



**LAMPIRAN**

**Behaviour Reproduction Test**

وَمَا كُنَّا بِمُعَظَّمِي الْبَلَاءِ

## 1. Penjualan ke konsumen

Periode	Output Model(xi)	Output aktual (yi)	$d_i=(x_i-y_i)$	$d_i^2$
1	130 galon	140 galon	-10 galon	100 galon
2	0 galon	0 galon	0 galon	0 galon
3	0 galon	0 galon	0 galon	0 galon
4	0 galon	0 galon	0 galon	0 galon
5	0 galon	0 galon	0 galon	0 galon
6	0 galon	0 galon	0 galon	0 galon
7	0 galon	0 galon	0 galon	0 galon
8	130 galon	135 galon	-5 galon	25 galon
9	0 galon	0 galon	0 galon	0 galon
10	0 galon	0 galon	0 galon	0 galon
11	0.7 galon	0 galon	0.7 galon	0.49 galon
12	0.6 galon	0 galon	0.6 galon	0.36 galon
13	0.5 galon	0 galon	0.5 galon	0.25 galon
14	0.4 galon	0 galon	0.4 galon	0.16 galon
15	138 galon	142 galon	-4 galon	16 galon
16	0 galon	0 galon	0 galon	0 galon
17	0 galon	0 galon	0 galon	0 galon
18	1 galon	0 galon	1 galon	1 galon
19	0.9 galon	0 galon	0.9 galon	0.81 galon
20	0.7 galon	0 galon	0.7 galon	0.49 galon
21	0.6 galon	0 galon	0.6 galon	0.36 galon
22	134 galon	133 galon	1 galon	1 galon
23	0.5 galon	0 galon	0.5 galon	0.25 galon
24	0.4 galon	0 galon	0.4 galon	0.16 galon
25	0.3 galon	0 galon	0.3 galon	0.09 galon
26	0.3 galon	0 galon	0.3 galon	0.09 galon
27	0.2 galon	0 galon	0.2 galon	0.04 galon
28	0.2 galon	0 galon	0.2 galon	0.04 galon
29	131 galon	131 galon	0 galon	0 galon
30	0 galon	0 galon	0 galon	0 galon
31	0 galon	0 galon	0 galon	0 galon
32	0.3 galon	0 galon	0.3 galon	0.09 galon
33	0.2 galon	0 galon	0.2 galon	0.04 galon
34	0.2 galon	0 galon	0.2 galon	0.04 galon
35	0.2 galon	0 galon	0.2 galon	0.04 galon
36	131 galon	134 galon	-3 galon	9 galon
37	0 galon	0 galon	0 galon	0 galon
38	0 galon	0 galon	0 galon	0 galon
39	0.6 galon	0 galon	0.6 galon	0.36 galon
40	0.5 galon	0 galon	0.5 galon	0.25 galon
41	0.4 galon	0 galon	0.4 galon	0.16 galon

42	0.4 galon	0 galon	0.4 galon	0.16 galon
43	130 galon	130 galon	0 galon	0 galon
44	0.3 galon	0 galon	0.3 galon	0.09 galon
45	0.2 galon	0 galon	0.2 galon	0.04 galon
46	0.2 galon	0 galon	0.2 galon	0.04 galon
47	0.2 galon	0 galon	0.2 galon	0.04 galon
48	0.2 galon	0 galon	0.2 galon	0.04 galon
49	0.1 galon	0 galon	0.1 galon	0.01 galon
50	128 galon	128 galon	0 galon	0 galon
51	0.1 galon	0 galon	0.1 galon	0.01 galon
52	0.08 galon	0 galon	0.08 galon	0.0064 galon
53	0.07 galon	0 galon	0.07 galon	0.0049 galon
54	0.06 galon	0 galon	0.06 galon	0.0036 galon
55	0.05 galon	0 galon	0.05 galon	0.0025 galon
56	0.04 galon	0 galon	0.04 galon	0.0016 galon
57	125 galon	125 galon	0 galon	0 galon
58	0.03 galon	0 galon	0.03 galon	0.0009 galon
59	0.03 galon	0 galon	0.03 galon	0.0009 galon
60	0.02 galon	0 galon	0.02 galon	0.0004 galon
61	0.02 galon	0 galon	0.02 galon	0.0004 galon
62	0.02 galon	0 galon	0.02 galon	0.0004 galon
63	0.02 galon	0 galon	0.02 galon	0.0004 galon
64	114 galon	114 galon	0 galon	0 galon
65	0.01 galon	0 galon	0.01 galon	0.0001 galon
66	0.01 galon	0 galon	0.01 galon	0.0001 galon
67	0.008 galon	0 galon	0.008 galon	0.000064 galon
68	0.007 galon	0 galon	0.007 galon	0.000049 galon
69	0.006 galon	0 galon	0.006 galon	0.000036 galon
70	0.005 galon	0 galon	0.005 galon	0.000025 galon
71	114 galon	134 galon	-20 galon	400 galon
72	0 galon	0 galon	0 galon	0 galon
73	0 galon	0 galon	0 galon	0 galon
74	3 galon	0 galon	3 galon	9 galon
75	2 galon	0 galon	2 galon	4 galon
76	2 galon	0 galon	2 galon	4 galon
77	2 galon	0 galon	2 galon	4 galon
78	131 galon	129 galon	2 galon	4 galon
79	1 galon	0 galon	1 galon	1 galon
80	1 galon	0 galon	1 galon	1 galon
81	1 galon	0 galon	1 galon	1 galon
82	0.8 galon	0 galon	0.8 galon	0.64 galon
83	0.7 galon	0 galon	0.7 galon	0.49 galon
84	0.6 galon	0 galon	0.6 galon	0.36 galon
85	119 galon	118 galon	1 galon	1 galon

86	0.5 galon	0 galon	0.5 galon	0.25 galon
87	0.4 galon	0 galon	0.4 galon	0.16 galon
88	0.3 galon	0 galon	0.3 galon	0.09 galon
89	0.3 galon	0 galon	0.3 galon	0.09 galon
90	0.2 galon	0 galon	0.2 galon	0.04 galon
91	0.2 galon	0 galon	0.2 galon	0.04 galon
92	116 galon	120 galon	-4 galon	16 galon

Total periode	Total Output model(xi)	Total output aktual (yi)	Total di=(xi-yi)	Total di <sup>2</sup>
92	1798.886 galon	1813 galon	-14.114 galon	604.2 galon
	d rata-rata	-0.15341304 galon/da		
	sd	2.572076389		
	t (92:0.025)	1.96		
	d+	0.37217566 galon/da		
	d-	-0.67900174 galon/da		

## 2. Pengiriman ke retailer.

Periode	Output Model(xi)	Output aktual (yi)	di=(xi-yi)	di <sup>2</sup>
1	0 galon	130 galon	-130 galon	16900 galon
2	110 galon	0 galon	110 galon	12100 galon
3	0 galon	0 galon	0 galon	0 galon
4	0 galon	0 galon	0 galon	0 galon
5	0 galon	0 galon	0 galon	0 galon
6	0 galon	0 galon	0 galon	0 galon
7	0 galon	0 galon	0 galon	0 galon
8	0 galon	126 galon	-126 galon	15876 galon
9	110 galon	0 galon	110 galon	12100 galon
10	0 galon	0 galon	0 galon	0 galon
11	0 galon	0 galon	0 galon	0 galon
12	0 galon	0 galon	0 galon	0 galon
13	30 galon	0 galon	30 galon	900 galon
14	0 galon	0 galon	0 galon	0 galon
15	0 galon	131 galon	-131 galon	17161 galon
16	146 galon	0 galon	146 galon	21316 galon
17	0 galon	0 galon	0 galon	0 galon
18	0 galon	0 galon	0 galon	0 galon
19	0 galon	0 galon	0 galon	0 galon
20	0 galon	0 galon	0 galon	0 galon
21	0 galon	0 galon	0 galon	0 galon
22	0 galon	149 galon	-149 galon	22201 galon
23	123 galon	0 galon	123 galon	15129 galon

24	0 galon	0 galon	0 galon	0 galon
25	0 galon	0 galon	0 galon	0 galon
26	0 galon	0 galon	0 galon	0 galon
27	0 galon	0 galon	0 galon	0 galon
28	0 galon	0 galon	0 galon	0 galon
29	0 galon	138 galon	-138 galon	19044 galon
30	123 galon	0 galon	123 galon	15129 galon
31	0 galon	0 galon	0 galon	0 galon
32	0 galon	0 galon	0 galon	0 galon
33	0 galon	0 galon	0 galon	0 galon
34	9 galon	0 galon	9 galon	81 galon
35	0 galon	0 galon	0 galon	0 galon
36	0 galon	122 galon	-122 galon	14884 galon
37	137 galon	0 galon	137 galon	18769 galon
38	0 galon	0 galon	0 galon	0 galon
39	0 galon	0 galon	0 galon	0 galon
40	0 galon	0 galon	0 galon	0 galon
41	0 galon	0 galon	0 galon	0 galon
42	0 galon	0 galon	0 galon	0 galon
43	0 galon	125 galon	-125 galon	15625 galon
44	125 galon	0 galon	125 galon	15625 galon
45	0 galon	0 galon	0 galon	0 galon
46	0 galon	0 galon	0 galon	0 galon
47	0 galon	0 galon	0 galon	0 galon
48	0 galon	0 galon	0 galon	0 galon
49	0 galon	0 galon	0 galon	0 galon
50	0 galon	126 galon	-126 galon	15876 galon
51	125 galon	0 galon	125 galon	15625 galon
52	0 galon	0 galon	0 galon	0 galon
53	0 galon	0 galon	0 galon	0 galon
54	0 galon	0 galon	0 galon	0 galon
55	3 galon	0 galon	3 galon	9 galon
56	0 galon	0 galon	0 galon	0 galon
57	0 galon	124 galon	-124 galon	15376 galon
58	123 galon	0 galon	123 galon	15129 galon
59	0 galon	0 galon	0 galon	0 galon
60	0 galon	0 galon	0 galon	0 galon
61	0 galon	0 galon	0 galon	0 galon
62	0 galon	0 galon	0 galon	0 galon
63	0 galon	0 galon	0 galon	0 galon
64	0 galon	112 galon	-112 galon	12544 galon
65	103 galon	0 galon	103 galon	10609 galon
66	0 galon	0 galon	0 galon	0 galon
67	0 galon	0 galon	0 galon	0 galon

68	0 galon	0 galon	0 galon	0 galon
69	0 galon	0 galon	0 galon	0 galon
70	0 galon	0 galon	0 galon	0 galon
71	0 galon	128 galon	-128 galon	16384 galon
72	103 galon	0 galon	103 galon	10609 galon
73	0 galon	0 galon	0 galon	0 galon
74	0 galon	0 galon	0 galon	0 galon
75	0 galon	0 galon	0 galon	0 galon
76	51 galon	0 galon	51 galon	2601 galon
77	0 galon	0 galon	0 galon	0 galon
78	0 galon	117 galon	-117 galon	13689 galon
79	113 galon	0 galon	113 galon	12769 galon
80	0 galon	0 galon	0 galon	0 galon
81	0 galon	0 galon	0 galon	0 galon
82	0 galon	0 galon	0 galon	0 galon
83	0 galon	0 galon	0 galon	0 galon
84	0 galon	0 galon	0 galon	0 galon
85	0 galon	134 galon	-134 galon	17956 galon
86	114 galon	0 galon	114 galon	12996 galon
87	0 galon	0 galon	0 galon	0 galon
88	0 galon	0 galon	0 galon	0 galon
89	0 galon	0 galon	0 galon	0 galon
90	0 galon	0 galon	0 galon	0 galon
91	0 galon	0 galon	0 galon	0 galon
92	0 galon	130 galon	-130 galon	16900 galon

Total periode	Total Output model(xi)	Total output aktual (yi)	Total di=(xi-yi)	Total di <sup>2</sup>
92	1648 galon	1792 galon	-144 galon	421912 galon
	d rata-rata	-1.56521739 galon/da		
	sd	68.07289311		
	t (92;0.025)	1.96		
	d+	12.3450784 galon/da		
	d-	-15.4755132 galon/da		

### 3. Penerimaan dari pabrik

Periode	Output Model(xi)	Output aktual (yi)	di=(xi-yi)	di <sup>2</sup>
1	0 galon	140 galon	-140 galon	19600 galon
2	0 galon	0 galon	0 galon	0 galon
3	0 galon	0 galon	0 galon	0 galon
4	0 galon	0 galon	0 galon	0 galon
5	70 galon	0 galon	70 galon	4900 galon

6	0 galon	0 galon	0 galon	0 galon
7	0 galon	0 galon	0 galon	0 galon
8	0 galon	150 galon	-150 galon	22500 galon
9	0 galon	0 galon	0 galon	0 galon
10	0 galon	0 galon	0 galon	0 galon
11	0 galon	0 galon	0 galon	0 galon
12	170 galon	0 galon	170 galon	28900 galon
13	60 galon	0 galon	60 galon	3600 galon
14	60 galon	0 galon	60 galon	3600 galon
15	60 galon	100 galon	-40 galon	1600 galon
16	0 galon	0 galon	0 galon	0 galon
17	0 galon	0 galon	0 galon	0 galon
18	0 galon	0 galon	0 galon	0 galon
19	0 galon	0 galon	0 galon	0 galon
20	0 galon	0 galon	0 galon	0 galon
21	0 galon	0 galon	0 galon	0 galon
22	0 galon	150 galon	-150 galon	22500 galon
23	0 galon	0 galon	0 galon	0 galon
24	0 galon	0 galon	0 galon	0 galon
25	0 galon	0 galon	0 galon	0 galon
26	72 galon	0 galon	72 galon	5184 galon
27	0 galon	0 galon	0 galon	0 galon
28	0 galon	0 galon	0 galon	0 galon
29	0 galon	130 galon	-130 galon	16900 galon
30	0 galon	0 galon	0 galon	0 galon
31	0 galon	0 galon	0 galon	0 galon
32	0 galon	0 galon	0 galon	0 galon
33	140 galon	0 galon	140 galon	19600 galon
34	17 galon	0 galon	17 galon	289 galon
35	17 galon	0 galon	17 galon	289 galon
36	17 galon	130 galon	-113 galon	12769 galon
37	0 galon	0 galon	0 galon	0 galon
38	0 galon	0 galon	0 galon	0 galon
39	0 galon	0 galon	0 galon	0 galon
40	92 galon	0 galon	92 galon	8464 galon
41	0 galon	0 galon	0 galon	0 galon
42	0 galon	0 galon	0 galon	0 galon
43	0 galon	150 galon	-150 galon	22500 galon
44	0 galon	0 galon	0 galon	0 galon
45	0 galon	0 galon	0 galon	0 galon
46	0 galon	0 galon	0 galon	0 galon
47	112 galon	0 galon	112 galon	12544 galon
48	0 galon	0 galon	0 galon	0 galon
49	0 galon	0 galon	0 galon	0 galon

50	0 galon	150 galon	-150 galon	22500 galon
51	0 galon	0 galon	0 galon	0 galon
52	0 galon	0 galon	0 galon	0 galon
53	0 galon	0 galon	0 galon	0 galon
54	130 galon	0 galon	130 galon	16900 galon
55	6 galon	0 galon	6 galon	36 galon
56	6 galon	0 galon	6 galon	36 galon
57	6 galon	100 galon	-94 galon	8836 galon
58	0 galon	0 galon	0 galon	0 galon
59	0 galon	0 galon	0 galon	0 galon
60	0 galon	0 galon	0 galon	0 galon
61	100 galon	0 galon	100 galon	10000 galon
62	0 galon	0 galon	0 galon	0 galon
63	0 galon	0 galon	0 galon	0 galon
64	0 galon	120 galon	-120 galon	14400 galon
65	0 galon	0 galon	0 galon	0 galon
66	0 galon	0 galon	0 galon	0 galon
67	0 galon	0 galon	0 galon	0 galon
68	84 galon	0 galon	84 galon	7056 galon
69	0 galon	0 galon	0 galon	0 galon
70	0 galon	0 galon	0 galon	0 galon
71	0 galon	120 galon	-120 galon	14400 galon
72	0 galon	0 galon	0 galon	0 galon
73	0 galon	0 galon	0 galon	0 galon
74	0 galon	0 galon	0 galon	0 galon
75	205 galon	0 galon	205 galon	42025 galon
76	102 galon	0 galon	102 galon	10404 galon
77	102 galon	0 galon	102 galon	10404 galon
78	102 galon	100 galon	2 galon	4 galon
79	0 galon	0 galon	0 galon	0 galon
80	0 galon	0 galon	0 galon	0 galon
81	0 galon	0 galon	0 galon	0 galon
82	0 galon	0 galon	0 galon	0 galon
83	0 galon	0 galon	0 galon	0 galon
84	0 galon	0 galon	0 galon	0 galon
85	0 galon	150 galon	-150 galon	22500 galon
86	0 galon	0 galon	0 galon	0 galon
87	0 galon	0 galon	0 galon	0 galon
88	0 galon	0 galon	0 galon	0 galon
89	0 galon	0 galon	0 galon	0 galon
90	0 galon	0 galon	0 galon	0 galon
91	0 galon	0 galon	0 galon	0 galon
92	0 galon	140 galon	-140 galon	19600 galon



Total periode	Total Output model(xi)	Total output aktual (yi)	Total di=(xi-yi)	Total di <sup>2</sup>
92	1730 galon	1830 galon	-100 galon	404840 galon
	d rata-rata	-1.08695652 galon/da		
	sd	66.69030478		
	t (92;0.025)	1.96		
	d+	12.5408155 galon/da		
	d-	-14.7147285 galon/da		

#### 4. Pesanan Ke Pabrik

Periode	Output Model(xi)	Output aktual (yi)	di=(xi-yi)	di <sup>2</sup>
1	0 galon	140 galon	-140 galon	19600 galon
2	70 galon	0 galon	70 galon	4900 galon
3	0 galon	0 galon	0 galon	0 galon
4	0 galon	0 galon	0 galon	0 galon
5	0 galon	0 galon	0 galon	0 galon
6	0 galon	0 galon	0 galon	0 galon
7	0 galon	0 galon	0 galon	0 galon
8	0 galon	150 galon	-150 galon	22500 galon
9	170 galon	0 galon	170 galon	28900 galon
10	60 galon	0 galon	60 galon	3600 galon
11	60 galon	0 galon	60 galon	3600 galon
12	60 galon	0 galon	60 galon	3600 galon
13	0 galon	0 galon	0 galon	0 galon
14	0 galon	0 galon	0 galon	0 galon
15	0 galon	100 galon	-100 galon	10000 galon
16	0 galon	0 galon	0 galon	0 galon
17	0 galon	0 galon	0 galon	0 galon
18	0 galon	0 galon	0 galon	0 galon
19	0 galon	0 galon	0 galon	0 galon
20	0 galon	0 galon	0 galon	0 galon
21	0 galon	0 galon	0 galon	0 galon
22	0 galon	150 galon	-150 galon	22500 galon
23	72 galon	0 galon	72 galon	5184 galon
24	0 galon	0 galon	0 galon	0 galon
25	0 galon	0 galon	0 galon	0 galon
26	0 galon	0 galon	0 galon	0 galon
27	0 galon	0 galon	0 galon	0 galon
28	0 galon	0 galon	0 galon	0 galon
29	0 galon	130 galon	-130 galon	16900 galon
30	140 galon	0 galon	140 galon	19600 galon
31	17 galon	0 galon	17 galon	289 galon
32	17 galon	0 galon	17 galon	289 galon

33	17 galon	0 galon	17 galon	289 galon
34	0 galon	0 galon	0 galon	0 galon
35	0 galon	0 galon	0 galon	0 galon
36	0 galon	130 galon	-130 galon	16900 galon
37	92 galon	0 galon	92 galon	8464 galon
38	0 galon	0 galon	0 galon	0 galon
39	0 galon	0 galon	0 galon	0 galon
40	0 galon	0 galon	0 galon	0 galon
41	0 galon	0 galon	0 galon	0 galon
42	0 galon	0 galon	0 galon	0 galon
43	0 galon	150 galon	-150 galon	22500 galon
44	112 galon	0 galon	112 galon	12544 galon
45	0 galon	0 galon	0 galon	0 galon
46	0 galon	0 galon	0 galon	0 galon
47	0 galon	0 galon	0 galon	0 galon
48	0 galon	0 galon	0 galon	0 galon
49	0 galon	0 galon	0 galon	0 galon
50	0 galon	150 galon	-150 galon	22500 galon
51	130 galon	0 galon	130 galon	16900 galon
52	6 galon	0 galon	6 galon	36 galon
53	6 galon	0 galon	6 galon	36 galon
54	6 galon	0 galon	6 galon	36 galon
55	0 galon	0 galon	0 galon	0 galon
56	0 galon	0 galon	0 galon	0 galon
57	0 galon	100 galon	-100 galon	10000 galon
58	100 galon	0 galon	100 galon	10000 galon
59	0 galon	0 galon	0 galon	0 galon
60	0 galon	0 galon	0 galon	0 galon
61	0 galon	0 galon	0 galon	0 galon
62	0 galon	0 galon	0 galon	0 galon
63	0 galon	0 galon	0 galon	0 galon
64	0 galon	120 galon	-120 galon	14400 galon
65	84 galon	0 galon	84 galon	7056 galon
66	0 galon	0 galon	0 galon	0 galon
67	0 galon	0 galon	0 galon	0 galon
68	0 galon	0 galon	0 galon	0 galon
69	0 galon	0 galon	0 galon	0 galon
70	0 galon	0 galon	0 galon	0 galon
71	0 galon	120 galon	-120 galon	14400 galon
72	205 galon	0 galon	205 galon	42025 galon
73	102 galon	0 galon	102 galon	10404 galon
74	102 galon	0 galon	102 galon	10404 galon
75	102 galon	0 galon	102 galon	10404 galon
76	0 galon	0 galon	0 galon	0 galon

77	0 galon	0 galon	0 galon	0 galon
78	0 galon	100 galon	-100 galon	10000 galon
79	0 galon	0 galon	0 galon	0 galon
80	0 galon	0 galon	0 galon	0 galon
81	0 galon	0 galon	0 galon	0 galon
82	0 galon	0 galon	0 galon	0 galon
83	0 galon	0 galon	0 galon	0 galon
84	0 galon	0 galon	0 galon	0 galon
85	0 galon	150 galon	-150 galon	22500 galon
86	0 galon	0 galon	0 galon	0 galon
87	0 galon	0 galon	0 galon	0 galon
88	0 galon	0 galon	0 galon	0 galon
89	0 galon	0 galon	0 galon	0 galon
90	0 galon	0 galon	0 galon	0 galon
91	0 galon	0 galon	0 galon	0 galon
92	0 galon	140 galon	-140 galon	19600 galon

Total periode	Total Output model(xi)	Total output aktual (yi)	Total di=(xi-yi)	Total di <sup>2</sup>
92	1730 galon	1830 galon	-100 galon	442860 galon
	d rata-rata	-1.08695652 galon/da		
	sd	69.75241178		
	t (92;0.025)	1.96		
	d+	13.1665391 galon/da		
	d-	-15.3404521 galon/da		

### 5. Pesanan Ke Distributor

Periode	Output Model(xi)	Output aktual (yi)	di=(xi-yi)	di <sup>2</sup>
1	110 galon	120 galon	-10 galon	100 galon
2	0 galon	0 galon	0 galon	0 galon
3	0 galon	0 galon	0 galon	0 galon
4	0 galon	0 galon	0 galon	0 galon
5	0 galon	0 galon	0 galon	0 galon
6	0 galon	0 galon	0 galon	0 galon
7	0 galon	0 galon	0 galon	0 galon
8	140 galon	126 galon	14 galon	196 galon
9	0 galon	0 galon	0 galon	0 galon
10	0 galon	0 galon	0 galon	0 galon
11	0 galon	0 galon	0 galon	0 galon
12	0 galon	0 galon	0 galon	0 galon
13	0 galon	0 galon	0 galon	0 galon
14	0 galon	0 galon	0 galon	0 galon

15	146 galon	131 galon	15 galon	225 galon
16	0 galon	0 galon	0 galon	0 galon
17	0 galon	0 galon	0 galon	0 galon
18	0 galon	0 galon	0 galon	0 galon
19	0 galon	0 galon	0 galon	0 galon
20	0 galon	0 galon	0 galon	0 galon
21	0 galon	0 galon	0 galon	0 galon
22	123 galon	149 galon	-26 galon	676 galon
23	0 galon	0 galon	0 galon	0 galon
24	0 galon	0 galon	0 galon	0 galon
25	0 galon	0 galon	0 galon	0 galon
26	0 galon	0 galon	0 galon	0 galon
27	0 galon	0 galon	0 galon	0 galon
28	0 galon	0 galon	0 galon	0 galon
29	131 galon	138 galon	-7 galon	49 galon
30	0 galon	0 galon	0 galon	0 galon
31	0 galon	0 galon	0 galon	0 galon
32	0 galon	0 galon	0 galon	0 galon
33	0 galon	0 galon	0 galon	0 galon
34	0 galon	0 galon	0 galon	0 galon
35	0 galon	0 galon	0 galon	0 galon
36	137 galon	122 galon	15 galon	225 galon
37	0 galon	0 galon	0 galon	0 galon
38	0 galon	0 galon	0 galon	0 galon
39	0 galon	0 galon	0 galon	0 galon
40	0 galon	0 galon	0 galon	0 galon
41	0 galon	0 galon	0 galon	0 galon
42	0 galon	0 galon	0 galon	0 galon
43	125 galon	125 galon	0 galon	0 galon
44	0 galon	0 galon	0 galon	0 galon
45	0 galon	0 galon	0 galon	0 galon
46	0 galon	0 galon	0 galon	0 galon
47	0 galon	0 galon	0 galon	0 galon
48	0 galon	0 galon	0 galon	0 galon
49	0 galon	0 galon	0 galon	0 galon
50	128 galon	126 galon	2 galon	4 galon
51	0 galon	0 galon	0 galon	0 galon
52	0 galon	0 galon	0 galon	0 galon
53	0 galon	0 galon	0 galon	0 galon
54	0 galon	0 galon	0 galon	0 galon
55	0 galon	0 galon	0 galon	0 galon
56	0 galon	0 galon	0 galon	0 galon
57	123 galon	124 galon	-1 galon	1 galon
58	0 galon	0 galon	0 galon	0 galon

59	0 galon	0 galon	0 galon	0 galon
60	0 galon	0 galon	0 galon	0 galon
61	0 galon	0 galon	0 galon	0 galon
62	0 galon	0 galon	0 galon	0 galon
63	0 galon	0 galon	0 galon	0 galon
64	103 galon	112 galon	-9 galon	81 galon
65	0 galon	0 galon	0 galon	0 galon
66	0 galon	0 galon	0 galon	0 galon
67	0 galon	0 galon	0 galon	0 galon
68	0 galon	0 galon	0 galon	0 galon
69	0 galon	0 galon	0 galon	0 galon
70	0 galon	0 galon	0 galon	0 galon
71	154 galon	128 galon	26 galon	676 galon
72	0 galon	0 galon	0 galon	0 galon
73	0 galon	0 galon	0 galon	0 galon
74	0 galon	0 galon	0 galon	0 galon
75	0 galon	0 galon	0 galon	0 galon
76	0 galon	0 galon	0 galon	0 galon
77	0 galon	0 galon	0 galon	0 galon
78	113 galon	117 galon	-4 galon	16 galon
79	0 galon	0 galon	0 galon	0 galon
80	0 galon	0 galon	0 galon	0 galon
81	0 galon	0 galon	0 galon	0 galon
82	0 galon	0 galon	0 galon	0 galon
83	0 galon	0 galon	0 galon	0 galon
84	0 galon	0 galon	0 galon	0 galon
85	114 galon	134 galon	-20 galon	400 galon
86	0 galon	0 galon	0 galon	0 galon
87	0 galon	0 galon	0 galon	0 galon
88	0 galon	0 galon	0 galon	0 galon
89	0 galon	0 galon	0 galon	0 galon
90	0 galon	0 galon	0 galon	0 galon
91	0 galon	0 galon	0 galon	0 galon
92	134 galon	140 galon	-6 galon	36 galon

Total periode	Total Output model(xi)	Total output aktual (yi)	Total di=(xi-yi)	Total di <sup>2</sup>
92	1781 galon	1792 galon	-11 galon	2685 galon
	d rata-rata	-0.11956522 galon/da		
	sd	5.430565492		
	t (92;0.025)	1.96		
	d+	0.99013894 galon/da		
	d-	-1.22926938 galon/da		



**LAMPIRAN**

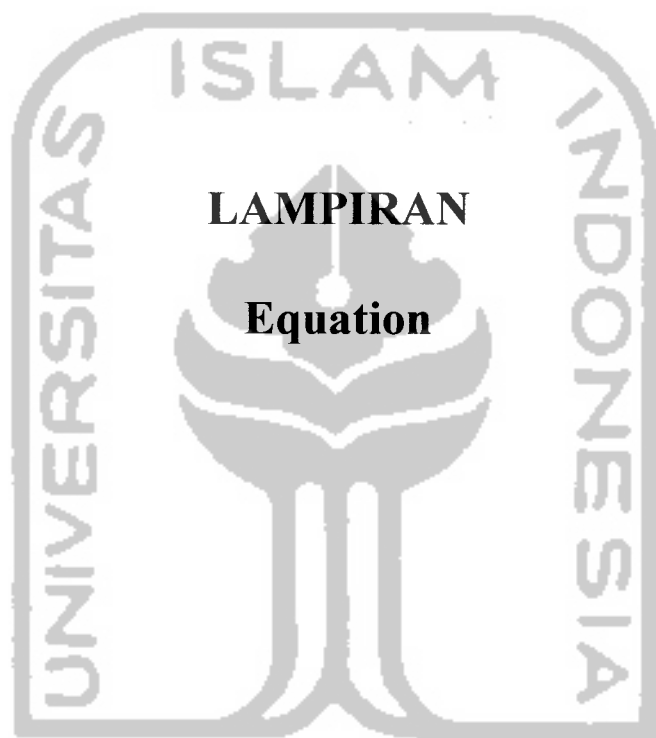
**Deskripsi Variabel-variabel Dalam**  
*Model Boundary Diagram*

Variabel	Definisi
<b><i>Endogenous factors</i></b>	
<i>Penjualan Ke Konsumen Akhir</i>	Tingkat pemenuhan permintaan konsumen akhir melalui penjualan produk
<i>Pengiriman Ke Retailer</i>	Pengiriman/penjualan produk akhir ke retailer
<i>Backlog Di Retailer</i>	Permintaan pelanggan yang belum berhasil dipenuhi dan akan dipenuhi oleh retailer
<i>Backlog Di Distributor</i>	Permintaan pelanggan yang belum berhasil dipenuhi dan akan dipenuhi oleh distributor
<i>Penjualan Ke Konsumen Akhir Yang Diharapkan</i>	Penjualan produk akhir yang diinginkan pihak retailer
<i>Pengiriman Ke Retailer Yang Diharapkan</i>	Pengiriman produk akhir yang diinginkan pihak distributor
<i>Penjualan Maximum Ke Konsumen Akhir</i>	Jumlah maksimal penjualan produk akhir yang dapat dilakukan retailer karena keterbatasan jumlah produk yang ada
<i>Pengiriman Maximum Ke Retailer</i>	Jumlah maksimal penjualan produk akhir yang dapat dilakukan distributor karena keterbatasan jumlah produk yang ada
<i>Persediaan Aktual Retailer</i>	Jumlah persediaan produk yang ada di retailer
<i>Persediaan Aktual Distributor</i>	Jumlah persediaan produk yang ada di distributor
<i>Persediaan Retailer Yang Diharapkan</i>	Persediaan produk yang diinginkan retailer untuk menanggulangi permintaan pelanggan
<i>Persediaan Distributor Yang Diharapkan</i>	Persediaan produk yang diinginkan distributor untuk menanggulangi permintaan pelanggan
<i>Penyesuaian Persediaan Retailer</i>	Perbedaan antara tingkat persediaan produk aktual dengan persediaan yang diinginkan pada retailer
<i>Penyesuaian Persediaan</i>	Perbedaan antara tingkat persediaan produk

<i>Distributor</i>	aktual dengan persediaan yang diinginkan pada distributor
<i>Order Rate Ke Retailer</i>	Jumlah pesanan yang diterima retailer berdasarkan permintaan dari konsumen akhir
<i>Order Rate Ke Distributor</i>	Jumlah pesanan yang diterima distributor berdasarkan permintaan dari retailer
<i>Penerimaan Dari Distributor</i>	Jumlah produk yang diterima retailer dengan lead time dari distributor
<i>Penerimaan Dari Pabrik</i>	Jumlah produk yang diterima distributor dengan lead time dari pabrik
<i>Exogenous factors</i>	
<i>Permintaan Konsumen Akhir</i>	Permintaan konsumen akhir dengan jumlah tertentu
<i>delay informasi</i>	Lamanya informasi mengenai permintaan pelanggan sampai pada distributor
<i>safety stock retailer</i>	Stok pengaman pada retailer untuk memenuhi permintaan pelanggan
<i>safety stock distributor</i>	Stok pengaman pada distributor untuk memenuhi permintaan pelanggan
<i>lead time dari pabrik</i>	Lamanya waktu pengiriman bahan baku dari pabrik
<i>lead time dari distributor</i>	Lamanya waktu pengiriman bahan baku dari distributor
<i>Waktu Penyesuaian Persediaan Retailer</i>	Waktu yang diperlukan untuk menyesuaikan perbedaan antara tingkat persediaan produk aktual dengan persediaan yang diinginkan pada retailer
<i>Waktu Penyesuaian Persediaan Distributor</i>	Waktu yang diperlukan untuk menyesuaikan perbedaan antara tingkat persediaan produk



	aktual dengan persediaan yang diinginkan pada distributor
<b><i>Excluded factors</i></b>	
<i>Kondisi Pasar</i>	Kondisi pasar mempengaruhi harga produk yang ada, tetapi sangat sulit untuk mendefinisikannya dalam model
<i>Pemasaran</i>	Perusahaan mempunyai program pemasaran untuk mencari pelanggan baru, sangat sulit untuk mendapatkan pelanggan baru, walaupun ada spesifikasi permintaan akan berbeda dengan apa yang diproduksi pada waktu tersebut
<i>Produktivitas</i>	Di distributor, produktivitas tidak dimasukkan karena jumlah tenaga kerja yang ada tidak sebanyak yang ada di pabrik.
Transportasi	Transportasi masuk sebagai excluded karena semua pengiriman dianggap lancar dan sesuai dengan pesanan.
Produksi	Kemampuan pabrik untuk menghasilkan produk jadi dengan sumber daya yang ada. Mata rantai penelitian hanya seputar distributor dan retailer sehingga kapasitas produksi tidak masuk dalam model.



**LAMPIRAN**

**Equation**

وَمَا يَكْفُرُ بِاللَّهِ إِلَّا جَاهِلُونَ

```

mainmodel Component 1 {
  level Backlog Di Distributor {
    reservoir
    autotype Real
    unit galon
    init 0
    inflow { autodef 'Order Rate Ke Distributor' }
    outflow { autodef 'Pemenuhan Order Ke Retailer' }
  }
  level Backlog Di Retailer {
    reservoir
    autotype Real
    unit galon
    init 0
    inflow { autodef 'Order Rate Ke Retailer' }
    outflow { autodef 'Pemenuhan Order Ke Konsumen Akhir' }
  }
  level biaya backlog distributor {
    autotype Real
    unit rupiah
    init INIT('biaya backlog harian didistributor'*1<<da>>)
    inflow { autodef 'biaya backlog harian didistributor' }
  }
  aux biaya backlog harian didistributor {
    autotype Real
    autounit rupiah/da
    def ('Backlog Di Distributor'*biaya backlog per unit didistributor')*1/1<<da>>
  }
  const biaya backlog per unit didistributor {
    autotype Real
    unit rupiah/galon
    init 1000
  }
  level biaya pesan {
    autotype Real
    unit rupiah
    init 'biaya pesan harian'*1<<da>>
    inflow { autodef 'biaya pesan harian' }
  }
  aux biaya pesan harian {
    autotype Real
    autounit rupiah/da
    def ('biaya pesan per release order'*frekuensi order)*1/1<<da>>
  }
  const biaya pesan per release order {
    autotype Real
    unit rupiah/order
    init 10000
  }
  level biaya simpan {
    autotype Real
    unit rupiah
    init INIT('biaya simpan harian'*1<<da>>)
    inflow { autodef 'biaya simpan harian' }
  }
  aux biaya simpan harian {
    autotype Real
    unit rupiah/da
    def ('Persediaan Aktual Distributor'*biaya simpan per unit per hari)*1/1<<da>>
  }
  const biaya simpan per unit per hari {
    autotype Real
    unit rupiah/galon
    init 2.11
  }
}

```

```

level biaya total {
  autotype Real
  unit rupiah
  init INIT(Jumlah*1<<da>>)
  inflow { autodef Jumlah }
}
const delay informasi {
  autotype Real
  unit da
  init 1
}
aux frekuensi order {
  autotype Real
  unit order
  def IF('Pesanan Ke Pabrik'=0<<galon/da>>,0<<order>>,1<<order>>)
}
aux Jumlah {
  autotype Real
  autounit rupiah/da
  def 'biaya pesan harian'+biaya simpan harian'+biaya backlog harian didistributor'
}
const Lead Time Dari Distributor {
  autotype Real
  unit da
  init 1
  doc Number of weeks it takes to receive materials for which orders are placed.
}
const Lead Time Dari Pabrik {
  autotype Real
  unit da
  init 3
}
aux Order Rate Ke Distributor {
  autotype Real
  unit galon/da
  def DELAYPPL('Pesanan Ke Distributor','delay informasi',0<<galon/da>>)
}
aux Order Rate Ke Retailer {
  autotype Real
  unit galon/da
  def 'Permintaan Konsumen Akhir'
}
aux Pemenuhan Order Ke Konsumen Akhir {
  autotype Real
  unit galon/da
  def 'Penjualan Ke Konsumen Akhir'
}
aux Pemenuhan Order Ke Retailer {
  autotype Real
  unit galon/da
  def 'Pengiriman Ke Retailer'
}
aux Penerimaan Dari Distributor {
  autotype Real
  autounit galon/da
  def DELAYPPL('Pengiriman Ke Retailer','Lead Time Dari Distributor',0<<galon/da>>)
}
aux Penerimaan Dari Pabrik {
  autotype Real
  unit galon/da
  def DELAYPPL('Pesanan Ke Pabrik','Lead Time Dari Pabrik',0<<galon/da>>)
}
aux Pengiriman Ke Retailer {
  autotype Real
  unit galon/da
}

```

```

    def MIN('Pengiriman Maximum Ke Retailer','Pengiriman KeRetailer Yg Diharapkan')
}
aux Pengiriman KeRetailer Yg Diharapkan {
    autotype Real
    autounit galon/da
    def 'Backlog Di Distributor'*1/1<<da>>+'Order Rate Ke Distributor'
}
aux Pengiriman Maximum Ke Retailer {
    autotype Real
    unit galon/da
    def 'Persediaan Aktual Distributor'/1<<da>>
}
aux Penjualan Ke Konsumen Akhir {
    autotype Real
    unit galon/da
    def MIN('Penjualan Maximum Ke Konsumen Akhir','Penjualan Ke Konsumen Akhir Yang Diharapkan')
}
aux Penjualan Ke Konsumen Akhir Yang Diharapkan {
    autotype Real
    unit galon/da
    def 'Backlog Di Retailer'/1<<wk>>+'Order Rate Ke Retailer'
}
aux Penjualan Maximum Ke Konsumen Akhir {
    autotype Real
    unit galon/da
    def 'Persediaan Aktual Retailer'/1<<da>>
}
aux Penyesuaian Persediaan Distributor {
    autotype Real
    unit galon/da
    def ( 'Persediaan Distributor Yang Diharapkan' - 'Persediaan Aktual Distributor' ) / 'Waktu Penyesuaian
        Persediaan Distributor'
}
aux Penyesuaian Persediaan Retailer {
    autotype Real
    unit galon/da
    def ( 'Persediaan Retailer Yang Diharapkan' - 'Persediaan Aktual Retailer' ) / 'Waktu Penyesuaian
        Persediaan Retailer'
    doc The difference between desired and actual inventory.
}
aux Permintaan Konsumen Akhir {
    type Real
    unit galon/da
    def 0
}
level Persediaan Aktual Distributor {
    reservoir
    autotype Real
    unit galon
    init INIT(150<<galon>>)
    inflow { autodef 'Penerimaan Dari Pabrik' }
    outflow { autodef 'Pengiriman Ke Retailer' }
}
level Persediaan Aktual Retailer {
    reservoir
    autotype Real
    unit galon
    init INIT(150<<galon>>)
    outflow { autodef 'Penjualan Ke Konsumen Akhir' }
    inflow { autodef 'Penerimaan Dari Distributor' }
}
aux Persediaan Distributor Yang Diharapkan {
    autotype Real
    unit galon
    def 'Pengiriman KeRetailer Yg Diharapkan'* 'Safety Stock Distributor'
}

```

```

}
aux Persediaan Retailer Yang Diharapkan {
  autotype Real
  unit galon
  def 'Permintaan Konsumen Akhir' * 'Safety Stock Retailer'
  doc The desired level of inventory to be maintained.
}
aux Pesanan Ke Distributor {
  autotype Real
  unit galon/da
  def MAX(0<<galon/da>>,'Penyesuaian Persediaan Retailer')
}
aux Pesanan Ke Pabrik {
  autotype Real
  unit galon/da
  def MAX(0<<galon/da>>,'Penyesuaian Persediaan Distributor')
}
const Safety Stock Distributor {
  autotype Real
  unit da
  init 2
  doc Number of days supply that the Inventory should be able to cover.
}
const Safety Stock Retailer {
  autotype Real
  unit da
  init 2<<da>>
  doc Number of days supply that the Inventory should be able to cover.
}
const Waktu Penyesuaian Persediaan Distributor {
  autotype Real
  unit da
  init 1
}
const Waktu Penyesuaian Persediaan Retailer {
  autotype Real
  unit da
  init 1
}
}
unit galon {
  def ATOMIC
}
unit order {
  def ATOMIC
}
unit rupiah {
  def ATOMIC
}
unit rupiah/galon/da {
  def ATOMIC
}
}

```





**LAMPIRAN**  
**Output Model Awal**

Time	Pesanan Ke Pabrik (galon/da)	Penerimaan Dari Pabrik (galon/da)	Persediaan Aktual Distributor (galon)	Pengiriman Ke Retailer (galon/da)	Backlog Di Distributor (galon)
4/1/2007	0	0	150	0	0
4/2/2007	70	0	150	110	0
4/3/2007	0	0	40	0	0
4/4/2007	0	0	40	0	0
4/5/2007	0	70	40	0	0
4/6/2007	0	0	110	0	0
4/7/2007	0	0	110	0	0
4/8/2007	0	0	110	0	0
4/9/2007	170	0	110	110	0
4/10/2007	60	0	0	0	30
4/11/2007	60	0	0	0	30
4/12/2007	60	170	0	0	30
4/13/2007	0	60	170	30	30
4/14/2007	0	60	200	0	0
4/15/2007	0	60	260	0	0
4/16/2007	0	0	320	146	0
4/17/2007	0	0	174	0	0
4/18/2007	0	0	174	0	0
4/19/2007	0	0	174	0	0
4/20/2007	0	0	174	0	0
4/21/2007	0	0	174	0	0
4/22/2007	0	0	174	0	0
4/23/2007	72	0	174	123	0
4/24/2007	0	0	51	0	0
4/25/2007	0	0	51	0	0
4/26/2007	0	72	51	0	0
4/27/2007	0	0	123	0	0
4/28/2007	0	0	123	0	0
4/29/2007	0	0	123	0	0
4/30/2007	140	0	123	123	0
5/1/2007	17	0	0	0	9
5/2/2007	17	0	0	0	9
5/3/2007	17	140	0	0	9
5/4/2007	0	17	140	9	9
5/5/2007	0	17	149	0	0
5/6/2007	0	17	166	0	0
5/7/2007	92	0	183	137	0
5/8/2007	0	0	46	0	0
5/9/2007	0	0	46	0	0
5/10/2007	0	92	46	0	0
5/11/2007	0	0	137	0	0



5/12/2007	0	0	137	0	0	0
5/13/2007	0	0	137	0	0	0
5/14/2007	112	0	137	125	0	0
5/15/2007	0	0	13	0	0	0
5/16/2007	0	0	13	0	0	0
5/17/2007	0	112	13	0	0	0
5/18/2007	0	0	125	0	0	0
5/19/2007	0	0	125	0	0	0
5/20/2007	0	0	125	0	0	0
5/21/2007	130	0	125	125	0	0
5/22/2007	6	0	0	0	3	3
5/23/2007	6	0	0	0	0	3
5/24/2007	6	130	0	0	0	3
5/25/2007	0	6	130	3	0	3
5/26/2007	0	6	133	0	0	0
5/27/2007	0	6	139	0	0	0
5/28/2007	100	0	145	123	0	0
5/29/2007	0	0	22	0	0	0
5/30/2007	0	0	22	0	0	0
5/31/2007	0	100	22	0	0	0
6/1/2007	0	0	123	0	0	0
6/2/2007	0	0	123	0	0	0
6/3/2007	0	0	123	0	0	0
6/4/2007	84	0	123	103	0	0
6/5/2007	0	0	19	0	0	0
6/6/2007	0	0	19	0	0	0
6/7/2007	0	84	19	0	0	0
6/8/2007	0	0	103	0	0	0
6/9/2007	0	0	103	0	0	0
6/10/2007	0	0	103	0	0	0
6/11/2007	205	0	103	103	0	0
6/12/2007	102	0	0	0	51	51
6/13/2007	102	0	0	0	51	51
6/14/2007	102	205	0	0	51	51
6/15/2007	0	102	205	51	51	51
6/16/2007	0	102	256	0	0	0
6/17/2007	0	102	358	0	0	0
6/18/2007	0	0	459	113	0	0
6/19/2007	0	0	346	0	0	0
6/20/2007	0	0	346	0	0	0
6/21/2007	0	0	346	0	0	0
6/22/2007	0	0	346	0	0	0
6/23/2007	0	0	346	0	0	0



Time	Pesanan Ke Distributor (galon/da)	Penerimaan Dari Distributor (galon/da)	Persediaan Aktual Retailer (galon)	Penjualan Ke Konsumen Akhir (galon/da)	Backlog Di Retailer (galon)
4/1/2007	110	0	150	130	0
4/2/2007	0	0	20	0	0
4/3/2007	0	110	20	0	0
4/4/2007	0	0	130	0	0
4/5/2007	0	0	130	0	0
4/6/2007	0	0	130	0	0
4/7/2007	0	0	130	0	0
4/8/2007	140	0	130	130	0
4/9/2007	0	0	0	0	5
4/10/2007	0	110	0	0	5
4/11/2007	0	0	110	7e-1	5
4/12/2007	0	0	109	6e-1	4
4/13/2007	0	0	109	5e-1	4
4/14/2007	0	30	108	4e-1	3
4/15/2007	146	0	138	138	3
4/16/2007	0	0	0	0	7
4/17/2007	0	146	0	0	7
4/18/2007	0	0	146	1	7
4/19/2007	0	0	145	9e-1	6
4/20/2007	0	0	144	7e-1	5
4/21/2007	0	0	144	6e-1	4
4/22/2007	123	0	143	134	4
4/23/2007	0	0	10	5e-1	3
4/24/2007	0	123	9	4e-1	3
4/25/2007	0	0	132	3e-1	2
4/26/2007	0	0	131	3e-1	2
4/27/2007	0	0	131	2e-1	2
4/28/2007	0	0	131	2e-1	1
4/29/2007	131	0	131	131	1
4/30/2007	0	0	0	0	2
5/1/2007	0	123	0	0	2
5/2/2007	0	0	123	3e-1	2
5/3/2007	0	0	123	2e-1	2
5/4/2007	0	0	122	2e-1	1
5/5/2007	0	9	122	2e-1	1
5/6/2007	137	0	131	131	1
5/7/2007	0	0	0	0	4
5/8/2007	0	137	0	0	4
5/9/2007	0	0	137	6e-1	4
5/10/2007	0	0	137	5e-1	4
5/11/2007	0	0	136	4e-1	3

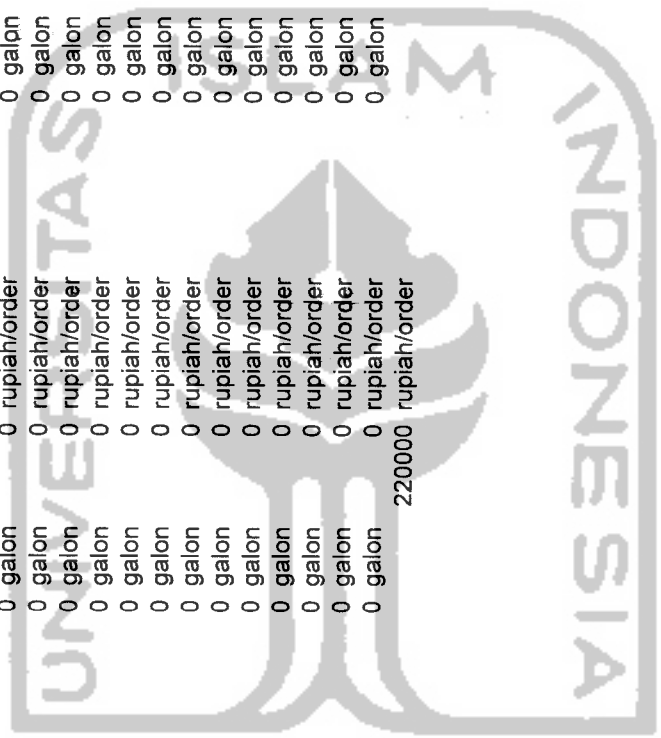
5/12/2007	0	0	0	136	4e-1	3
5/13/2007	125	0	0	135	130	2
5/14/2007	0	0	0	5	3e-1	2
5/15/2007	0	125	0	5	2e-1	2
5/16/2007	0	0	0	129	2e-1	1
5/17/2007	0	0	0	129	2e-1	1
5/18/2007	0	0	0	129	2e-1	1
5/19/2007	0	0	0	129	1e-1	9e-1
5/20/2007	128	0	0	128	128	8e-1
5/21/2007	0	0	0	4e-1	1e-1	7e-1
5/22/2007	0	125	0	3e-1	8e-2	6e-1
5/23/2007	0	0	0	125	7e-2	5e-1
5/24/2007	0	0	0	125	6e-2	4e-1
5/25/2007	0	0	0	125	5e-2	4e-1
5/26/2007	0	3	0	125	4e-2	3e-1
5/27/2007	123	0	0	127	125	3e-1
5/28/2007	0	0	0	2	3e-2	2e-1
5/29/2007	0	123	0	2	3e-2	2e-1
5/30/2007	0	0	0	125	2e-2	2e-1
5/31/2007	0	0	0	125	2e-2	1e-1
6/1/2007	0	0	0	125	2e-2	1e-1
6/2/2007	0	0	0	125	2e-2	1e-1
6/3/2007	103	0	0	125	114	9e-2
6/4/2007	0	0	0	11	1e-2	8e-2
6/5/2007	0	103	0	11	1e-2	7e-2
6/6/2007	0	0	0	114	8e-3	6e-2
6/7/2007	0	0	0	114	7e-3	5e-2
6/8/2007	0	0	0	114	6e-3	4e-2
6/9/2007	0	0	0	114	5e-3	4e-2
6/10/2007	154	0	0	114	114	3e-2
6/11/2007	0	0	0	0	0	20
6/12/2007	0	103	0	0	0	20
6/13/2007	0	0	0	103	3	20
6/14/2007	0	0	0	100	2	17
6/15/2007	0	0	0	98	2	15
6/16/2007	0	51	0	96	2	13
6/17/2007	113	0	0	145	131	11
6/18/2007	0	0	0	14	1	9
6/19/2007	0	113	0	13	1	8
6/20/2007	0	0	0	125	1	7
6/21/2007	0	0	0	124	8e-1	6
6/22/2007	0	0	0	123	7e-1	5
6/23/2007	0	0	0	122	6e-1	4



Tgl/Bln	Persediaan Distributor	Biaya Simpan	Pesanan Ke Pabrik	Biaya Pesan	Backlog Di Distributor	Biaya Backlog
1/4	150 galon	316.5 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
2/4	150 galon	316.5 rupiah/galon	70 galon	10000 rupiah/order	0 galon	0 rupiah/galon
3/4	40 galon	84.4 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
4/4	40 galon	84.4 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
5/4	40 galon	84.4 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
6/4	110 galon	232.1 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
7/4	110 galon	232.1 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
8/4	110 galon	232.1 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
9/4	110 galon	232.1 rupiah/galon	170 galon	10000 rupiah/order	0 galon	0 rupiah/galon
10/4	0 galon	0 rupiah/galon	60 galon	10000 rupiah/order	30 galon	30000 rupiah/galon
11/4	0 galon	0 rupiah/galon	60 galon	10000 rupiah/order	30 galon	30000 rupiah/galon
12/4	0 galon	0 rupiah/galon	60 galon	10000 rupiah/order	30 galon	30000 rupiah/galon
13/4	170 galon	358.7 rupiah/galon	0 galon	0 rupiah/order	30 galon	30000 rupiah/galon
14/4	200 galon	422 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
15/4	260 galon	548.6 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
16/4	320 galon	675.2 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
17/4	174 galon	367.14 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
18/4	174 galon	367.14 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
19/4	174 galon	367.14 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
20/4	174 galon	367.14 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
21/4	174 galon	367.14 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
22/4	174 galon	367.14 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
23/4	174 galon	367.14 rupiah/galon	72 galon	10000 rupiah/order	0 galon	0 rupiah/galon
24/4	51 galon	107.61 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
25/4	51 galon	107.61 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
26/4	51 galon	107.61 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
27/4	123 galon	259.53 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
28/4	123 galon	259.53 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
29/4	123 galon	259.53 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon
30/4	123 galon	259.53 rupiah/galon	140 galon	10000 rupiah/order	0 galon	0 rupiah/galon
1/5	0 galon	0 rupiah/galon	17 galon	10000 rupiah/order	0 galon	0 rupiah/galon
2/5	0 galon	0 rupiah/galon	17 galon	10000 rupiah/order	9 galon	9000 rupiah/galon
3/5	0 galon	0 rupiah/galon	17 galon	10000 rupiah/order	9 galon	9000 rupiah/galon
4/5	140 galon	295.4 rupiah/galon	0 galon	0 rupiah/order	9 galon	9000 rupiah/galon
5/5	149 galon	314.39 rupiah/galon	0 galon	0 rupiah/order	0 galon	0 rupiah/galon

6/5	166	galon	350.26	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
7/5	183	galon	386.13	rupiah/galon	92	galon	10000	rupiah/order	0	galon	0	rupiah/galon
8/5	46	galon	97.06	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
9/5	46	galon	97.06	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
10/5	46	galon	97.06	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
11/5	137	galon	289.07	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
12/5	137	galon	289.07	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
13/5	137	galon	289.07	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
14/5	137	galon	289.07	rupiah/galon	112	galon	10000	rupiah/order	0	galon	0	rupiah/galon
15/5	13	galon	27.43	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
16/5	13	galon	27.43	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
17/5	13	galon	27.43	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
18/5	125	galon	263.75	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
19/5	125	galon	263.75	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
20/5	125	galon	263.75	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
21/5	125	galon	263.75	rupiah/galon	130	galon	10000	rupiah/order	0	galon	0	rupiah/galon
22/5	0	galon	0	rupiah/galon	6	galon	10000	rupiah/order	3	galon	3000	rupiah/galon
23/5	0	galon	0	rupiah/galon	6	galon	10000	rupiah/order	3	galon	3000	rupiah/galon
24/5	0	galon	0	rupiah/galon	6	galon	10000	rupiah/order	3	galon	3000	rupiah/galon
25/5	130	galon	274.3	rupiah/galon	0	galon	0	rupiah/order	3	galon	3000	rupiah/galon
26/5	133	galon	280.63	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
27/5	139	galon	293.29	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
28/5	145	galon	305.95	rupiah/galon	100	galon	10000	rupiah/order	0	galon	0	rupiah/galon
29/5	22	galon	46.42	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
30/5	22	galon	46.42	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
31/5	22	galon	46.42	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
1/6	123	galon	259.53	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
2/6	123	galon	259.53	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
3/6	123	galon	259.53	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
4/6	123	galon	259.53	rupiah/galon	84	galon	10000	rupiah/order	0	galon	0	rupiah/galon
5/6	19	galon	40.09	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
6/6	19	galon	40.09	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
7/6	19	galon	40.09	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
8/6	103	galon	217.33	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
9/6	103	galon	217.33	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon
10/6	103	galon	217.33	rupiah/galon	0	galon	0	rupiah/order	0	galon	0	rupiah/galon

11/6	103 galon	217.33	rupiah/galon	205 galon	10000	rupiah/order	0 galon	0	rupiah/galon
12/6	0 galon	0	rupiah/galon	102 galon	10000	rupiah/order	51 galon	51000	rupiah/galon
13/6	0 galon	0	rupiah/galon	102 galon	10000	rupiah/order	51 galon	51000	rupiah/galon
14/6	0 galon	0	rupiah/galon	102 galon	10000	rupiah/order	51 galon	51000	rupiah/galon
15/6	205 galon	432.55	rupiah/galon	0 galon	0	rupiah/order	0 galon	0	rupiah/galon
16/6	256 galon	540.16	rupiah/galon	0 galon	0	rupiah/order	0 galon	0	rupiah/galon
17/6	358 galon	755.38	rupiah/galon	0 galon	0	rupiah/order	0 galon	0	rupiah/galon
18/6	459 galon	968.49	rupiah/galon	0 galon	0	rupiah/order	0 galon	0	rupiah/galon
19/6	346 galon	730.06	rupiah/galon	0 galon	0	rupiah/order	0 galon	0	rupiah/galon
20/6	346 galon	730.06	rupiah/galon	0 galon	0	rupiah/order	0 galon	0	rupiah/galon
21/6	346 galon	730.06	rupiah/galon	0 galon	0	rupiah/order	0 galon	0	rupiah/galon
22/6	346 galon	730.06	rupiah/galon	0 galon	0	rupiah/order	0 galon	0	rupiah/galon
23/6	346 galon	730.06	rupiah/galon	0 galon	0	rupiah/order	0 galon	0	rupiah/galon
24/6	346 galon	730.06	rupiah/galon	0 galon	0	rupiah/order	0 galon	0	rupiah/galon
25/6	346 galon	730.06	rupiah/galon	0 galon	0	rupiah/order	0 galon	0	rupiah/galon
26/6	232 galon	489.52	rupiah/galon	0 galon	0	rupiah/order	0 galon	0	rupiah/galon
27/6	232 galon	489.52	rupiah/galon	0 galon	0	rupiah/order	0 galon	0	rupiah/galon
28/6	232 galon	489.52	rupiah/galon	0 galon	0	rupiah/order	0 galon	0	rupiah/galon
29/6	232 galon	489.52	rupiah/galon	0 galon	0	rupiah/order	0 galon	0	rupiah/galon
30/6	232 galon	489.52	rupiah/galon	0 galon	0	rupiah/order	0 galon	0	rupiah/galon
1/7		25746.22	rupiah/galon	0 galon	22000	rupiah/order	0 galon	372000	rupiah/galon







**LAMPIRAN**

**Output Model Perbaikan Backlog**

Time	Pesanan Ke Pabrik (galon/da)	Penerimaan Dari Pabrik (galon/da)	Persediaan Aktual Distributor (galon)	Pengiriman Ke Retailer (galon/da)	Backlog Di Distributor (galon)
4/1/2007	0	0	0	150	0
4/2/2007	180	0	0	150	110
4/3/2007	0	0	0	40	0
4/4/2007	0	180	180	40	0
4/5/2007	0	0	0	220	0
4/6/2007	0	0	0	220	0
4/7/2007	0	0	0	220	0
4/8/2007	0	0	0	220	0
4/9/2007	200	0	0	220	140
4/10/2007	0	0	0	80	0
4/11/2007	0	200	200	80	0
4/12/2007	0	0	0	280	0
4/13/2007	0	0	0	280	0
4/14/2007	0	0	0	280	0
4/15/2007	0	0	0	280	0
4/16/2007	159	0	0	280	146
4/17/2007	0	0	0	134	0
4/18/2007	0	159	159	134	0
4/19/2007	0	0	0	293	0
4/20/2007	0	0	0	293	0
4/21/2007	0	0	0	293	0
4/22/2007	0	0	0	293	0
4/23/2007	76	0	0	293	123
4/24/2007	0	0	0	170	0
4/25/2007	0	76	76	170	0
4/26/2007	0	0	0	246	0
4/27/2007	0	0	0	246	0
4/28/2007	0	0	0	246	0
4/29/2007	0	0	0	246	0
4/30/2007	149	0	0	246	131
5/1/2007	0	0	0	114	0
5/2/2007	0	149	149	114	0
5/3/2007	0	0	0	263	0
5/4/2007	0	0	0	263	0
5/5/2007	0	0	0	263	0
5/6/2007	0	0	0	263	0
5/7/2007	149	0	0	263	137
5/8/2007	0	0	0	126	0
5/9/2007	0	149	149	126	0
5/10/2007	0	0	0	275	0
5/11/2007	0	0	0	275	0

5/12/2007	0	0	275	0	0	0
5/13/2007	0	0	275	0	0	0
5/14/2007	99	0	275	125	0	0
5/15/2007	0	0	150	0	0	0
5/16/2007	0	99	150	0	0	0
5/17/2007	0	0	249	0	0	0
5/18/2007	0	0	249	0	0	0
5/19/2007	0	0	249	0	0	0
5/20/2007	0	0	249	0	0	0
5/21/2007	133	0	249	128	0	0
5/22/2007	0	0	122	0	0	0
5/23/2007	0	133	122	0	0	0
5/24/2007	0	0	255	0	0	0
5/25/2007	0	0	255	0	0	0
5/26/2007	0	0	255	0	0	0
5/27/2007	0	0	255	0	0	0
5/28/2007	113	0	255	123	0	0
5/29/2007	0	0	133	0	0	0
5/30/2007	0	113	133	0	0	0
5/31/2007	0	0	245	0	0	0
6/1/2007	0	0	245	0	0	0
6/2/2007	0	0	245	0	0	0
6/3/2007	0	0	245	0	0	0
6/4/2007	64	0	245	103	0	0
6/5/2007	0	0	142	0	0	0
6/6/2007	0	64	142	0	0	0
6/7/2007	0	0	206	0	0	0
6/8/2007	0	0	206	0	0	0
6/9/2007	0	0	206	0	0	0
6/10/2007	0	0	206	0	0	0
6/11/2007	256	0	206	154	0	0
6/12/2007	0	0	52	0	0	0
6/13/2007	0	256	52	0	0	0
6/14/2007	0	0	308	0	0	0
6/15/2007	0	0	308	0	0	0
6/16/2007	0	0	308	0	0	0
6/17/2007	0	0	308	0	0	0
6/18/2007	31	0	308	113	0	0
6/19/2007	0	0	195	0	0	0
6/20/2007	0	31	195	0	0	0
6/21/2007	0	0	226	0	0	0
6/22/2007	0	0	226	0	0	0
6/23/2007	0	0	226	0	0	0



Time	Pesanan Ke Distributor (galon/da)	Penerimaan Dari Distributor (galon/da)	Persediaan Aktual Retailer (galon)	Penjualan Ke Konsumen Akhir (galon/da)	Backlog Di Retailer (galon)
4/1/2007	110	0	150	130	0
4/2/2007	0	0	20	0	0
4/3/2007	0	110	20	0	0
4/4/2007	0	0	130	0	0
4/5/2007	0	0	130	0	0
4/6/2007	0	0	130	0	0
4/7/2007	0	0	130	0	0
4/8/2007	140	0	130	130	0
4/9/2007	0	0	0	0	5
4/10/2007	0	140	0	0	5
4/11/2007	0	0	140	7e-1	5
4/12/2007	0	0	139	6e-1	4
4/13/2007	0	0	139	5e-1	4
4/14/2007	0	0	138	4e-1	3
4/15/2007	146	0	138	138	3
4/16/2007	0	0	0	0	7
4/17/2007	0	146	0	0	7
4/18/2007	0	0	146	1	7
4/19/2007	0	0	145	9e-1	6
4/20/2007	0	0	144	7e-1	5
4/21/2007	0	0	144	6e-1	4
4/22/2007	123	0	143	134	4
4/23/2007	0	0	10	5e-1	3
4/24/2007	0	123	9	4e-1	3
4/25/2007	0	0	132	3e-1	2
4/26/2007	0	0	131	3e-1	2
4/27/2007	0	0	131	2e-1	2
4/28/2007	0	0	131	2e-1	1
4/29/2007	131	0	131	131	1
4/30/2007	0	0	0	0	2
5/1/2007	0	131	0	0	2
5/2/2007	0	0	131	3e-1	2
5/3/2007	0	0	131	2e-1	2
5/4/2007	0	0	131	2e-1	1
5/5/2007	0	0	131	2e-1	1
5/6/2007	137	0	131	131	1
5/7/2007	0	0	0	0	4
5/8/2007	0	137	0	0	4
5/9/2007	0	0	137	6e-1	4
5/10/2007	0	0	137	5e-1	4
5/11/2007	0	0	136	4e-1	3

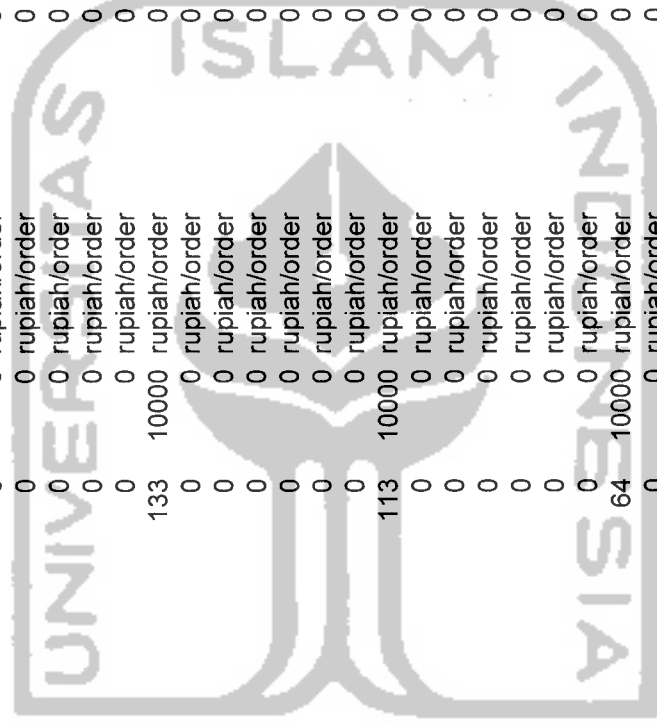
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5/13/2007	125	0	135	130	2
5/14/2007	0	0	5	3e-1	2
5/15/2007	0	125	5	2e-1	2
5/16/2007	0	0	129	2e-1	1
5/17/2007	0	0	129	2e-1	1
5/18/2007	0	0	129	2e-1	1
5/19/2007	0	0	129	1e-1	9e-1
5/20/2007	128	0	128	128	8e-1
5/21/2007	0	0	4e-1	1e-1	7e-1
5/22/2007	0	128	3e-1	8e-2	6e-1
5/23/2007	0	0	128	7e-2	5e-1
5/24/2007	0	0	128	6e-2	4e-1
5/25/2007	0	0	128	5e-2	4e-1
5/26/2007	0	0	128	4e-2	3e-1
5/27/2007	123	0	127	125	3e-1
5/28/2007	0	0	2	3e-2	2e-1
5/29/2007	0	123	2	3e-2	2e-1
5/30/2007	0	0	125	2e-2	2e-1
5/31/2007	0	0	125	2e-2	1e-1
6/1/2007	0	0	125	2e-2	1e-1
6/2/2007	0	0	125	114	9e-2
6/3/2007	103	0	125	114	8e-2
6/4/2007	0	0	11	1e-2	7e-2
6/5/2007	0	103	11	1e-2	7e-2
6/6/2007	0	0	114	8e-3	6e-2
6/7/2007	0	0	114	7e-3	5e-2
6/8/2007	0	0	114	6e-3	4e-2
6/9/2007	0	0	114	5e-3	4e-2
6/10/2007	154	0	114	114	3e-2
6/11/2007	0	0	0	0	20
6/12/2007	0	154	0	0	20
6/13/2007	0	0	154	3	20
6/14/2007	0	0	151	2	17
6/15/2007	0	0	149	2	15
6/16/2007	0	0	147	2	13
6/17/2007	113	0	145	131	11
6/18/2007	0	0	14	1	9
6/19/2007	0	113	13	1	8
6/20/2007	0	0	125	1	7
6/21/2007	0	0	124	8e-1	6
6/22/2007	0	0	123	7e-1	5
6/23/2007	0	0	122	6e-1	4



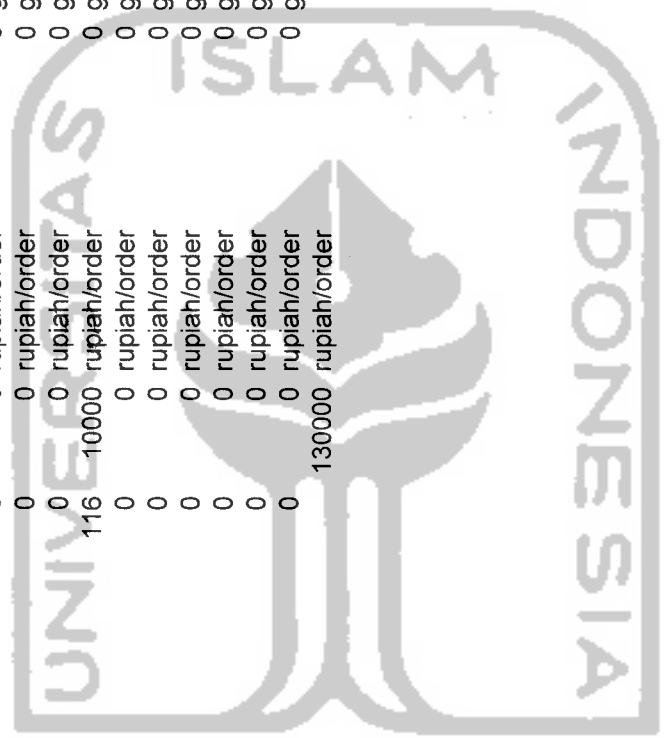
Tgl/Bln	Persediaan Distributor	Biaya Simpan	Pesanan Ke Pabrik	Biaya Pesan	Backlog Di Distributor	Biaya Backlog
1/4	150	316.5 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
2/4	150	316.5 rupiah/galon	180	10000 rupiah/order	0 galon	0 rupiah/galon
3/4	40	84.4 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
4/4	40	84.4 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
5/4	220	464.2 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
6/4	220	464.2 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
7/4	220	464.2 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
8/4	220	464.2 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
9/4	220	464.2 rupiah/galon	200	10000 rupiah/order	0 galon	0 rupiah/galon
10/4	80	168.8 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
11/4	80	168.8 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
12/4	280	590.8 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
13/4	280	590.8 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
14/4	280	590.8 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
15/4	280	590.8 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
16/4	280	590.8 rupiah/galon	159	10000 rupiah/order	0 galon	0 rupiah/galon
17/4	134	282.74 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
18/4	134	282.74 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
19/4	293	618.23 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
20/4	293	618.23 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
21/4	293	618.23 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
22/4	293	618.23 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
23/4	293	618.23 rupiah/galon	76	10000 rupiah/order	0 galon	0 rupiah/galon
24/4	170	358.7 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
25/4	170	358.7 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
26/4	246	519.06 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
27/4	246	519.06 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
28/4	246	519.06 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
29/4	246	519.06 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
30/4	246	519.06 rupiah/galon	149	10000 rupiah/order	0 galon	0 rupiah/galon
1/5	114	240.54 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
2/5	114	240.54 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
3/5	263	554.93 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
4/5	263	554.93 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
5/5	263	554.93 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon
6/5	263	554.93 rupiah/galon	0	0 rupiah/order	0 galon	0 rupiah/galon



7/5	263	554.93	rupiah/galon	149	10000	rupiah/order	0	galon	0	rupiah/galon
8/5	126	265.86	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
9/5	126	265.86	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
10/5	275	580.25	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
11/5	275	580.25	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
12/5	275	580.25	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
13/5	275	580.25	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
14/5	275	580.25	rupiah/galon	99	10000	rupiah/order	0	galon	0	rupiah/galon
15/5	150	316.5	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
16/5	150	316.5	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
17/5	249	525.39	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
18/5	249	525.39	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
19/5	249	525.39	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
20/5	249	525.39	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
21/5	249	525.39	rupiah/galon	133	10000	rupiah/order	0	galon	0	rupiah/galon
22/5	122	257.42	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
23/5	122	257.42	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
24/5	255	538.05	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
25/5	255	538.05	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
26/5	255	538.05	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
27/5	255	538.05	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
28/5	255	538.05	rupiah/galon	113	10000	rupiah/order	0	galon	0	rupiah/galon
29/5	133	280.63	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
30/5	133	280.63	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
31/5	245	516.95	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
1/6	245	516.95	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
2/6	245	516.95	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
3/6	245	516.95	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
4/6	245	516.95	rupiah/galon	64	10000	rupiah/order	0	galon	0	rupiah/galon
5/6	142	299.62	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
6/6	142	299.62	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
7/6	206	434.66	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
8/6	206	434.66	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
9/6	206	434.66	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
10/6	206	434.66	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
11/6	206	434.66	rupiah/galon	256	10000	rupiah/order	0	galon	0	rupiah/galon
12/6	52	109.72	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon



13/6	52	109.72	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
14/6	308	649.88	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
15/6	308	649.88	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
16/6	308	649.88	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
17/6	308	649.88	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
18/6	308	649.88	rupiah/galon	31	10000	rupiah/order	0	galon	0	rupiah/galon
19/6	195	411.45	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
20/6	195	411.45	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
21/6	226	476.86	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
22/6	226	476.86	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
23/6	226	476.86	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
24/6	226	476.86	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
25/6	226	476.86	rupiah/galon	116	10000	rupiah/order	0	galon	0	rupiah/galon
26/6	112	236.32	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
27/6	112	236.32	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
28/6	228	481.08	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
29/6	228	481.08	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
30/6	228	481.08	rupiah/galon	0	0	rupiah/order	0	galon	0	rupiah/galon
177		41529.02	rupiah/galon	0	130000	rupiah/order	0	galon	0	rupiah/galon





**LAMPIRAN**

**Output Model Perbaikan Persediaan**

Time	Pesanan Ke Pabrik (galon/da)	Penerimaan Dari Pabrik (galon/da)	Persediaan Aktual Distributor (galon)	Pengiriman Ke Retailer (galon/da)	Backlog Di Distributor (galon)
4/1/2007	0	0	150	0	0
4/2/2007	70	0	150	110	0
4/3/2007	0	70	40	0	0
4/4/2007	0	0	110	0	0
4/5/2007	0	0	110	0	0
4/6/2007	0	0	110	0	0
4/7/2007	0	0	110	0	0
4/8/2007	0	0	110	0	0
4/9/2007	170	0	110	110	0
4/10/2007	60	170	0	0	30
4/11/2007	0	60	170	30	30
4/12/2007	0	0	200	0	0
4/13/2007	0	0	200	0	0
4/14/2007	0	0	200	0	0
4/15/2007	0	0	200	0	0
4/16/2007	93	0	200	146	0
4/17/2007	0	93	54	0	0
4/18/2007	0	0	146	0	0
4/19/2007	0	0	146	0	0
4/20/2007	0	0	146	0	0
4/21/2007	0	0	146	0	0
4/22/2007	0	0	146	0	0
4/23/2007	100	0	146	123	0
4/24/2007	0	100	23	0	0
4/25/2007	0	0	123	0	0
4/26/2007	0	0	123	0	0
4/27/2007	0	0	123	0	0
4/28/2007	0	0	123	0	0
4/29/2007	0	0	123	0	0
4/30/2007	140	0	123	123	0
5/1/2007	17	140	0	0	9
5/2/2007	0	17	140	9	9
5/3/2007	0	0	149	0	0
5/4/2007	0	0	149	0	0
5/5/2007	0	0	149	0	0
5/6/2007	0	0	149	0	0
5/7/2007	126	0	149	137	0
5/8/2007	0	126	11	0	0
5/9/2007	0	0	137	0	0
5/10/2007	0	0	137	0	0
5/11/2007	0	0	137	0	0

5/12/2007	0	0	137	0	0	0	0
5/13/2007	0	0	137	0	0	0	0
5/14/2007	112	0	137	125	0	0	0
5/15/2007	0	112	13	0	0	0	0
5/16/2007	0	0	125	0	0	0	0
5/17/2007	0	0	125	0	0	0	0
5/18/2007	0	0	125	0	0	0	0
5/19/2007	0	0	125	0	0	0	0
5/20/2007	0	0	125	0	0	0	0
5/21/2007	130	0	125	125	0	0	0
5/22/2007	6	130	0	0	3	0	3
5/23/2007	0	6	130	3	0	0	3
5/24/2007	0	0	133	0	0	0	0
5/25/2007	0	0	133	0	0	0	0
5/26/2007	0	0	133	0	0	0	0
5/27/2007	0	0	133	0	0	0	0
5/28/2007	112	0	133	123	0	0	0
5/29/2007	0	112	11	0	0	0	0
5/30/2007	0	0	123	0	0	0	0
5/31/2007	0	0	123	0	0	0	0
6/1/2007	0	0	123	0	0	0	0
6/2/2007	0	0	123	0	0	0	0
6/3/2007	0	0	123	0	0	0	0
6/4/2007	84	0	123	103	0	0	0
6/5/2007	0	84	19	0	0	0	0
6/6/2007	0	0	103	0	0	0	0
6/7/2007	0	0	103	0	0	0	0
6/8/2007	0	0	103	0	0	0	0
6/9/2007	0	0	103	0	0	0	0
6/10/2007	0	0	103	0	0	0	0
6/11/2007	205	0	103	103	0	0	0
6/12/2007	102	205	0	103	0	0	0
6/13/2007	0	102	205	51	51	0	51
6/14/2007	0	0	256	0	0	0	0
6/15/2007	0	0	256	0	0	0	0
6/16/2007	0	0	256	0	0	0	0
6/17/2007	0	0	256	0	0	0	0
6/18/2007	0	0	256	113	0	0	0
6/19/2007	0	0	143	0	0	0	0
6/20/2007	0	0	143	0	0	0	0
6/21/2007	0	0	143	0	0	0	0
6/22/2007	0	0	143	0	0	0	0
6/23/2007	0	0	143	0	0	0	0



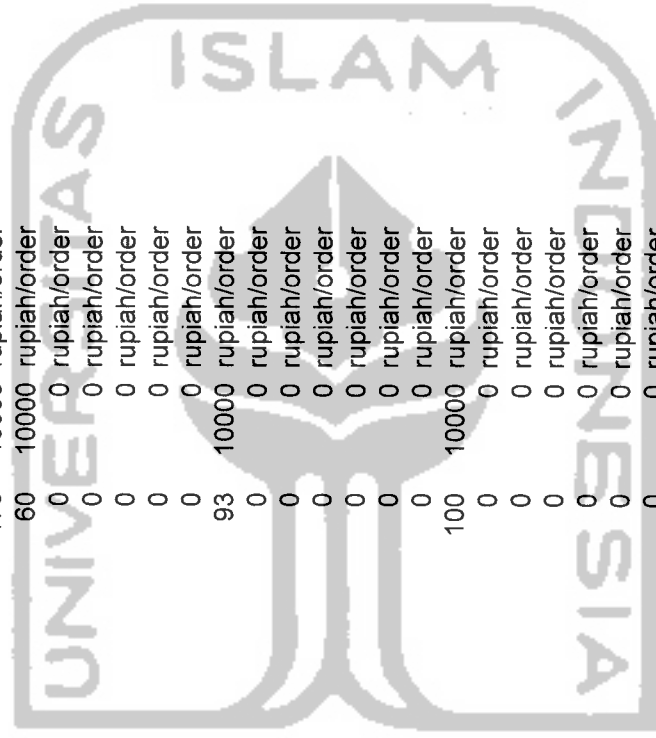
Time	Pesanan Ke Distributor (galon/da)	Penerimaan Dari Distributor (galon/da)	Persediaan Aktual Retailer (galon)	Penjualan Ke Konsumen Akhir (galon/da)	Backlog Di Retailer (galon)
4/1/2007	110	0	150	130	0
4/2/2007	0	0	20	0	0
4/3/2007	0	110	20	0	0
4/4/2007	0	0	130	0	0
4/5/2007	0	0	130	0	0
4/6/2007	0	0	130	0	0
4/7/2007	0	0	130	0	0
4/8/2007	140	0	130	130	0
4/9/2007	0	0	0	0	5
4/10/2007	0	110	0	0	5
4/11/2007	0	0	110	7e-1	5
4/12/2007	0	30	109	6e-1	4
4/13/2007	0	0	139	5e-1	4
4/14/2007	0	0	138	4e-1	3
4/15/2007	146	0	138	138	3
4/16/2007	0	0	0	0	7
4/17/2007	0	146	0	0	7
4/18/2007	0	0	146	1	7
4/19/2007	0	0	145	9e-1	6
4/20/2007	0	0	144	7e-1	5
4/21/2007	0	0	144	6e-1	4
4/22/2007	123	0	143	134	4
4/23/2007	0	0	10	5e-1	3
4/24/2007	0	123	9	4e-1	3
4/25/2007	0	0	132	3e-1	2
4/26/2007	0	0	131	3e-1	2
4/27/2007	0	0	131	2e-1	2
4/28/2007	0	0	131	2e-1	1
4/29/2007	131	0	131	131	1
4/30/2007	0	0	0	0	2
5/1/2007	0	123	0	0	2
5/2/2007	0	0	123	3e-1	2
5/3/2007	0	9	123	2e-1	2
5/4/2007	0	0	131	2e-1	1
5/5/2007	0	0	131	2e-1	1
5/6/2007	137	0	131	131	1
5/7/2007	0	0	0	0	4
5/8/2007	0	137	0	0	4
5/9/2007	0	0	137	6e-1	4
5/10/2007	0	0	137	5e-1	4
5/11/2007	0	0	136	4e-1	3

5/12/2007	0	0	0	136	4e-1	3
5/13/2007	125	0	0	135	130	2
5/14/2007	0	0	0	5	3e-1	2
5/15/2007	0	125	0	5	2e-1	2
5/16/2007	0	0	0	129	2e-1	1
5/17/2007	0	0	0	129	2e-1	1
5/18/2007	0	0	0	129	2e-1	1
5/19/2007	0	0	0	129	1e-1	9e-1
5/20/2007	128	0	0	128	128	8e-1
5/21/2007	0	0	0	4e-1	1e-1	7e-1
5/22/2007	0	125	0	3e-1	8e-2	6e-1
5/23/2007	0	0	0	125	7e-2	5e-1
5/24/2007	0	3	0	125	6e-2	4e-1
5/25/2007	0	0	0	128	5e-2	4e-1
5/26/2007	0	0	0	128	4e-2	3e-1
5/27/2007	123	0	0	127	125	3e-1
5/28/2007	0	0	0	2	3e-2	2e-1
5/29/2007	0	123	0	2	3e-2	2e-1
5/30/2007	0	0	0	125	2e-2	2e-1
5/31/2007	0	0	0	125	2e-2	1e-1
6/1/2007	0	0	0	125	2e-2	1e-1
6/2/2007	0	0	0	125	2e-2	1e-1
6/3/2007	103	0	0	125	114	9e-2
6/4/2007	0	0	0	11	1e-2	8e-2
6/5/2007	0	103	0	11	1e-2	7e-2
6/6/2007	0	0	0	114	8e-3	6e-2
6/7/2007	0	0	0	114	7e-3	5e-2
6/8/2007	0	0	0	114	6e-3	4e-2
6/9/2007	0	0	0	114	5e-3	4e-2
6/10/2007	154	0	0	114	114	3e-2
6/11/2007	0	0	0	0	0	20
6/12/2007	0	103	0	0	0	20
6/13/2007	0	0	0	103	3	20
6/14/2007	0	51	0	100	2	17
6/15/2007	0	0	0	149	2	15
6/16/2007	0	0	0	147	2	13
6/17/2007	113	0	0	145	131	11
6/18/2007	0	0	0	14	1	9
6/19/2007	0	113	0	13	1	8
6/20/2007	0	0	0	125	1	7
6/21/2007	0	0	0	124	8e-1	6
6/22/2007	0	0	0	123	7e-1	5
6/23/2007	0	0	0	122	6e-1	4

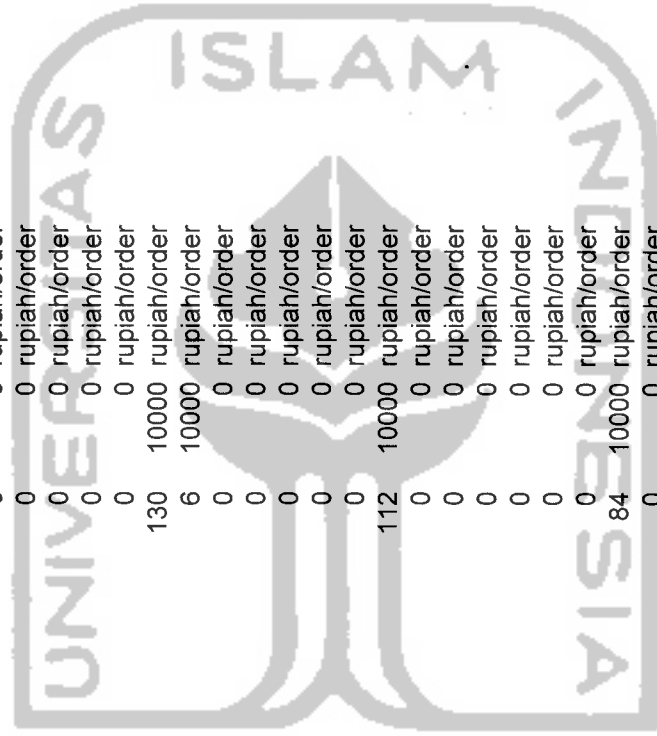




Tgl/Bln	Persediaan Distributor	Biaya Simpan	Pesanan Ke Pabrik	Biaya Pesan	Backlog Di Distributor	Biaya Backlog
1/4	150	316.5 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
2/4	150	316.5 rupiah/galon	70	10000 rupiah/order	0	0 rupiah/galon
3/4	40	84.4 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
4/4	110	232.1 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
5/4	110	232.1 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
6/4	110	232.1 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
7/4	110	232.1 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
8/4	110	232.1 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
9/4	110	232.1 rupiah/galon	170	10000 rupiah/order	0	0 rupiah/galon
10/4	0	0 rupiah/galon	60	10000 rupiah/order	30	30000 rupiah/galon
11/4	170	358.7 rupiah/galon	0	0 rupiah/order	30	30000 rupiah/galon
12/4	200	422 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
13/4	200	422 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
14/4	200	422 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
15/4	200	422 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
16/4	200	422 rupiah/galon	93	10000 rupiah/order	0	0 rupiah/galon
17/4	54	113.94 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
18/4	146	308.06 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
19/4	146	308.06 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
20/4	146	308.06 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
21/4	146	308.06 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
22/4	146	308.06 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
23/4	146	308.06 rupiah/galon	100	10000 rupiah/order	0	0 rupiah/galon
24/4	23	48.53 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
25/4	123	259.53 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
26/4	123	259.53 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
27/4	123	259.53 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
28/4	123	259.53 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
29/4	123	259.53 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
30/4	123	259.53 rupiah/galon	140	10000 rupiah/order	0	0 rupiah/galon
1/5	0	0 rupiah/galon	17	10000 rupiah/order	9	9000 rupiah/galon
2/5	140	295.4 rupiah/galon	0	0 rupiah/order	9	9000 rupiah/galon
3/5	149	314.39 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
4/5	149	314.39 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
5/5	149	314.39 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon
6/5	149	314.39 rupiah/galon	0	0 rupiah/order	0	0 rupiah/galon



7/5	149	314.39	rupiah/galon	126	10000	rupiah/order	0	0	0	rupiah/galon
8/5	11	23.21	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
9/5	137	289.07	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
10/5	137	289.07	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
11/5	137	289.07	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
12/5	137	289.07	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
13/5	137	289.07	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
14/5	137	289.07	rupiah/galon	112	10000	rupiah/order	0	0	0	rupiah/galon
15/5	13	27.43	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
16/5	125	263.75	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
17/5	125	263.75	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
18/5	125	263.75	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
19/5	125	263.75	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
20/5	125	263.75	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
21/5	125	263.75	rupiah/galon	130	10000	rupiah/order	0	0	0	rupiah/galon
22/5	0	0	rupiah/galon	6	10000	rupiah/order	3	3000	0	rupiah/galon
23/5	130	274.3	rupiah/galon	0	0	rupiah/order	3	3000	0	rupiah/galon
24/5	133	280.63	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
25/5	133	280.63	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
26/5	133	280.63	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
27/5	133	280.63	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
28/5	133	280.63	rupiah/galon	112	10000	rupiah/order	0	0	0	rupiah/galon
29/5	11	23.21	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
30/5	123	259.53	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
31/5	123	259.53	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
1/6	123	259.53	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
2/6	123	259.53	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
3/6	123	259.53	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
4/6	123	259.53	rupiah/galon	84	10000	rupiah/order	0	0	0	rupiah/galon
5/6	19	40.09	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
6/6	103	217.33	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
7/6	103	217.33	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
8/6	103	217.33	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
9/6	103	217.33	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
10/6	103	217.33	rupiah/galon	0	0	rupiah/order	0	0	0	rupiah/galon
11/6	103	217.33	rupiah/galon	205	10000	rupiah/order	0	0	0	rupiah/galon
12/6	0	0	rupiah/galon	102	10000	rupiah/order	51	51000	0	rupiah/galon



13/6	205	432.55	rupiah/galon	0	0	rupiah/order	51	51000	rupiah/galon
14/6	256	540.16	rupiah/galon	0	0	rupiah/order	0	0	rupiah/galon
15/6	256	540.16	rupiah/galon	0	0	rupiah/order	0	0	rupiah/galon
16/6	256	540.16	rupiah/galon	0	0	rupiah/order	0	0	rupiah/galon
17/6	256	540.16	rupiah/galon	0	0	rupiah/order	0	0	rupiah/galon
18/6	256	540.16	rupiah/galon	0	0	rupiah/order	0	0	rupiah/galon
19/6	143	301.73	rupiah/galon	0	0	rupiah/order	0	0	rupiah/galon
20/6	143	301.73	rupiah/galon	0	0	rupiah/order	0	0	rupiah/galon
21/6	143	301.73	rupiah/galon	0	0	rupiah/order	0	0	rupiah/galon
22/6	143	301.73	rupiah/galon	0	0	rupiah/order	0	0	rupiah/galon
23/6	143	301.73	rupiah/galon	0	0	rupiah/order	0	0	rupiah/galon
24/6	143	301.73	rupiah/galon	0	0	rupiah/order	0	0	rupiah/galon
25/6	143	301.73	rupiah/galon	86	10000	rupiah/order	0	0	rupiah/galon
26/6	28	59.08	rupiah/galon	0	0	rupiah/order	0	0	rupiah/galon
27/6	114	240.54	rupiah/galon	0	0	rupiah/order	0	0	rupiah/galon
28/6	114	240.54	rupiah/galon	0	0	rupiah/order	0	0	rupiah/galon
29/6	114	240.54	rupiah/galon	0	0	rupiah/order	0	0	rupiah/galon
30/6	114	240.54	rupiah/galon	0	0	rupiah/order	0	0	rupiah/galon
1/7		24490.77	rupiah/galon	0	160000	rupiah/order	0	186000	rupiah/galon

