000
1041	9999482.	0.000000
1042	0.1000032E+08	0.000000
1043	9999643.	0.000000
1044	9999668.	0.000000
1045	0.1000023E+08	0.000000
1046	9999995.	0.000000
1047	9999483.	0.000000
1048	9999557.	0.000000
1049	9999906.	0.000000
1050	9999708.	0.000000
1051	9999599.	0.000000
1052	9999522.	0.000000
1053	9999482.	0.000000
1054	0.1000032E+08	0.000000
1055	9999643.	0.000000
1056	9999668.	0.000000
1057	0.1000023E+08	0.000000
1058	9999995.	0.000000
1059	9999483.	0.000000
1060	9999557.	0.000000
1061	9999906.	0.000000
1062	9999708.	0.000000
1063	9999599.	0.000000

Solution Report - REVISI-Rumus Demand_Pengolahan Dats LINGO		
1064	9999522.	0.000000
1065	9999482.	0.000000
1066	0.1000032E+08	0.000000
1067	9999643.	0.000000
1068	9999668.	0.000000
1069	0.1000023E+08	0.000000
1070	9999995.	0.000000
1071	9999483.	0.000000
1072	9999557.	0.000000
1073	9999906.	0.000000
1074	9999708.	0.000000
1075	9999599.	0.000000
1076	9999522.	0.000000
1077	9999482.	0.000000
1078	325.0000	0.000000
1079	9999643.	0.000000
1080	9999668.	0.000000
1081	0.1000023E+08	0.000000
1082	9999995.	0.000000
1083	9999483.	0.000000
1084	9999557.	0.000000
1085	9999906.	0.000000
1086	9999708.	0.000000
1087	9999599.	0.000000
1088	9999522.	0.000000
1089	9999482.	0.000000
1090	0.1000054E+08	0.000000
1091	9999599.	0.000000
1092	0.1000000E+08	0.000000
1093	0.1000044E+08	0.000000
1094	0.1000019E+08	0.000000
1095	9999735.	0.000000
1096	9999726.	0.000000
1097	0.1000010E+08	0.000000
1098	9999922.	0.000000
1099	9999851.	0.000000
1100	9999737.	0.000000
1101	9999694.	0.000000
1102	0.1000054E+08	0.000000
1103	9999859.	0.000000
1104	0.1000000E+08	0.000000
1105	0.1000044E+08	0.000000
1106	0.1000019E+08	0.000000
1107	9999735.	0.000000
1108	9999726.	0.000000
1109	0.1000010E+08	0.000000
1110	9999922.	0.000000
1111	9999851.	0.000000
1112	9999737.	0.000000
1113	9999694.	0.000000
1114	0.1000054E+08	0.000000
1115	9999859.	0.000000
1116	0.1000000E+08	0.000000
1117	0.1000044E+08	0.000000
1118	0.1000019E+08	0.000000
1119	9999735.	0.000000
1120	9999726.	0.000000
1121	0.1000010E+08	0.000000
1122	9999922.	0.000000
1123	9999851.	0.000000
1124	9999737.	0.000000
1125	9999694.	0.000000
1126	0.1000054E+08	0.000000
1127	9999859.	0.000000
1128	0.1000000E+08	0.000000
1129	0.1000044E+08	0.000000
1130	0.1000019E+08	0.000000
1131	9999735.	0.000000
1132	9999726.	0.000000
1133	0.1000010E+08	0.000000
1134	9999922.	0.000000
1135	9999851.	0.000000
1136	9999737.	0.000000
1137	9999694.	0.000000
1138	0.1000054E+08	0.000000
1139	9999859.	0.000000
1140	0.000000	0.000000
1141	0.1000044E+08	0.000000
1142	0.1000019E+08	0.000000
1143	9999735.	0.000000
1144	9999726.	0.000000
1145	0.1000010E+08	0.000000
1146	9999922.	0.000000
1147	9999851.	0.000000
1148	9999737.	0.000000
1149	9999694.	0.000000
1150	0.1000000E+08	0.000000
1151	9999290.	0.000000
1152	9999397.	0.000000
1153	9999277.	0.000000
1154	9999681.	0.000000
1155	9999186.	0.000000
1156	9999215.	0.000000
1157	9999587.	0.000000
1158	9999419.	0.000000
1159	9999360.	0.000000
1160	9999195.	0.000000
1161	9999187.	0.000000
1162	0.1000000E+08	0.000000
1163	9999290.	0.000000
1164	9999397.	0.000000
1165	9999277.	0.000000
1166	9999681.	0.000000
1167	9999186.	0.000000
1168	9999215.	0.000000
1169	9999587.	0.000000
1170	9999419.	0.000000
1171	9999360.	0.000000
1172	9999195.	0.000000
1173	9999187.	0.000000
1174	0.000000	0.000000

Solution Report - REVISI-Rumus Demand_Pengolahan Data LINGO		
1175	9999290.	0.000000
1176	9999397.	0.000000
1177	9999277.	0.000000
1178	9999691.	0.000000
1179	9999186.	0.000000
1180	9999195.	0.000000
1181	9999587.	0.000000
1182	9999419.	0.000000
1183	9999360.	0.000000
1184	9999195.	0.000000
1185	9999187.	0.000000
1186	0.1000000E+08	0.000000
1187	9999290.	0.000000
1188	9999397.	0.000000
1189	9999277.	0.000000
1190	9999691.	0.000000
1191	9999186.	0.000000
1192	9999195.	0.000000
1193	9999587.	0.000000
1194	9999419.	0.000000
1195	9999360.	0.000000
1196	9999195.	0.000000
1197	9999187.	0.000000
1198	0.1000000E+08	0.000000
1199	9999290.	0.000000
1200	9999397.	0.000000
1201	9999277.	0.000000
1202	9999691.	0.000000
1203	9999186.	0.000000
1204	9999195.	0.000000
1205	9999587.	0.000000
1206	9999419.	0.000000
1207	9999360.	0.000000
1208	9999195.	0.000000
1209	9999187.	0.000000
1210	0.1000000E+08	0.000000
1211	9999365.	0.000000
1212	9999483.	0.000000
1213	9999348.	0.000000
1214	0.1000000E+08	0.000000
1215	9999261.	0.000000
1216	9999481.	0.000000
1217	9999831.	0.000000
1218	9999483.	0.000000
1219	9999412.	0.000000
1220	9999275.	0.000000
1221	9999419.	0.000000
1222	0.1000000E+08	0.000000
1223	9999365.	0.000000
1224	9999483.	0.000000
1225	9999348.	0.000000
1226	0.1000000E+08	0.000000
1227	9999261.	0.000000
1228	9999481.	0.000000
1229	9999831.	0.000000
1230	9999483.	0.000000
1231	9999412.	0.000000
1232	9999275.	0.000000
1233	9999419.	0.000000
1234	0.1000000E+08	0.000000
1235	9999365.	0.000000
1236	9999483.	0.000000
1237	9999348.	0.000000
1238	0.1000000E+08	0.000000
1239	9999261.	0.000000
1240	9999481.	0.000000
1241	9999831.	0.000000
1242	9999483.	0.000000
1243	9999412.	0.000000
1244	9999275.	0.000000
1245	9999419.	0.000000
1246	0.1000000E+08	0.000000
1247	9999365.	0.000000
1248	9999483.	0.000000
1249	9999348.	0.000000
1250	0.1000000E+08	0.000000
1251	9999261.	0.000000
1252	9999481.	0.000000
1253	9999831.	0.000000
1254	9999483.	0.000000
1255	9999412.	0.000000
1256	9999275.	0.000000
1257	9999419.	0.000000
1258	0.1000000E+08	0.000000
1259	9999365.	0.000000
1260	9999483.	0.000000
1261	9999348.	0.000000
1262	0.1000000E+08	0.000000
1263	9999261.	0.000000
1264	9999481.	0.000000
1265	9999831.	0.000000
1266	9999483.	0.000000
1267	9999412.	0.000000
1268	9999275.	0.000000
1269	9999419.	0.000000
1270	0.1000000E+08	0.000000
1271	0.1000000E+08	0.000000
1272	0.1000000E+08	0.000000
1273	0.1000000E+08	0.000000
1274	0.1000000E+08	0.000000
1275	0.1000000E+08	0.000000
1276	9999903.	0.000000
1277	0.1000000E+08	0.000000
1278	0.1000000E+08	0.000000
1279	0.1000000E+08	0.000000
1280	9999908.	0.000000
1281	9999871.	0.000000
1282	0.1000000E+08	0.000000
1283	0.1000000E+08	0.000000
1284	0.1000000E+08	0.000000
1285	0.1000000E+08	0.000000

Solution Report - REVISI-Rumus Demand_Pengolahan Data LINGO		
1284	0.1000061E+08	0.000000
1287	0.1000037E+08	0.000000
1288	9999903.	0.000000
1289	0.1000028E+08	0.000000
1290	0.1000010E+08	0.000000
1291	0.1000003E+08	0.000000
1292	9999908.	0.000000
1293	9999771.	0.000000
1294	0.1000076E+08	0.000000
1295	0.1000004E+08	0.000000
1296	0.1000008E+08	0.000000
1297	0.1000000E+08	0.000000
1298	0.1000061E+08	0.000000
1299	0.1000037E+08	0.000000
1300	9999903.	0.000000
1301	0.1000028E+08	0.000000
1302	0.1000010E+08	0.000000
1303	0.1000003E+08	0.000000
1304	9999908.	0.000000
1305	9999771.	0.000000
1306	0.1000076E+08	0.000000
1307	0.1000004E+08	0.000000
1308	0.1000008E+08	0.000000
1309	0.1000000E+08	0.000000
1310	0.1000061E+08	0.000000
1311	0.1000037E+08	0.000000
1312	9999903.	0.000000
1313	0.1000028E+08	0.000000
1314	0.1000010E+08	0.000000
1315	0.1000003E+08	0.000000
1316	9999908.	0.000000
1317	9999771.	0.000000
1318	0.1000076E+08	0.000000
1319	0.1000004E+08	0.000000
1320	0.1000008E+08	0.000000
1321	0.000000	0.000000
1322	0.1000061E+08	0.000000
1323	0.1000037E+08	0.000000
1324	9999903.	0.000000
1325	0.1000028E+08	0.000000
1326	0.1000010E+08	0.000000
1327	0.1000003E+08	0.000000
1328	9999908.	0.000000
1329	9999771.	0.000000
1330	0.1000054E+08	0.000000
1331	9999821.	0.000000
1332	9999770.	0.000000
1333	9999807.	0.000000
1334	0.1000046E+08	0.000000
1335	0.1000041E+08	0.000000
1336	9999719.	0.000000
1337	0.1000029E+08	0.000000
1338	9999943.	0.000000
1339	9999870.	0.000000
1340	9999733.	0.000000
1341	9999878.	0.000000
1342	0.1000054E+08	0.000000
1343	9999821.	0.000000
1344	9999870.	0.000000
1345	9999807.	0.000000
1346	0.1000046E+08	0.000000
1347	0.1000041E+08	0.000000
1348	9999719.	0.000000
1349	0.1000029E+08	0.000000
1350	9999943.	0.000000
1351	9999870.	0.000000
1352	9999733.	0.000000
1353	9999878.	0.000000
1354	0.1000054E+08	0.000000
1355	9999821.	0.000000
1356	9999870.	0.000000
1357	9999807.	0.000000
1358	0.1000046E+08	0.000000
1359	405.4111	0.000000
1360	9999719.	0.000000
1361	0.1000029E+08	0.000000
1362	9999943.	0.000000
1363	9999870.	0.000000
1364	9999733.	0.000000
1365	9999878.	0.000000
1366	0.1000054E+08	0.000000
1367	9999821.	0.000000
1368	9999970.	0.000000
1369	9999807.	0.000000
1370	0.1000046E+08	0.000000
1371	0.1000041E+08	0.000000
1372	9999719.	0.000000
1373	0.1000029E+08	0.000000
1374	9999943.	0.000000
1375	9999870.	0.000000
1376	9999733.	0.000000
1377	9999878.	0.000000
1378	0.1000054E+08	0.000000
1379	9999821.	0.000000
1380	9999970.	0.000000
1381	9999807.	0.000000
1382	0.1000046E+08	0.000000
1383	0.1000041E+08	0.000000
1384	9999719.	0.000000
1385	0.1000029E+08	0.000000
1386	9999943.	0.000000
1387	9999870.	0.000000
1388	9999733.	0.000000
1389	9999878.	0.000000
1390	0.1000019E+08	0.000000
1391	9999478.	0.000000
1392	9999600.	0.000000
1393	9999462.	0.000000
1394	0.1000011E+08	0.000000
1395	0.1000004E+08	0.000000
1396	9999374.	0.000000

Solution Report - REVISI-Rumus Demand_Pengolahan Data LINGO		
1397	9999575.	0.000000
1398	9999600.	0.000000
1399	9999528.	0.000000
1400	9999990.	0.000000
1401	9999522.	0.000000
1402	152.0000	0.000000
1403	9999478.	0.000000
1404	9999600.	0.000000
1405	9999462.	0.000000
1406	0.1000011E+08	0.000000
1407	0.1000004E+08	0.000000
1408	9999374.	0.000000
1409	9999575.	0.000000
1410	9999600.	0.000000
1411	9999528.	0.000000
1412	9999990.	0.000000
1413	9999522.	0.000000
1414	0.1000019E+08	0.000000
1415	9999478.	0.000000
1416	9999600.	0.000000
1417	9999462.	0.000000
1418	0.1000011E+08	0.000000
1419	0.1000004E+08	0.000000
1420	9999374.	0.000000
1421	9999575.	0.000000
1422	9999600.	0.000000
1423	9999528.	0.000000
1424	9999990.	0.000000
1425	9999522.	0.000000
1426	0.1000019E+08	0.000000
1427	9999478.	0.000000
1428	9999600.	0.000000
1429	9999462.	0.000000
1430	0.1000011E+08	0.000000
1431	0.1000004E+08	0.000000
1432	9999374.	0.000000
1433	9999575.	0.000000
1434	9999600.	0.000000
1435	9999528.	0.000000
1436	9999990.	0.000000
1437	9999522.	0.000000
1438	0.1000019E+08	0.000000
1439	9999478.	0.000000
1440	9999600.	0.000000
1441	9999462.	0.000000
1442	0.1000011E+08	0.000000
1443	0.1000004E+08	0.000000
1444	9999374.	0.000000
1445	9999575.	0.000000
1446	9999600.	0.000000
1447	9999528.	0.000000
1448	9999390.	0.000000
1449	9999522.	0.000000
1450	0.1000025E+08	0.000000
1451	9999537.	0.000000
1452	9999612.	0.000000
1453	9999494.	0.000000
1454	0.1000015E+08	0.000000
1455	9999899.	0.000000
1456	9999403.	0.000000
1457	9999434.	0.000000
1458	9999810.	0.000000
1459	9999598.	0.000000
1460	9999452.	0.000000
1461	9999409.	0.000000
1462	0.1000025E+08	0.000000
1463	9999537.	0.000000
1464	9999612.	0.000000
1465	9999494.	0.000000
1466	0.1000015E+08	0.000000
1467	9999899.	0.000000
1468	9999403.	0.000000
1469	9999434.	0.000000
1470	9999810.	0.000000
1471	9999598.	0.000000
1472	9999452.	0.000000
1473	9999409.	0.000000
1474	0.1000025E+08	0.000000
1475	9999537.	0.000000
1476	9999612.	0.000000
1477	9999494.	0.000000
1478	0.1000015E+08	0.000000
1479	9999899.	0.000000
1480	9999403.	0.000000
1481	9999434.	0.000000
1482	9999810.	0.000000
1483	9999598.	0.000000
1484	9999452.	0.000000
1485	9999409.	0.000000
1486	249.0000	0.000000
1487	9999537.	0.000000
1488	9999612.	0.000000
1489	9999494.	0.000000
1490	0.1000015E+08	0.000000
1491	9999899.	0.000000
1492	9999403.	0.000000
1493	9999434.	0.000000
1494	9999810.	0.000000
1495	9999598.	0.000000
1496	9999452.	0.000000
1497	9999409.	0.000000
1498	0.1000025E+08	0.000000
1499	9999537.	0.000000
1500	9999612.	0.000000
1501	9999494.	0.000000
1502	0.1000015E+08	0.000000
1503	9999899.	0.000000
1504	9999403.	0.000000
1505	9999434.	0.000000
1506	9999810.	0.000000
1507	9999598.	0.000000



Solution Report - REVISI-Rumus Demand_Pengolahan Data LINGO		
1508	9999452.	0.000000
1509	9999409.	0.000000
1510	0.1000058E+08	0.000000
1511	9999864.	0.000000
1512	9999926.	0.000000
1513	9999846.	0.000000
1514	0.1000052E+08	0.000000
1515	0.1000025E+08	0.000000
1516	9999751.	0.000000
1517	9999784.	0.000000
1518	0.1000016E+08	0.000000
1519	0.1000002E+08	0.000000
1520	9999769.	0.000000
1521	9999751.	0.000000
1522	0.1000058E+08	0.000000
1523	9999864.	0.000000
1524	9999926.	0.000000
1525	9999846.	0.000000
1526	0.1000052E+08	0.000000
1527	0.1000025E+08	0.000000
1528	9999751.	0.000000
1529	9999784.	0.000000
1530	0.1000016E+08	0.000000
1531	0.1000002E+08	0.000000
1532	9999769.	0.000000
1533	9999751.	0.000000
1534	0.1000058E+08	0.000000
1535	9999864.	0.000000
1536	9999926.	0.000000
1537	9999846.	0.000000
1538	0.1000052E+08	0.000000
1539	0.1000025E+08	0.000000
1540	9999751.	0.000000
1541	9999784.	0.000000
1542	0.1000016E+08	0.000000
1543	0.1000002E+08	0.000000
1544	9999769.	0.000000
1545	9999751.	0.000000
1546	0.1000058E+08	0.000000
1547	9999864.	0.000000
1548	9999926.	0.000000
1549	9999846.	0.000000
1550	0.1000052E+08	0.000000
1551	0.1000025E+08	0.000000
1552	9999751.	0.000000
1553	9999784.	0.000000
1554	0.1000016E+08	0.000000
1555	21.00000	0.000000
1556	9999769.	0.000000
1557	9999751.	0.000000
1558	0.1000058E+08	0.000000
1559	9999864.	0.000000
1560	9999926.	0.000000
1561	9999846.	0.000000
1562	0.1000052E+08	0.000000
1563	0.1000025E+08	0.000000
1564	9999751.	0.000000
1565	9999784.	0.000000
1566	0.1000016E+08	0.000000
1567	0.1000002E+08	0.000000
1568	9999769.	0.000000
1569	9999751.	0.000000
1570	0.1000076E+08	0.000000
1571	56.00000	0.000000
1572	0.1000012E+08	0.000000
1573	0.1000001E+08	0.000000
1574	0.1000063E+08	0.000000
1575	0.1000039E+08	0.000000
1576	9999914.	0.000000
1577	9999923.	0.000000
1578	0.1000030E+08	0.000000
1579	0.1000015E+08	0.000000
1580	0.1000004E+08	0.000000
1581	9999877.	0.000000
1582	0.1000076E+08	0.000000
1583	0.1000006E+08	0.000000
1584	0.1000012E+08	0.000000
1585	0.1000001E+08	0.000000
1586	0.1000063E+08	0.000000
1587	0.1000039E+08	0.000000
1588	9999914.	0.000000
1589	9999923.	0.000000
1590	0.1000030E+08	0.000000
1591	0.1000015E+08	0.000000
1592	0.1000004E+08	0.000000
1593	9999877.	0.000000
1594	0.1000076E+08	0.000000
1595	0.1000006E+08	0.000000
1596	0.1000012E+08	0.000000
1597	0.1000001E+08	0.000000
1598	0.1000063E+08	0.000000
1599	0.1000039E+08	0.000000
1600	9999914.	0.000000
1601	9999923.	0.000000
1602	0.1000030E+08	0.000000
1603	0.1000015E+08	0.000000
1604	0.1000004E+08	0.000000
1605	9999877.	0.000000
1606	0.1000076E+08	0.000000
1607	0.1000006E+08	0.000000
1608	0.1000012E+08	0.000000
1609	0.1000001E+08	0.000000
1610	0.1000063E+08	0.000000
1611	0.1000039E+08	0.000000
1612	9999914.	0.000000
1613	9999923.	0.000000
1614	0.1000030E+08	0.000000
1615	0.1000015E+08	0.000000
1616	0.1000004E+08	0.000000
1617	9999877.	0.000000
1618	0.1000076E+08	0.000000

Solution Report - REVISI-Rumus Demand_Pengolahan Data LINGO		
1619	0.1000004E+08	0.000000
1620	0.1000012E+08	0.000000
1621	0.1000001E+08	0.000000
1622	0.1000003E+08	0.000000
1623	0.1000039E+08	0.000000
1624	9999914.	0.000000
1625	9999923.	0.000000
1626	0.1000030E+08	0.000000
1627	0.1000018E+08	0.000000
1628	0.1000004E+08	0.000000
1629	9999877.	0.000000
1630	0.1000064E+08	0.000000
1631	9999926.	0.000000
1632	0.1000003E+08	0.000000
1633	9999910.	0.000000
1634	0.1000057E+08	0.000000
1635	0.1000048E+08	0.000000
1636	9999822.	0.000000
1637	0.1000001E+08	0.000000
1638	0.1000003E+08	0.000000
1639	0.1000005E+08	0.000000
1640	9999972.	0.000000
1641	9999922.	0.000000
1642	0.1000064E+08	0.000000
1643	9999926.	0.000000
1644	0.1000003E+08	0.000000
1645	9999910.	0.000000
1646	0.1000057E+08	0.000000
1647	0.1000048E+08	0.000000
1648	9999822.	0.000000
1649	0.1000001E+08	0.000000
1650	378.9841	0.000000
1651	0.1000003E+08	0.000000
1652	9999972.	0.000000
1653	9999822.	0.000000
1654	0.1000064E+08	0.000000
1655	9999926.	0.000000
1656	0.1000003E+08	0.000000
1657	9999910.	0.000000
1658	0.1000057E+08	0.000000
1659	0.1000048E+08	0.000000
1660	9999822.	0.000000
1661	0.1000001E+08	0.000000
1662	0.1000038E+08	0.000000
1663	0.1000005E+08	0.000000
1664	9999972.	0.000000
1665	9999822.	0.000000
1666	0.1000064E+08	0.000000
1667	9999926.	0.000000
1668	0.1000003E+08	0.000000
1669	9999910.	0.000000
1670	0.1000057E+08	0.000000
1671	0.1000048E+08	0.000000
1672	9999822.	0.000000
1673	0.1000001E+08	0.000000
1674	0.1000038E+08	0.000000
1675	0.1000005E+08	0.000000
1676	9999972.	0.000000
1677	9999822.	0.000000
1678	0.1000064E+08	0.000000
1679	9999926.	0.000000
1680	0.1000003E+08	0.000000
1681	9999910.	0.000000
1682	0.1000057E+08	0.000000
1683	0.1000048E+08	0.000000
1684	9999822.	0.000000
1685	0.1000001E+08	0.000000
1686	0.1000003E+08	0.000000
1687	0.1000005E+08	0.000000
1688	9999972.	0.000000
1689	9999822.	0.000000

**Lampiran 8. Lembar Revisi Setelah Sidang**

**UNIVERSITAS 17 AGUSTUS 1945 SURABAYA  
FAKULTAS TEKNIK  
PROGRAM STUDI TEKNIK INDUSTRI**

**REVISI SIDANG TUGAS AKHIR**

**NAMA** : Fifa Marisa Irwayu  
**NBI** : 1411900166  
**JUDUL** : OPTIMALISASI RUTE DISTRIBUSI PUPUK MEREK DOLOMITE GUNA MEMINIMASI BIAYA PENGIRIMAN PADA PT WMB  
 (Studi Kasus : PT WMB, Gresik)  
**BATAS BIMBINGAN REVISI** : 1 Minggu setelah Sidang

NO	URAIAN	BAB	HALAMAN	NO	URAIAN	BAB	HALAMAN
	Penambahan variabel "Luarga"			1.	Jarak dan waktu tidak bisa diabaikan		
				2.	Asumsi kecepatan kendaraan. dlm gr. tol.		
				3.	Beban Pemasangan BBM kesehatan kecepatan		

Telah Direvisi,  
Dosen Penguji 1

  
Ir. Setijanen Djoko Harijanto, MM


Dosen Penguji 2

  
Hery Murnawan, ST., MT

Surabaya, 30 Mei 2023  
Mengetahui  
Dosen Pembimbing,

  
Putu Eka Dewi Karunia Wati, ST., MT.

## Lampiran 9. Lembar Katu Bimbingan Tugas Akhir




**JURNAL BIMBINGAN TUGAS AKHIR**  
**PRODI TEKNIK INDUSTRI**  
**SEMESTER GASAL 2022/2023**

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Nama : FIFIA MARISA IRWAYU  
 NBI : 1411900166

Judul Penelitian : OPTIMALISASI RUTE DISTRIBUSI PUPUK MEKAP  
 DOLOMITE GUNA MEMINIMASI BIAYA PENGIRIMAN PADA PT WMB  
 ( Studi Kasus : PT WMB , GRESIK )

Dosen Pembimbing: PUTU EKA DEWI KARUNIA WATI, ST, MT.



No.	Tanggal	Materi Bimbingan	Catatan Pembimbing	Paraf Pembimbing
1.	27/ Januari 2023	BAB I	→ Pengambilan data dan dimana total biaya pengiriman, kondisi jalan, regulasi, waktu bus & truk	<i>[Signature]</i>
2.	06/ Februari 2023	BAB I	→ menghapus flowchart, memperbaiki kalimat. dan analisis loading, unloading & biaya.	<i>[Signature]</i>
3.	09/ Februari 2023	BAB I & II	→ Pengurutan paragraf pd tiap kalimat, Analisa model, penambahan teori	<i>[Signature]</i>
1.	14/ Februari 2023	BAB III	→ Pembetulan flowchart penelitian & pembuatan model mathematical	<i>[Signature]</i>
5.	16/ Februari 2023	BAB III	→ Pembetulan variabel keputusan, fungsi tujuan & fungsi kendala.	<i>[Signature]</i>
2.	17/ Februari 2023	BAB III	→ Pengurutan paragraf pada pembuatan model matematis, pelayan LIFO	<i>[Signature]</i>
7.	18/ Maret 2023	BAB III	→ mengurutan model matematis → Validasi lingu	<i>[Signature]</i>
6.	12/ April 2023	BAB III	→ Melanjutkan simulasi LIFO → Membuat model dari beberapa customer	<i>[Signature]</i>
9.	04/ Mei 2023	BAB III	→ Cek derivative sets → Mencantumkan variable definition pd LIFO	<i>[Signature]</i>
10.	09/ Mei 2023	BAB III	→ Rerisi fungsi kendala → Cek hasil running	<i>[Signature]</i>
11.	20/ Mei 2023	BAB III	→ ACC → Buat jurnal.	<i>[Signature]</i>
12.	25/ Mei 2023	Jurnal	→ Rerisi jurnal	<i>[Signature]</i>
13.	26/ Mei 2023	Jurnal	→ Melanjutkan jurnal	<i>[Signature]</i>
14.	27/ Mei 2023	PPT	→ Melanjutkan pembuatan PPT	<i>[Signature]</i>
15.	29/ Mei 2023	PPT	→ Melanjutkan pembuatan PPT	<i>[Signature]</i>

### Lampiran 10. Biodata Penulis



**Fifa Marisa Irwayu** adalah nama penulis dari tugas akhir ini. Penulis merupakan anak pertama dari Ibu Wiwik Zuliyatin dan Bpk Mas'udin. Penulis dilahirkan di Gresik pada 25 November 2001. Saat ini, penulis tinggal di Jl. Pendidikan Ds. Banyuurip RT 002 RW 004 Kec. Ujungpangkah Kab. Gresik. Fifa Marisa Irwayu atau yang kerap dipanggil dengan sebutan marisa memiliki hobby menulis dan juga membaca. Adapun beberapa novel yang telah penulis terbitkan antara lain: *Kembalikan Aku ke Jalan-Mu*, *Siluet dalam Lentera*, dan *Teror Jum'at Malam*.

Penulis juga aktif dalam mengikuti organisasi selama di perkuliahan seperti HIMATITA (Himpunan Mahasiswa Teknik Industri) dan Aslab (Asisten Laboratorium). Penulis menempuh pendidikan mulai MI Al-Fattah II Banyuurip, melanjutkan ke SMPN 1 Ujungpangkah dan MAN 1 Gresik, hingga akhirnya dapat melanjutkan studi di Fakultas Teknik Program Studi Teknik Industri Universitas 17 Agustus 1945 Surabaya. Adapun motto yang selama ini menjadi semangat bagi penulis untuk menyelesaikan tugas akhir ini yaitu **“Orang Bijak Adalah Orang yang Menggunakan Kesempatan dalam Suatu Kesempitan”**. Dengan ketekunan dan motivasi tinggi untuk terus belajar dan berusaha, akhirnya penulis berhasil menyelesaikan pengerjaan tugas akhir ini. Semoga dengan penulisan tugas akhir ini dapat memberikan kontribusi positif dalam dunia pendidikan.