QUIZ – 6 Pemodelan dan Simulasi

Nama   : Aldino Alung Putra Anugraha

Kelas   : 3C

NPM   : 2113020132

Quiz-6 Nomor 1

Model menggunakan metode : Exponential Smoothing

Hasil Prediksi : (Lampiran)

Format :

Data	Aktual	Prediksi	(Aktual-Prediksi)	ABS(Aktual -Prediksi)

Hasil Pengujian :

Metrik	Nilai
MAE	9,19
MAPE	6%
MedAE	7,450119
MSE	190,7100
RMSE	13,80977914
R2	1,43575
Y401	171,5449

Perkiraan berdasarkan hasil prediksi

Berdasarkan Metrik	Batas Bawah	Batas Atas
MAE	537,81	556,19
MAPE	546,4879	547,5121
MedAE	539,5499	554,4501
RMSE	356	738

QUIZ – 6 Pemodelan dan Simulasi

Nama   : Aldino Alung Putra Anugraha

Kelas   : 3C

NPM   : 2113020132

Quiz-6 Nomor 2

Model menggunakan metode : Exponential Smoothing

Hasil Prediksi : (Lampiran)

Format :

Data	Aktual	Prediksi	(Aktual-Prediksi)	ABS(Aktual -Prediksi)

Hasil Pengujian :

Metrik	Nilai
MAE	15,33
MAPE	3%
MedAE	11,93936
MSE	1024
RMSE	32
R2	4,404298
Y401	545,1404

Perkiraan berdasarkan hasil prediksi

Berdasarkan Metrik	Batas Bawah	Batas Atas
MAE	531,67	562,33
MAPE	546,5513	547,4487
MedAE	535,0606	558,9394
RMSE	-477	1571

Data	Aktual	Prediksi
1	167.77	169.81
2	157.55	159.89
3	165.93	168.82
4	162.28	161.88
5	154.61	156.94
6	165.66	162.85
7	161.79	163.86
8	165.18	165.92
9	167.49	170.43
10	166.97	166.38
11	169.22	169.49
12	167.53	167.47
13	150.14	152.27
14	167.06	169.92
15	159.92	157.73
16	161.45	158.97
17	162.36	165.28
18	160.86	161.92
19	164.04	166.06
20	160.46	162.81

Data	Aktual1	Aktual2	Aktual3	Aktual4	Aktual5
1	167.59	154.71	176.17	157.03	174.36
2	152.61	174.23	173.98	152.28	172.2
3	160.31	161.46	175.97	175.02	173.43
4	172.27	152.6	174.34	162.56	153.21
5	168.39	155.22	152.78	150.28	176.47
6	155.24	158.12	169.93	159.31	171.54
7	167.69	175.28	177.67	152.22	164.59
8	167.42	153.71	160.71	151.41	155.02
9	155.87	170.86	160.76	161.41	176.99
10	178.81	157.56	169.82	155.58	164.31
11	159.76	161.7	166.11	172.68	166.54
12	150.34	155.29	164	151.31	169.51
13	176.39	156.91	158.04	171	177.31
14	163.05	179.43	174.15	173.58	163.9
15	167.37	163.21	168.14	169.51	170.33
16	163.44	152.12	171.24	160.69	172.56
17	179.35	167.48	166.57	152.77	176.75
18	171.32	164.24	160.37	176.65	173.84
19	176.12	158.78	167.59	171.21	155.23
20	168.43	180	169.13	172.93	163.7
21	161.46	150.23	176.28	179.59	178.11
22	158.55	158.9	163.85	160.94	162.98
23	151.92	167.15	174.32	158.65	150.31
24	175.65	157.97	178.97	172.81	172.66
25	168.44	165.67	157.86	160.24	172.96
26	165.74	177.15	168.71	150.63	158.31
27	178.07	167.5	171.13	155.57	159.97
28	178.22	163.44	150.77	167.31	173.65
29	177.11	176.09	176.81	151.26	158.5
30	153.86	176.12	177.77	171.13	150.86
31	175.36	165.46	178.39	178.6	150.89
32	150.87	164.72	161.36	150.38	177.45

Prediksi	a	Aktual - Prediksi	ABS	ABS/Aktual
0		176.17	176.17	1.00
176.17		-2.19	2.19	0.01
174.637		1.33	1.33	0.01
175.5701		-1.23	1.23	0.01
174.709		-21.93	21.93	0.14
159.3587		10.57	10.57	0.06
166.7586		10.91	10.91	0.06
174.3966		-13.69	13.69	0.09
164.816		-4.06	4.06	0.03
161.9768		7.84	7.84	0.05
167.467		-1.36	1.36	0.01
166.5171		-2.52	2.52	0.02
164.7551		-6.72	6.72	0.04
160.0545		14.10	14.10	0.08
169.9214		-1.78	1.78	0.01
168.6744		2.57	2.57	0.01
170.4703		-3.90	3.90	0.02
167.7401		-7.37	7.37	0.05
162.581		5.01	5.01	0.03
166.0873		3.04	3.04	0.02
168.2172		8.06	8.06	0.05
173.8612		-10.01	10.01	0.06
166.8533		7.47	7.47	0.04
172.08		6.89	6.89	0.04
176.903		-19.04	19.04	0.12
163.5729		5.14	5.14	0.03
167.1689		3.96	3.96	0.02
169.9417		-19.17	19.17	0.13
156.5215		20.29	20.29	0.11
170.7234		7.05	7.05	0.04
175.656		2.73	2.73	0.02
177.5698		-16.21	16.21	0.10

33	164.84	171.95	172.54	158.67	176.26	166.2229	6.32	6.32	0.04
34	177.56	163.88	165.59	178.81	172.51	170.6449	-5.05	5.05	0.03
35	162.97	167.53	159.44	165.57	179.28	167.1065	-7.67	7.67	0.05
36	157.27	168.59	162.61	161.62	179.56	161.7399	0.87	0.87	0.01
37	159.25	158.3	169.44	166.23	164.24	162.349	7.09	7.09	0.04
38	166.99	179.22	174.03	169.46	173.98	167.3127	6.72	6.72	0.04
39	171.09	158.93	170.86	159.91	165.55	172.0148	-1.15	1.15	0.01
40	157.93	167.53	151.93	173.35	166.71	171.2064	-19.28	19.28	0.13
41	158.85	150.41	172.82	171.33	156.95	157.7129	15.11	15.11	0.09
42	172.48	170.39	153.95	171.24	156.58	168.2879	-14.34	14.34	0.09
43	156.77	178.95	159.62	166.03	168.77	158.2514	1.37	1.37	0.01
44	164.14	163.16	177.78	170.18	161.74	159.2094	18.57	18.57	0.10
45	166.15	157.05	170.18	176.26	173.05	172.2088	-2.03	2.03	0.01
46	174.24	165.37	171.04	170.5	171.85	170.7886	0.25	0.25	0.00
47	161.9	164.57	174.12	174.28	176.31	170.9646	3.16	3.16	0.02
48	161.21	179.18	178.47	159.27	160.16	173.1734	5.30	5.30	0.03
49	156.7	151.1	158.25	171.22	168.13	176.881	-18.63	18.63	0.12
50	155.26	161.39	168.07	172.08	154.77	163.8393	4.23	4.23	0.03
51	177.5	156.34	178.74	165.18	153.39	166.8008	11.94	11.94	0.07
52	166.9	178.39	152.57	158.1	168.98	175.1582	-22.59	22.59	0.15
53	152.62	150.38	168.61	156.39	159.39	159.3465	9.26	9.26	0.05
54	172.03	166.19	158.88	167.74	167.46	165.8309	-6.95	6.95	0.04
55	169.91	161.67	170.7	171.07	154.82	160.9653	9.73	9.73	0.06
56	178.07	164.26	163.75	160.49	170.81	167.7796	-4.03	4.03	0.02
57	175.78	157.49	178.92	153.65	161.27	164.9589	13.96	13.96	0.08
58	173.33	168.37	163.49	158.61	161.1	174.7317	-11.24	11.24	0.07
59	154.35	158.26	165.03	168.42	164.98	166.8625	-1.83	1.83	0.01
60	170.67	158.5	162.81	159.28	173.09	165.5797	-2.77	2.77	0.02
61	165.02	155.1	173.26	163.46	164.74	163.6409	9.62	9.62	0.06
62	163.15	168.15	166.18	169.34	154.16	170.3743	-4.19	4.19	0.03
63	167.17	165.95	157.2	167.05	153.79	167.4383	-10.24	10.24	0.07
64	164.71	151	153.25	177.52	153.96	160.2715	-7.02	7.02	0.05
65	172.89	153.07	164.12	160.47	159.62	155.3564	8.76	8.76	0.05

66	158.71	174.17	171.42	153.03	175.65	161.4909	9.93	9.93	0.06
67	161.98	177.05	174.07	162.2	154.79	168.4413	5.63	5.63	0.03
68	157.21	169.12	155.91	166.95	152.72	172.3814	-16.47	16.47	0.11
69	170.99	156.16	179.16	160.46	157.31	160.8514	18.31	18.31	0.10
70	159.76	165.32	154.92	177.34	161.57	173.6674	-18.75	18.75	0.12
71	175.54	165.46	162.13	172.35	177.36	160.5442	1.59	1.59	0.01
72	152.19	157.62	161.65	175.56	173.51	161.6543	0.00	0.00	0.00
73	158.39	165.12	179.2	163.68	172.18	161.6513	17.55	17.55	0.10
74	169.66	160.17	168.95	172.83	162.65	173.9354	-4.99	4.99	0.03
75	167.32	160.88	177.34	179.99	158.06	170.4456	6.89	6.89	0.04
76	167.25	170.16	159.1	172.2	167.05	175.2717	-16.17	16.17	0.10
77	155.6	161	179.13	163.24	162.76	163.9515	15.18	15.18	0.08
78	153.29	159.47	173.18	165.27	150.58	174.5765	-1.40	1.40	0.01
79	151.57	168.81	163.74	163.92	156.11	173.5989	-9.86	9.86	0.06
80	172.01	177.52	167.48	158.41	175.04	166.6977	0.78	0.78	0.00
81	156.49	170.66	170.91	173.71	168.42	167.2453	3.66	3.66	0.02
82	160.62	179.94	173.6	153.78	179.09	169.8106	3.79	3.79	0.02
83	173.43	167.87	157.6	150.17	155.44	172.4632	-14.86	14.86	0.09
84	173.44	156.21	172.14	163.72	157.45	162.059	10.08	10.08	0.06
85	162.71	162.93	167.61	163.51	164.99	169.1157	-1.51	1.51	0.01
86	158.54	170.03	153.13	176.72	174.65	168.0617	-14.93	14.93	0.10
87	169.79	174.34	151.07	154.58	150.34	157.6095	-6.54	6.54	0.04
88	177.99	175.06	162.61	161.61	172.36	153.0319	9.58	9.58	0.06
89	159.47	177.61	159	165.07	171.69	159.7366	-0.74	0.74	0.00
90	156.77	150.41	178.65	166.58	170.12	159.221	19.43	19.43	0.11
91	152.5	179.28	153.4	162.8	163.24	172.8213	-19.42	19.42	0.13
92	179.83	155.1	179.85	179.24	152.54	159.2264	20.62	20.62	0.11
93	178.33	165.03	153.82	159.8	153.45	173.6629	-19.84	19.84	0.13
94	177.02	173.7	159.47	164.77	172.65	159.7729	-0.30	0.30	0.00
95	165.43	176.09	159.26	173.78	162.28	159.5609	-0.30	0.30	0.00
96	178.89	171.39	171.2	154.21	162.04	159.3503	11.85	11.85	0.07
97	171.05	171.24	159.37	169.79	176.5	167.6451	-8.28	8.28	0.05
98	156.76	169.44	152.68	175.86	164.84	161.8525	-9.17	9.17	0.06

99	157.82	156.55	162.25	150.16	162.26	155.4318	6.82	6.82	0.04
100	150.6	152.68	157.72	176.79	150.06	160.2045	-2.48	2.48	0.02
101	179.77	153.65	178.13	155.25	160.99	158.4654	19.66	19.66	0.11
102	171.98	171.46	160.55	159.68	175.53	172.2306	-11.68	11.68	0.07
103	154.87	179.89	177.42	163.34	175.82	164.0542	13.37	13.37	0.08
104	173.57	177.12	159.61	175.91	167.6	173.4103	-13.80	13.80	0.09
105	171.76	163.79	151.48	176.28	172.37	163.7501	-12.27	12.27	0.08
106	174.97	165.82	154.83	157.91	173.83	155.161	-0.33	0.33	0.00
107	171.71	154.23	179.69	172.96	172.35	154.9293	24.76	24.76	0.14
108	158.89	169.43	161.13	161.36	155.8	172.2618	-11.13	11.13	0.07
109	172.24	157.92	153.11	168.88	173.9	164.4695	-11.36	11.36	0.07
110	155.08	167.6	172.27	159.95	156.74	156.5179	15.75	15.75	0.09
111	179.74	150.56	165.03	159.1	179.51	167.5444	-2.51	2.51	0.02
112	178.02	156.09	156.9	174.06	162.74	165.7843	-8.88	8.88	0.06
113	176.52	172.43	170.42	168.98	174.72	159.5653	10.85	10.85	0.06
114	152.01	155.61	174.19	170.59	176.97	167.1636	7.03	7.03	0.04
115	154.11	158.52	178.83	172	157.28	172.0821	6.75	6.75	0.04
116	163.78	151.93	176.27	170.06	177.85	176.8056	-0.54	0.54	0.00
117	161.89	179.43	168.46	164.26	163.01	176.4307	-7.97	7.97	0.05
118	162.16	153.52	162.18	169.08	174.11	170.8512	-8.67	8.67	0.05
119	158.03	178.57	150.18	176.89	176.38	164.7814	-14.60	14.60	0.10
120	161.04	152.19	162.59	152.13	170.56	154.5604	8.03	8.03	0.05
121	172.25	168.51	161.26	171.46	170.33	160.1811	1.08	1.08	0.01
122	159.51	165.82	179.82	156.94	177.9	160.9363	18.88	18.88	0.11
123	164	168.52	172.59	152.45	172.14	174.1549	-1.56	1.56	0.01
124	150.81	159.84	168.28	176.39	161.73	173.0595	-4.78	4.78	0.03
125	171.78	173.53	166.15	167.25	162.42	169.7138	-3.56	3.56	0.02
126	173.07	166.11	158.74	178	167.83	167.2192	-8.48	8.48	0.05
127	163.24	172.09	150.67	158.74	161.31	161.2837	-10.61	10.61	0.07
128	163.02	178.55	175.98	169.17	152.86	153.8541	22.13	22.13	0.13
129	150.76	168.17	171.04	163.43	162.9	169.3422	1.70	1.70	0.01
130	163.08	154.34	154.87	170.94	158.79	170.5307	-15.66	15.66	0.10
131	163.31	174.93	178.18	155.34	152.84	159.5682	18.61	18.61	0.10

132	179.44	166.45	169.81	161.59	159.53	172.5965	-2.79	2.79	0.02
133	174.85	151.26	180	161.58	179.95	170.6459	9.35	9.35	0.05
134	158.07	168.19	178.16	170.81	167.2	177.1938	0.97	0.97	0.01
135	159.76	157.76	176.25	162.68	174.49	177.8701	-1.62	1.62	0.01
136	159.59	165.84	179.09	157.1	151.65	176.736	2.35	2.35	0.01
137	159.66	162.22	171.19	169.25	151.24	178.3838	-7.19	7.19	0.04
138	174.62	172.15	166.2	161.73	166.58	173.3481	-7.15	7.15	0.04
139	170.33	178.15	151.08	158.36	165	168.3444	-17.26	17.26	0.11
140	157.7	178.35	170.54	158.8	163.48	156.2593	14.28	14.28	0.08
141	155.45	178.49	150.95	169.13	150.75	166.2558	-15.31	15.31	0.10
142	170.67	165.98	158.91	178.46	166.12	155.5417	3.37	3.37	0.02
143	150.63	151.2	157.95	177.04	156.82	157.8995	0.05	0.05	0.00
144	169.48	154.09	152.24	159.99	162	157.9349	-5.69	5.69	0.04
145	151.67	160.54	160.62	163.27	150.55	153.9485	6.67	6.67	0.04
146	162.59	151.7	168.04	170.03	169.43	158.6185	9.42	9.42	0.06
147	177.52	155.72	173.16	175.79	166.66	165.2136	7.95	7.95	0.05
148	162.46	157.39	175.7	173.06	152.27	170.7761	4.92	4.92	0.03
149	158.26	176.2	167.39	178.6	153.16	174.2228	-6.83	6.83	0.04
150	174.44	176.12	161.18	173.14	164.59	169.4398	-8.26	8.26	0.05
151	170.8	155.5	167.94	177.7	150.58	163.658	4.28	4.28	0.03
152	153.39	169.91	179.43	167.34	153.06	166.6554	12.77	12.77	0.07
153	169.95	153.68	157.18	164.84	164.45	175.5976	-18.42	18.42	0.12
154	176.6	152.49	176.07	177.99	169.68	162.7053	13.36	13.36	0.08
155	155.64	165.94	166.92	174.51	177.2	172.0606	-5.14	5.14	0.03
156	150.58	165.44	179.25	157.7	155.51	168.4622	10.79	10.79	0.06
157	161.41	153.58	156.69	164.38	153.25	176.0137	-19.32	19.32	0.12
158	168.72	172.09	166.39	173.24	161.43	162.4871	3.90	3.90	0.02
159	167.06	163.77	160.76	154.09	166.4	165.2191	-4.46	4.46	0.03
160	158.32	168.31	167.58	160.66	151.81	162.0977	5.48	5.48	0.03
161	154.87	162.1	172.98	153.19	173.12	165.9353	7.04	7.04	0.04
162	159.85	162.73	165.46	151.01	166.83	170.8666	-5.41	5.41	0.03
163	173.91	152.6	155.76	150.92	161.93	167.082	-11.32	11.32	0.07
164	164.25	170.06	164.71	175.24	179.54	159.1566	5.55	5.55	0.03

165	157.58	162.78	162.35	174.36	172.16	163.044	-0.69	0.69	0.00
166	165.73	177.55	169.19	156.19	160.46	162.5582	6.63	6.63	0.04
167	172.82	168.96	154.26	167.46	154.8	167.2005	-12.94	12.94	0.08
168	179.04	156.15	151.64	160.1	161.04	158.1421	-6.50	6.50	0.04
169	164.9	160.66	156.05	159.95	150.2	153.5906	2.46	2.46	0.02
170	160.85	153.14	164.27	157.99	171.98	155.3122	8.96	8.96	0.05
171	163.47	162.69	177.25	150.69	179.56	161.5827	15.67	15.67	0.09
172	161.01	156.67	164.35	158.4	175.07	172.5498	-8.20	8.20	0.05
173	174.75	171.99	157.88	173.54	157.76	166.8099	-8.93	8.93	0.06
174	178.98	171.62	151.82	164.45	170.3	160.559	-8.74	8.74	0.06
175	173.77	162	156.35	152.21	168.33	154.4417	1.91	1.91	0.01
176	176.17	171.29	154.87	155.57	171.22	155.7775	-0.91	0.91	0.01
177	161.96	153.77	158.92	154.68	158.9	155.1423	3.78	3.78	0.02
178	162.97	156.72	150.71	163.54	152.29	157.7867	-7.08	7.08	0.05
179	178.61	167.02	164.03	171.31	177.32	152.833	11.20	11.20	0.07
180	166.6	150.31	174.75	164.27	174.87	160.6709	14.08	14.08	0.08
181	155.54	150.82	156.86	177.1	169.55	170.5263	-13.67	13.67	0.09
182	150.47	168.42	168.41	156.77	155.05	160.9599	7.45	7.45	0.04
183	177.8	166.59	170.77	168.73	177.54	166.175	4.60	4.60	0.03
184	157.66	159.58	171.01	174.14	172.87	169.3915	1.62	1.62	0.01
185	168.87	173.83	161.58	156.01	164.9	170.5244	-8.94	8.94	0.06
186	168.02	155.67	150.66	173.39	151.68	164.2633	-13.60	13.60	0.09
187	158.01	150.69	174.69	164.21	175.58	154.741	19.95	19.95	0.11
188	166.08	177.59	154.28	162.25	166.98	168.7053	-14.43	14.43	0.09
189	161.72	159.41	155.31	164.74	173.44	158.6076	-3.30	3.30	0.02
190	171.7	150.95	174.12	154.98	170.96	156.2993	17.82	17.82	0.10
191	169.98	156.53	172.77	173.65	151.84	168.7738	4.00	4.00	0.02
192	177.94	158.79	152.92	173.02	173.86	171.5711	-18.65	18.65	0.12
193	174.42	163.39	154.4	168.86	171.47	158.5153	-4.12	4.12	0.03
194	157.7	164.06	159.07	161.81	151.57	155.6346	3.44	3.44	0.02
195	175.67	158.11	164.02	151.48	152	158.0394	5.98	5.98	0.04
196	176.55	176.83	155.71	173.85	176.55	162.2258	-6.52	6.52	0.04
197	177.86	150.55	170.69	175.19	160.38	157.6647	13.03	13.03	0.08

198	160.82	176.76	171.55	163.5	151.53	166.7824	4.77	4.77	0.03
199	151.16	159.03	163.32	150.92	153.59	170.1197	-6.80	6.80	0.04
200	176.7	156.44	169.24	175.1	173.49	165.3599	3.88	3.88	0.02
201	158.52	158.67	163.55	155.38	179.51	168.076	-4.53	4.53	0.03
202	164.05	152.68	176.4	177.11	172.82	164.9078	11.49	11.49	0.07
203	168.58	164.8	169.93	179	172.03	172.9523	-3.02	3.02	0.02
204	171.79	172.13	174.34	179.92	166.94	170.8367	3.50	3.50	0.02
205	175.71	160.94	168.9	177.39	170.37	173.289	-4.39	4.39	0.03
206	176.01	170.31	174.5	156.82	160.93	170.2167	4.28	4.28	0.02
207	165.96	164.84	177.45	164.52	171.25	173.215	4.23	4.23	0.02
208	156.53	165.78	178.63	171.11	172.62	176.1795	2.45	2.45	0.01
209	168.03	179.8	179.29	164.87	172.76	177.8949	1.40	1.40	0.01
210	177.6	159.55	178.99	159.05	167.5	178.8715	0.12	0.12	0.00
211	175.88	165.51	151.72	165.87	150.6	178.9544	-27.23	27.23	0.18
212	167.11	164.3	170.04	178.39	158.14	159.8903	10.15	10.15	0.06
213	178.3	166.08	158.29	162.42	170.83	166.9951	-8.71	8.71	0.05
214	152.46	154.48	156.37	167.14	173.27	160.9015	-4.53	4.53	0.03
215	173.57	163.69	160.37	171.29	175.1	157.7295	2.64	2.64	0.02
216	156.32	171.85	168.3	160.6	156.75	159.5778	8.72	8.72	0.05
217	170.72	170.5	164.93	155.65	156.03	165.6834	-0.75	0.75	0.00
218	169.41	157.48	179.3	179.25	156.85	165.156	14.14	14.14	0.08
219	151.59	155.9	161.69	167.15	167.05	175.0568	-13.37	13.37	0.08
220	179.88	159.34	158.37	153.11	158.1	165.7	-7.33	7.33	0.05
221	160.19	169.85	167.36	157.72	165.99	160.569	6.79	6.79	0.04
222	167.98	151.29	158.3	152.25	152.6	165.3227	-7.02	7.02	0.04
223	162.35	150.79	172.09	159.85	166.37	160.4068	11.68	11.68	0.07
224	174.73	176.92	151.25	170.72	176.35	168.585	-17.34	17.34	0.11
225	172.92	157.53	151.68	158.84	161.64	156.4505	-4.77	4.77	0.03
226	150.87	157.28	150.03	173.52	179.06	153.1112	-3.08	3.08	0.02
227	160.6	172.29	159.91	164.66	163.06	150.9543	8.96	8.96	0.06
228	178.86	162.51	154.33	171.95	170	157.2233	-2.89	2.89	0.02
229	168.1	178.19	159.95	172.55	171.13	155.198	4.75	4.75	0.03
230	159.67	159.22	169.47	171.24	166.27	158.5244	10.95	10.95	0.06

231	166.48	168.03	159.08	168.74	178.17	166.1863	-7.11	7.11	0.04
232	175.5	162.05	153.94	159.9	176.29	161.2119	-7.27	7.27	0.05
233	163.47	177.58	162.14	152.08	176.97	156.1216	6.02	6.02	0.04
234	172.2	162.87	163.11	162	158.06	160.3345	2.78	2.78	0.02
235	155	171.85	169.21	157.88	170.6	162.2773	6.93	6.93	0.04
236	172.97	153.57	178.89	179.59	156.16	167.1302	11.76	11.76	0.07
237	153.29	163.16	159.65	151.23	173.4	175.3621	-15.71	15.71	0.10
238	151.56	172.03	179.49	172.68	151.38	164.3636	15.13	15.13	0.08
239	150.67	150.42	158.72	165	164.14	174.9521	-16.23	16.23	0.10
240	164.17	179.33	153.86	170.64	163.71	163.5896	-9.73	9.73	0.06
241	174.22	157.05	162.83	158.43	163.18	156.7789	6.05	6.05	0.04
242	168.65	172.04	172.34	161.16	172.08	161.0147	11.33	11.33	0.07
243	155.54	172.67	154.99	164.7	154.59	168.9424	-13.95	13.95	0.09
244	177.47	156.32	156.74	168.21	176.6	159.1757	-2.44	2.44	0.02
245	154.69	161.48	172.33	168.28	177.99	157.4707	14.86	14.86	0.09
246	170.8	151.69	150.37	178.08	161.94	167.8722	-17.50	17.50	0.12
247	156.34	166.61	160.09	161.39	168.21	155.6207	4.47	4.47	0.03
248	152.69	166.35	173.76	173.25	171.15	158.7492	15.01	15.01	0.09
249	154.99	177.28	163.35	163.04	163.1	169.2568	-5.91	5.91	0.04
250	170.37	153.94	165.93	168.61	168.17	165.122	0.81	0.81	0.00
251	170.17	150.92	162.19	169.05	152.51	165.6876	-3.50	3.50	0.02
252	163.23	162.98	170.6	156.69	177.79	163.2393	7.36	7.36	0.04
253	159.44	179.11	163.33	176.85	176.49	168.3918	-5.06	5.06	0.03
254	177.23	175.24	173.03	150.34	161.73	164.8485	8.18	8.18	0.05
255	150.02	178.94	171.91	178.15	156.39	170.5756	1.33	1.33	0.01
256	166.57	162.48	176.89	159.91	169.23	171.5097	5.38	5.38	0.03
257	178.19	155.67	167.64	168.07	173.42	175.2759	-7.64	7.64	0.05
258	169.84	152.22	162.63	159.6	156.39	169.9308	-7.30	7.30	0.04
259	179.51	159.86	168.77	150.25	170.45	164.8202	3.95	3.95	0.02
260	162.15	161.52	165.33	166.24	174.82	167.5851	-2.26	2.26	0.01
261	174.75	150.83	173.38	159.52	151.17	166.0065	7.37	7.37	0.04
262	158.91	173.13	150.84	164.8	175.09	171.168	-20.33	20.33	0.13
263	162.59	166.79	156.03	172.85	158.94	156.9384	-0.91	0.91	0.01

264	156.22	173.68	165.07	155.89	150.92	156.3025	8.77	8.77	0.05
265	175.79	170.39	169.93	173.59	154.05	162.4398	7.49	7.49	0.04
266	177.93	159.81	162.58	161.32	154.88	167.6829	-5.10	5.10	0.03
267	166.24	152.63	173.18	156.01	172.89	164.1109	9.07	9.07	0.05
268	169.3	161.53	152.32	178.21	167.44	170.4593	-18.14	18.14	0.12
269	152.66	151.38	154.73	158.04	176.88	157.7618	-3.03	3.03	0.02
270	163.44	153.96	160.03	157.75	175.96	155.6395	4.39	4.39	0.03
271	175.03	173.92	152.35	159.04	178.89	158.7129	-6.36	6.36	0.04
272	161.95	170.16	168.94	152.21	166.39	154.2589	14.68	14.68	0.09
273	159.09	173.94	155.78	179.61	164.78	164.5357	-8.76	8.76	0.06
274	167.44	169.23	171.75	178.8	154.52	158.4067	13.34	13.34	0.08
275	173.13	168.74	170.2	178.83	150.76	167.747	2.45	2.45	0.01
276	179.92	151.66	172.33	157.17	158.09	169.4641	2.87	2.87	0.02
277	166.66	162.2	166.51	175.96	179.54	171.4702	-4.96	4.96	0.03
278	162.71	168.1	154.58	154.93	152.25	167.9981	-13.42	13.42	0.09
279	174.29	178.19	178.71	172.23	170.21	158.6054	20.10	20.10	0.11
280	159.29	168.83	157.27	151.68	155.64	172.6786	-15.41	15.41	0.10
281	168.92	158.43	165.95	162.17	177.2	161.8926	4.06	4.06	0.02
282	150.19	179.51	156.01	173.44	169.42	164.7328	-8.72	8.72	0.06
283	171.9	171.11	157.45	173.03	170.02	158.6268	-1.18	1.18	0.01
284	166.73	169.34	152.28	169.64	167.59	157.803	-5.52	5.52	0.04
285	166.8	175.21	165.91	165.68	177.74	153.9369	11.97	11.97	0.07
286	165.81	170.13	150.54	179.94	160.8	162.3181	-11.78	11.78	0.08
287	180	169.74	156.43	169	156.62	154.0734	2.36	2.36	0.02
288	159.17	179.7	169.57	167.49	152.97	155.723	13.85	13.85	0.08
289	171.55	162.69	158.33	163.68	167.01	165.4159	-7.09	7.09	0.04
290	161.47	158.51	178.69	153.2	176.9	160.4558	18.23	18.23	0.10
291	162.45	178.58	172.13	166.87	160.28	173.2197	-1.09	1.09	0.01
292	170.87	160.68	159.21	156.84	151.44	172.4569	-13.25	13.25	0.08
293	177.21	162.8	169.12	169.04	161.44	163.1841	5.94	5.94	0.04
294	162.81	157.57	172.06	160.06	165.22	167.3392	4.72	4.72	0.03
295	170.52	170.8	150.07	162.78	179.41	170.6438	-20.57	20.57	0.14
296	154.63	163.31	173.93	171.41	155.27	156.2421	17.69	17.69	0.10

297	153.24	179.15	160.78	165.3	169.54	168.6236	-7.84	7.84	0.05
298	173.04	176.81	172.72	170.28	178.2	163.1331	9.59	9.59	0.06
299	179.7	175.86	155.27	162.12	170.75	169.8439	-14.57	14.57	0.09
300	176.75	156.39	151.82	156.84	177.41	159.6422	-7.82	7.82	0.05
301	157.59	170.35	153.56	177.8	179.4	154.1667	-0.61	0.61	0.00
302	179.15	160.9	179.31	154.4	176.67	153.742	25.57	25.57	0.14
303	174.24	178.2	167.22	157.03	160.14	171.6396	-4.42	4.42	0.03
304	173.49	153.25	179.38	175.7	153.47	168.5459	10.83	10.83	0.06
305	163.48	175.66	165.07	166.62	168.78	176.1298	-11.06	11.06	0.07
306	173.33	156.94	156.17	150.34	168.65	168.3879	-12.22	12.22	0.08
307	162.64	160.65	167.94	150.48	178.09	159.8354	8.10	8.10	0.05
308	169.24	156.5	167.8	159.26	152.48	165.5086	2.29	2.29	0.01
309	167.7	165.55	160.52	158.22	164.27	167.1126	-6.59	6.59	0.04
310	158.24	177.23	175.69	156.88	174.93	162.4978	13.19	13.19	0.08
311	169.44	166.87	151.78	164.34	161.67	171.7323	-19.95	19.95	0.13
312	163.81	165.87	179.57	160.74	173.85	157.7657	21.80	21.80	0.12
313	154.85	155.04	179.78	155.44	177.66	173.0287	6.75	6.75	0.04
314	151.18	159.08	177.26	174.24	173.42	177.7546	-0.49	0.49	0.00
315	157.77	155.04	171.74	164.33	158.28	177.4084	-5.67	5.67	0.03
316	178.44	174.73	152.53	163.14	164.74	173.4405	-20.91	20.91	0.14
317	161.44	155.8	164.6	151.14	171.84	158.8032	5.80	5.80	0.04
318	177.19	177.72	159.16	173.92	164.86	162.8609	-3.70	3.70	0.02
319	163.67	150.33	151.54	157.28	158.33	160.2703	-8.73	8.73	0.06
320	166.36	156.27	172.19	167.66	153.75	154.1591	18.03	18.03	0.10
321	164.7	152.68	177.33	167.94	154.82	166.7807	10.55	10.55	0.06
322	176.7	151.95	152.73	161.09	152.78	174.1652	-21.44	21.44	0.14
323	166.53	165.87	153.18	166.06	152.29	159.1606	-5.98	5.98	0.04
324	155.44	150.47	172.16	176.02	173.24	154.9742	17.19	17.19	0.10
325	154.35	162.89	154.1	156.59	158.6	167.0043	-12.90	12.90	0.08
326	158.15	176.1	160.32	174.45	160.56	157.9713	2.35	2.35	0.01
327	171.08	151.46	168.59	164.44	173.76	159.6154	8.97	8.97	0.05
328	156.19	167.66	175.95	162.75	173.31	165.8976	10.05	10.05	0.06
329	161.5	169.93	158.04	166.9	160.77	172.9343	-14.89	14.89	0.09

330	150.51	175.21	160.65	158.88	157.72	162.5083	-1.86	1.86	0.01
331	153.98	176.17	178.98	158.52	152.49	161.2075	17.77	17.77	0.10
332	159.35	163.97	171.74	169.81	156.55	173.6482	-1.91	1.91	0.01
333	166.27	161.43	153.74	179.58	168.97	172.3125	-18.57	18.57	0.12
334	165.13	173.24	167.18	177.05	167.35	159.3117	7.87	7.87	0.05
335	173.54	154.51	168.3	162.57	152.2	164.8195	3.48	3.48	0.02
336	172.29	168.14	174.34	158.12	162.74	167.2559	7.08	7.08	0.04
337	176.01	168.49	171.38	163.44	173.6	172.2148	-0.83	0.83	0.00
338	150.07	156.94	166.37	176.28	165.05	171.6304	-5.26	5.26	0.03
339	173.18	167.35	157.17	155.93	154.67	167.9481	-10.78	10.78	0.07
340	173.96	167.8	156.43	166.59	157.92	160.4034	-3.97	3.97	0.03
341	158.05	154.97	168.91	160.83	161.43	157.622	11.29	11.29	0.07
342	163.92	160.42	163.9	176.76	178.89	165.5236	-1.62	1.62	0.01
343	158.9	176.74	160.41	173.13	166.68	164.3871	-3.98	3.98	0.02
344	162.53	157.05	163.18	150.24	161.88	161.6031	1.58	1.58	0.01
345	175.19	168.72	172.25	174.82	161.94	162.7069	9.54	9.54	0.06
346	179.38	157.51	177.94	176.98	167.86	169.3871	8.55	8.55	0.05
347	177.64	179.3	165.85	172.59	157.65	175.3741	-9.52	9.52	0.06
348	169.45	165.27	151.42	154.87	152.78	168.7072	-17.29	17.29	0.11
349	158.93	151.47	157.8	154.36	179.79	156.6062	1.19	1.19	0.01
350	169.93	160.92	158.76	161.49	154.5	157.4419	1.32	1.32	0.01
351	157.47	155.63	153.04	169.25	165.01	158.3646	-5.32	5.32	0.03
352	177.92	169.92	156.17	165.94	176.36	154.6374	1.53	1.53	0.01
353	163.96	172.05	167.52	158.84	150.73	155.7102	11.81	11.81	0.07
354	175.62	168.44	154.64	175.02	175.23	163.9771	-9.34	9.34	0.06
355	151.36	152.95	179.56	153.92	170.25	157.4411	22.12	22.12	0.12
356	162.21	153.76	173.58	174.46	151.56	172.9243	0.66	0.66	0.00
357	158.46	167.08	175.55	160.47	173.94	173.3833	2.17	2.17	0.01
358	156.47	177.8	173.51	175.55	159.03	174.9	-1.39	1.39	0.01
359	174.92	164.95	178.04	156.49	171.96	173.927	4.11	4.11	0.02
360	178.23	179.09	160.34	172.53	152.25	176.8061	-16.47	16.47	0.10
361	167.79	175.18	155.65	162.29	172.23	165.2798	-9.63	9.63	0.06
362	174.03	162.65	169.72	167.69	172.4	158.5389	11.18	11.18	0.07

363	173.59	177.64	160.12	172.13	172.64	166.3657	-6.25	6.25	0.04
364	153.55	178.64	155.51	165.43	178.52	161.9937	-6.48	6.48	0.04
365	154.68	154.71	151.89	171.16	161.35	157.4551	-5.57	5.57	0.04
366	153.42	162.45	174.31	155.14	165.43	153.5595	20.75	20.75	0.12
367	167.62	160.67	173.64	168.19	163.53	168.0849	5.56	5.56	0.03
368	158.21	164.24	170.68	156.42	178.54	171.9735	-1.29	1.29	0.01
369	176.14	161.56	179.63	179.07	152.8	171.068	8.56	8.56	0.05
370	179.76	169.59	166.36	159.36	159.96	177.0614	-10.70	10.70	0.06
371	163.06	152.73	166.84	165.9	166.88	169.5704	-2.73	2.73	0.02
372	165.16	160.88	160	174.32	164.57	167.6591	-7.66	7.66	0.05
373	157.42	151.51	151.34	151.53	168.48	162.2977	-10.96	10.96	0.07
374	163.82	156.66	171.58	168.42	167.28	154.6273	16.95	16.95	0.10
375	153.74	175.13	177.65	163.93	156.71	166.4942	11.16	11.16	0.06
376	171.25	154.63	150.84	172.09	164.23	174.3033	-23.46	23.46	0.16
377	164.78	172.76	161.02	150.48	153.08	157.879	3.14	3.14	0.02
378	172.88	156.64	152.66	177.65	158.48	160.0777	-7.42	7.42	0.05
379	163.76	160.71	178.06	161.59	158.63	154.8853	23.17	23.17	0.13
380	177.04	158.74	150.58	168.28	159.7	171.1076	-20.53	20.53	0.14
381	163.35	166.68	172.43	169.04	178.58	156.7383	15.69	15.69	0.09
382	163.14	167.96	153.77	169.96	176.29	167.7225	-13.95	13.95	0.09
383	171.1	175.29	152.31	156.99	165.58	157.9557	-5.65	5.65	0.04
384	164.83	172.43	154.23	170.78	164.44	154.0037	0.23	0.23	0.00
385	172.07	179.99	150.38	158.1	156.9	154.1621	-3.78	3.78	0.03
386	170.16	165.33	159.77	160.63	162.11	151.5146	8.26	8.26	0.05
387	151.88	156.46	163.81	150.27	159.79	157.2934	6.52	6.52	0.04
388	170.99	172.02	151.07	154.96	168.2	161.855	-10.79	10.79	0.07
389	156.73	178.71	169.96	169.47	169.91	154.3055	15.65	15.65	0.09
390	153.99	155.9	157.49	157.19	167.39	165.2637	-7.77	7.77	0.05
391	160.1	158.52	178.98	154.1	162.31	159.8221	19.16	19.16	0.11
392	179.63	164.05	177.34	175.64	167.24	173.2326	4.11	4.11	0.02
393	172.07	173.65	166.83	176.96	171.7	176.1078	-9.28	9.28	0.06
394	155.02	168.81	164.08	171.15	152.51	169.6133	-5.53	5.53	0.03
395	151.22	164.81	176.57	152.91	159.2	165.74	10.83	10.83	0.06

396	160.11	163.97	164.98	174.03	177.06	173.321	-8.34	8.34	0.05
397	167.42	168.57	151.99	166.14	155.91	167.4823	-15.49	15.49	0.10
398	165.94	153.98	153.95	153.62	161.14	156.6377	-2.69	2.69	0.02
399	157.6	166.78	178.74	158.49	158.69	154.7563	23.98	23.98	0.13
400	151.58	163.63	154.54	177.79	170.77	171.5449	-17.00	17.00	0.11

SUM 3676.24 22.29

Aktual Average 165.1749 MAE 9.19 MAPE 6%

547

537.81 546.4879
556.19 547.5121

Urutan	(Aktual - Prediksi)^2	SE	ST
0.004268	31035.8689	27282.76	120.8917
0.050478	4.7961	120.8917	77.52935
0.118545	1.7769	89.53086	116.5336
0.226277	1.5131	108.0597	83.9986
0.251353	480.8824	90.89916	153.6342
0.300862	111.7522	33.82837	22.61074
0.302875	119.0584	2.508067	156.1269
0.331023	187.3226	85.03899	19.93556
0.494613	16.4509	0.128845	19.49156
0.535623	61.5159	10.22805	21.57672
0.606653	1.8416	5.253781	0.874365
0.655664	6.3358	1.801464	1.380449
0.693978	45.0930	0.176225	50.90715
0.736556	198.6820	26.21834	80.55197
0.753351	3.1733	22.52866	8.79167
0.782319	6.5823	12.24639	36.78513
0.807972	15.2125	28.04124	1.946234
0.834757	54.3183	6.580106	23.0873
0.870061	25.0898	6.728296	5.832587
0.907508	9.2580	0.832444	15.64262
0.908387	65.0089	9.255392	123.3227
0.966219	100.2233	75.45064	1.755426
1.078877	55.7509	2.817102	83.6324
1.089732	47.4720	47.68012	190.3041
1.154808	362.6359	137.5478	53.50813
1.176833	26.3898	2.566483	12.49676
1.193829	15.6905	3.975817	35.46292
1.2301	367.5526	22.72177	207.5019
1.293458	411.6233	74.88179	135.375
1.318149	49.6539	30.78612	158.6359
1.333	7.4746	109.8537	174.6382
1.334439	262.7580	153.6332	14.55365

1.357038	39.9052	1.098342	54.24433
1.368636	25.5518	29.92044	0.172287
1.38999	58.7747	3.730846	32.88936
1.395149	0.7570	11.79913	6.57884
1.396452	50.2825	7.985955	18.19086
1.505686	45.1222	4.570059	78.41235
1.532633	1.3336	46.784	32.32008
1.564901	371.5812	36.3792	175.428
1.576875	228.2235	55.68133	58.44717
1.585773	205.5748	9.690488	125.9989
1.618511	1.8732	47.9357	30.85719
1.620134	344.8668	35.58738	158.8879
1.623609	4.1161	49.47572	25.05078
1.697763	0.0632	31.51387	34.3991
1.781362	9.9566	33.52027	80.01437
1.832499	28.0542	63.97525	176.759
1.858285	347.1147	137.0325	47.95459
1.908246	17.8988	1.783883	8.381459
1.908305	142.5447	2.643441	184.0113
2.028823	510.2285	99.66653	158.8841
2.166699	85.8130	33.97087	11.79974
2.19	48.3156	0.430357	39.62608
2.255069	94.7647	17.72109	30.52645
2.291386	16.2376	6.784252	2.030411
2.348725	194.9130	0.046677	188.9271
2.35396	126.3750	91.33123	2.838972
2.356578	3.3581	2.847905	0.021003
2.43572	7.6715	0.163883	5.59287
2.450497	92.5266	2.353156	65.36844
2.452991	17.5920	27.03327	1.010176
2.459359	104.8224	5.122791	63.59943
2.484527	49.3013	24.04372	142.2038
2.514358	76.7999	96.40254	1.112867

2.517111	98.5864	13.57179	39.00096
2.565591	31.6825	10.66908	79.12236
2.640541	271.3065	51.93305	85.83884
2.68769	335.2043	18.69274	195.5823
2.730423	351.4659	72.12255	105.1635
2.733965	2.5147	21.44336	9.271568
2.76975	0.0000	12.39502	12.4251
2.775529	307.9576	12.41607	196.7027
2.78646	24.8541	76.74564	14.25119
2.865897	47.5325	27.78018	147.989
2.893304	261.5234	101.9446	36.90471
3.022338	230.3867	1.496756	194.7441
3.031779	1.9501	88.3887	64.08123
3.042691	97.1986	70.96395	2.05901
3.081154	0.6120	2.318785	5.313371
3.141022	13.4300	4.28647	32.89109
3.155406	14.3596	21.4894	70.98189
3.29759	220.9140	53.11862	57.37949
3.36826	101.6275	9.70928	48.51227
3.435398	2.2671	15.5296	5.92959
3.480477	222.9558	8.333503	145.0802
3.497608	42.7652	57.23548	198.9489
3.503299	91.7409	147.4542	6.57884
3.563841	0.5425	29.57586	38.1297
3.664696	377.4873	35.44962	181.5776
3.700946	377.1865	58.4669	138.6489
3.777747	425.3334	35.3851	215.3578
3.782117	393.7413	72.04599	128.9343
3.789409	0.0917	29.18215	32.54617
3.880082	0.0905	31.5177	34.98634
3.900323	140.4164	33.92674	36.30153
3.902904	68.4769	6.101654	33.69715
3.949769	84.1352	11.03835	156.1232

3.96113	46.4884	94.92932	8.555186
3.973438	6.1729	24.70486	55.57591
3.977083	386.6981	45.01829	167.834
3.996217	136.4366	49.78265	21.38993
4.029585	178.6451	1.256064	149.9419
4.055975	190.4470	67.82065	30.96839
4.057412	150.5548	2.030194	187.551
4.107371	0.1096	100.2782	107.0175
4.113003	613.0919	104.9727	210.6874
4.11534	123.9168	50.22368	16.36142
4.194277	129.0391	0.497571	145.5624
4.230696	248.1299	74.94475	50.34009
4.234989	6.3220	5.614215	0.021003
4.282046	78.9309	0.371347	68.47438
4.283297	117.8247	31.46798	27.51081
4.38901	49.3705	3.954779	81.27158
4.390466	45.5345	47.70874	186.4611
4.419599	0.2869	135.2731	123.1007
4.459129	63.5318	126.6922	10.79172
4.469336	75.1898	32.22017	8.969576
4.525975	213.1998	0.154892	224.8478
4.53153	64.4743	112.668	6.681837
4.595036	1.1640	24.93806	15.32664
4.720777	356.5927	17.96563	214.4782
4.752009	2.4489	80.63997	54.98334
4.767577	22.8433	62.16605	9.641491
4.770513	12.7010	20.60176	0.950771
4.77947	71.8960	4.178865	41.40826
4.923932	112.6516	15.14128	210.3928
4.960231	489.5544	128.1605	116.7496
4.985384	2.8824	17.36649	34.3991
5.008971	245.2566	28.68402	106.1915
5.054883	346.3990	31.43535	169.132

5.061785	7.7644	55.07919	21.48392
5.102926	87.4985	29.93198	219.7828
5.1371	0.9336	144.4529	168.6122
5.140585	2.6248	161.1683	122.6573
5.260427	5.5411	133.6594	193.6293
5.296622	51.7509	174.4747	36.18113
5.324555	51.0960	66.8015	1.050779
5.380332	298.0610	10.04584	198.6669
5.406596	203.9375	79.48778	28.78403
5.482261	234.2675	1.168291	202.3485
5.52305	11.3452	92.79825	39.24929
5.533337	0.0025	52.93149	52.19954
5.553406	32.4314	52.41859	167.3123
5.55514	44.5095	126.0336	20.74734
5.565112	88.7640	42.98622	8.208655
5.62872	63.1459	0.001493	63.76142
5.645745	24.2451	31.37281	110.7772
5.668384	46.6874	81.86441	4.906557
5.694857	68.2251	18.18955	15.95943
5.796845	18.3359	2.301201	7.64564
5.90676	163.1908	2.191765	203.2072
5.935924	339.2086	108.6325	63.91883
5.980565	178.6156	6.099123	118.7027
5.980619	26.4256	47.41232	3.045287
6.018431	116.3772	10.80602	198.1077
6.051112	373.4036	117.478	71.99395
6.245685	15.2327	7.224426	1.476407
6.317057	19.8838	0.001954	19.49156
6.36286	30.0552	9.469076	5.784386
6.483705	49.6275	0.578203	60.9192
6.502137	29.2313	32.39512	0.081268
6.515814	128.1872	3.636855	88.64081
6.516609	30.8403	36.22031	0.216155

6.539512	0.4816	4.540935	7.980201
6.592584	43.9809	6.847284	16.12083
6.631807	167.4555	4.102784	119.1356
6.671543	42.2778	49.4601	183.1942
6.715133	6.0484	134.1956	83.26426
6.717305	80.2423	97.27349	0.818889
6.747924	245.4656	12.90438	145.8074
6.75129	67.2367	54.38874	0.680501
6.790988	79.7438	2.673271	53.21593
6.799727	76.3698	21.30693	178.354
6.818243	3.6416	115.2022	77.8793
6.832821	0.8236	88.31144	106.1915
6.889996	14.2714	100.6545	39.12409
6.894385	50.0793	54.58623	209.2341
6.932659	125.3727	152.323	1.310853
6.950941	198.2210	20.28623	91.68206
7.021485	186.7669	28.6369	69.13798
7.022704	55.5043	17.7666	10.46571
7.026412	21.1144	1.000079	31.30486
7.044678	2.6196	17.77941	34.0481
7.046551	80.0031	28.61738	12.92349
7.076676	185.0507	0.830998	210.683
7.084143	397.9626	108.8668	90.53665
7.085908	208.0893	12.46355	118.6994
7.091018	10.8741	43.12989	97.31675
7.106319	317.5782	78.77713	80.01437
7.148144	15.9697	12.95178	57.68516
7.193812	347.8648	40.9115	150.1832
7.271896	16.9360	44.35007	116.099
7.30077	11.8020	91.01776	37.27011
7.33004	35.7678	50.91599	1.333852
7.360717	42.4558	8.697255	89.58481
7.370097	169.6573	56.40281	30.41605

7.373479	22.7298	2.584051	40.64158
7.417693	46.2363	24.45107	3.440747
7.450119	15.0550	0.034222	16.52483
7.466653	20.4845	8.416094	2.640381
7.490245	132.0708	0.07136	126.0023
7.6359	9.1345	60.48815	22.61074
7.659127	12.2731	32.05571	83.9986
7.666465	19.2634	65.83838	13.87618
7.773652	18.3466	25.41953	86.95702
7.822178	17.9351	64.64298	150.6775
7.843207	6.0049	121.1007	181.039
7.843639	1.9464	161.7965	199.2353
7.868258	0.0141	187.5949	190.8563
7.946439	741.7145	189.8749	181.035
7.970687	103.0158	27.92693	23.66895
8.029591	75.7788	3.313034	47.40219
8.062807	20.5348	18.26191	77.5267
8.104621	6.9725	55.43496	23.0873
8.181465	76.0761	31.32739	9.766094
8.199797	0.5675	0.258497	0.059988
8.255365	200.0526	0.000358	199.5177
8.259846	178.6714	97.65149	12.1447
8.275078	53.7295	0.275746	46.307
8.341	46.1175	21.21443	4.774553
8.479152	49.3184	0.021839	47.26459
8.552919	136.4969	22.73491	47.81826
8.561963	300.5037	11.62891	193.9035
8.671206	22.7578	76.11536	182.113
8.705099	9.4935	145.5346	229.3688
8.722162	80.2037	202.2249	27.71944
8.722776	8.3712	63.22828	117.6124
8.730284	22.5816	99.53921	27.29984
8.738982	119.8062	44.22952	18.44767

8.755657	50.4998	1.022918	37.14811
8.763555	52.8805	15.7056	126.2235
8.767484	36.2215	81.96326	9.21077
8.884308	7.7036	23.43	4.263915
8.929939	48.0618	8.395992	16.28183
8.944447	138.2928	3.82311	188.1033
8.955654	246.8689	103.7777	30.5248
8.957808	228.8074	0.658219	204.9214
8.974617	263.4806	95.59287	41.66606
9.069122	94.6656	2.513174	128.0275
9.172523	36.6160	70.49344	5.498673
9.263529	128.2632	17.30775	51.3383
9.277789	194.6695	14.19387	103.7327
9.337063	5.9327	35.99046	71.14796
9.354062	220.7983	59.35484	51.1951
9.421463	306.3275	7.275372	219.1858
9.524124	19.9750	91.28389	25.85646
9.543063	225.3241	41.28995	73.70351
9.578146	34.8898	16.66138	3.330351
9.586908	0.6528	0.002798	0.570138
9.619075	12.2333	0.262844	8.909777
9.62983	54.1802	3.746712	29.43144
9.729626	25.6217	10.34819	3.403748
9.734718	66.9364	0.10653	61.7022
9.858935	1.7807	29.16687	45.36124
9.929066	28.9480	40.12897	137.243
10.01116	58.3070	102.0297	6.076595
10.05239	53.3012	22.61806	6.476643
10.08105	15.6007	0.125808	12.92456
10.14967	5.0853	5.808796	0.024048
10.23828	54.3682	0.691552	67.32326
10.54927	413.2258	35.91642	205.4901
10.57129	0.8252	67.84056	83.62965

10.61375	76.8688	78.71964	0.011009
10.70141	56.1038	7.481156	22.61074
10.77813	26.0399	6.290071	6.733636
10.78502	82.2490	1.132196	64.08123
10.78782	329.0329	27.92423	165.2491
10.83	9.1917	54.95473	109.0965
10.83412	19.2762	90.92369	26.47025
10.85471	40.4860	41.75828	164.4787
10.91139	215.5359	119.1605	14.17579
10.9456	76.6615	0.408663	88.26462
10.95774	178.0437	45.80891	43.23161
11.05976	6.0172	6.615617	25.25138
11.13179	8.2134	18.39705	51.1951
11.1558	24.6039	39.63088	1.782425
11.18105	180.0446	7.970143	112.2524
11.197	404.1941	43.15839	183.1983
11.24166	237.4258	56.30553	62.48784
11.28797	16.4626	10.77374	0.600741
11.32198	76.0868	0.195495	83.99585
11.32533	1.3849	42.87751	59.67447
11.35954	30.5041	54.34454	166.2791
11.49221	143.3548	126.2929	0.540335
11.68061	138.7230	8.161595	214.181
11.68319	5.5535	123.2434	76.47371
11.7598	191.7387	89.33838	19.31668
11.77807	50.2101	0.058073	46.853
11.80979	332.4871	22.2704	182.6573
11.84974	1.1875	64.71892	48.37307
11.93921	175.4809	53.02744	35.58033
11.97309	35.2352	3.96348	15.56362
12.21793	22.2857	4.684185	47.40426
12.27008	423.2799	29.90823	228.1588
12.77461	312.8607	79.79483	76.65134

12.90425	61.5227	11.89363	19.31537
12.94046	91.9088	4.169083	56.92816
13.02526	212.3994	21.79958	98.10754
13.19222	61.1865	30.61129	178.354
13.24692	0.3680	121.182	134.9065
13.3433	653.7228	130.7119	199.8003
13.36472	19.5329	41.79201	4.182332
13.36582	117.3782	11.36334	201.7842
13.3668	122.3184	120.0085	0.011009
13.41807	149.2778	10.3234	81.08867
13.60333	65.6849	28.51075	7.64564
13.66627	5.2505	0.111348	6.891019
13.68658	43.4622	3.754523	21.66833
13.80025	174.0348	7.167131	110.5668
13.84697	398.0956	42.99959	179.424
13.9524	475.4275	54.89662	207.2182
13.95248	45.5799	61.68194	213.3082
13.96112	0.2446	158.2485	146.049
14.0791	32.1306	149.6575	43.10021
14.09546	437.2496	68.31998	159.8941
14.14399	33.6034	40.59946	0.330539
14.28067	13.6970	5.354497	36.17932
14.33788	76.2179	24.0555	185.9112
14.4253	325.1139	121.3487	49.21128
14.57393	111.2872	2.578595	147.7458
14.60136	459.4686	80.82536	154.8762
14.68114	35.7672	36.17252	143.8782
14.85928	295.3528	104.0554	48.79127
14.86318	166.5197	3.346433	122.654
14.89428	5.5165	51.89257	23.5703
14.93171	80.5438	30.90851	11.66274
15.0108	101.0504	0.522281	116.1022
15.10707	221.8397	60.20766	50.90715

15.12638	3.4532	7.110967	20.47495
15.17849	315.8623	15.74058	190.5801
15.3058	3.6414	71.79716	43.10021
15.40863	344.9368	50.9446	130.7575
15.4923	61.9095	34.37691	4.020326
15.65449	12.1137	0.126311	9.766094
15.66067	50.1851	4.330277	83.9986
15.66734	0.6968	49.55924	38.50296
15.69172	27.6721	41.67351	1.428204
15.71206	116.1680	7.690656	64.07882
15.75214	15.7882	22.76708	76.47371
16.17168	127.4182	57.0462	13.95079
16.20981	2.6361	0.121581	1.625434
16.23209	15.8172	0.620695	22.70451
16.4661	2.4865	12.75776	3.979726
16.47138	91.0700	6.090963	50.05669
16.95268	73.1524	17.74226	162.9471
17.00489	90.7089	104.0237	0.455726
17.18583	298.8486	12.47723	189.198
17.26444	1.4252	73.42354	54.38952
17.28724	1.7375	59.80043	41.15126
17.33504	28.3509	46.38113	147.2564
17.50221	2.3490	111.0401	81.08867
17.54872	139.4711	89.58083	5.499377
17.68787	87.1807	1.434873	110.9846
17.77251	489.2449	59.81176	206.9304
17.82072	0.4299	60.05337	70.64529
18.03091	4.6946	67.37743	107.6422
18.13926	1.9321	94.57689	69.47348
18.23423	16.9168	76.59877	165.5102
18.30858	271.1324	135.2842	23.3765
18.41762	92.7336	0.011005	90.7242
18.57059	125.0159	44.03618	20.65771

18.57247	39.0086	1.417909	25.55227
18.6118	42.0384	10.12016	93.41078
18.63101	30.9705	59.59552	176.4892
18.65113	430.5819	134.9173	83.4496
18.74742	30.8596	8.467722	71.65749
18.88366	1.6730	46.22005	30.30585
19.043	73.3072	34.72877	208.9492
19.1579	114.5202	141.2886	1.404403
19.17166	7.4552	19.32041	2.772475
19.27644	58.6622	6.17126	26.77985
19.32365	120.0720	8.278204	191.4051
19.42129	287.3933	111.2519	41.02499
19.42903	124.4520	1.740477	155.6275
19.66464	550.5245	83.32648	205.4901
19.84292	9.8660	53.23085	17.2634
19.949	55.0222	25.98177	156.6233
19.95233	537.0663	105.8762	166.0252
20.10458	421.3820	35.19654	213.0118
20.2885	246.2301	71.17702	52.63611
20.32796	194.6718	6.490053	130.0723
20.52759	31.8744	52.11656	165.5063
20.57377	0.0512	124.7957	119.7914
20.62361	14.3044	121.2819	218.8898
20.75047	68.1510	186.6035	29.21321
20.91052	42.4662	62.11859	1.86302
21.43522	116.3166	11.02179	198.9489
21.8043	245.0632	118.1443	22.89694
21.92903	60.4297	0.007872	59.05807
22.11888	367.0253	28.65278	190.5801
22.12588	16.8705	64.92659	147.989
22.58824	86.0774	119.5275	2.739273
23.17469	30.6178	19.6995	1.198861
23.46326	117.2889	0.319311	129.8477

23.98369	69.5723	66.35854	0.037996
24.76069	240.0114	5.32398	173.8422
25.568	7.2237	72.88438	125.9989
27.23444	575.2175	108.5476	184.0113
Urutan	289.1664	40.57648	113.1016

			76285.2145	45192.84	31476.82
MedAE	7.450119	MSE	190.7100	R2	1.43575
		RMSE	13.80977914		
	539.5499		356		
	554.4501		738		

Data	Aktual1	Aktual2	Aktual3	Aktual4	Aktual5
1	514	540	518	509	549
2	509	538	531	524	526
3	523	534	542	527	506
4	515	527	505	540	529
5	549	549	508	519	525
6	501	546	516	509	522
7	532	504	516	536	512
8	534	506	537	500	518
9	517	520	540	516	545
10	547	502	520	505	536
11	526	518	544	537	510
12	527	544	506	515	532
13	523	531	542	516	522
14	525	505	536	530	520
15	545	508	529	522	539
16	532	515	550	535	527
17	519	540	521	524	504
18	537	538	503	547	545
19	548	513	539	543	534
20	543	540	544	530	528
21	543	535	503	523	549
22	515	543	519	538	531
23	521	512	514	512	514
24	516	533	505	505	501
25	507	513	507	528	537
26	530	527	548	536	507
27	550	536	528	507	547
28	508	542	530	531	501
29	527	510	511	506	544
30	508	522	538	521	525
31	519	504	516	542	542
32	521	523	508	541	535

Prediksi	a	Aktual - Prediksi	ABS	ABS/Aktual
0		518.00	518.00	1.00
518		13.00	13.00	0.02
527.1		14.90	14.90	0.03
537.53		-32.53	32.53	0.06
514.759		-6.76	6.76	0.01
510.0277		5.97	5.97	0.01
514.2083		1.79	1.79	0.00
515.4625		21.54	21.54	0.04
530.5387		9.46	9.46	0.02
537.1616		-17.16	17.16	0.03
525.1485		18.85	18.85	0.03
538.3445		-32.34	32.34	0.06
515.7034		26.30	26.30	0.05
534.111		1.89	1.89	0.00
535.4333		-6.43	6.43	0.01
530.93		19.07	19.07	0.03
544.279		-23.28	23.28	0.04
527.9837		-24.98	24.98	0.05
510.4951		28.50	28.50	0.05
530.4485		13.55	13.55	0.02
539.9346		-36.93	36.93	0.07
514.0804		4.92	4.92	0.01
517.5241		-3.52	3.52	0.01
515.0572		-10.06	10.06	0.02
508.0172		-1.02	1.02	0.00
507.3052		40.69	40.69	0.07
535.7915		-7.79	7.79	0.01
530.3375		-0.34	0.34	0.00
530.1012		-19.10	19.10	0.04
516.7304		21.27	21.27	0.04
531.6191		-15.62	15.62	0.03
520.6857		-12.69	12.69	0.02

33	547	531	507	502	523	511.8057	-4.81	4.81	0.01
34	508	512	502	512	500	508.4417	-6.44	6.44	0.01
35	525	511	515	521	529	503.9325	11.07	11.07	0.02
36	510	518	520	515	508	511.6798	8.32	8.32	0.02
37	534	549	503	507	536	517.5039	-14.50	14.50	0.03
38	542	525	511	543	502	507.3512	3.65	3.65	0.01
39	546	514	543	503	538	509.9054	33.09	33.09	0.06
40	522	541	500	529	544	533.0716	-33.07	33.07	0.07
41	509	517	545	505	533	509.9215	35.08	35.08	0.06
42	531	528	539	535	549	534.4764	4.52	4.52	0.01
43	515	538	521	525	521	537.6429	-16.64	16.64	0.03
44	538	523	520	528	513	525.9929	-5.99	5.99	0.01
45	532	532	522	528	511	521.7979	0.20	0.20	0.00
46	507	549	510	544	505	521.9394	-11.94	11.94	0.02
47	505	514	532	526	533	513.5818	18.42	18.42	0.03
48	544	520	518	542	509	526.4745	-8.47	8.47	0.02
49	540	530	532	539	518	520.5424	11.46	11.46	0.02
50	516	502	520	540	540	528.5627	-8.56	8.56	0.02
51	502	535	510	517	531	522.5688	-12.57	12.57	0.02
52	547	508	523	518	546	513.7706	9.23	9.23	0.02
53	542	506	510	537	503	520.2312	-10.23	10.23	0.02
54	510	523	539	526	531	513.0694	25.93	25.93	0.05
55	508	544	518	515	506	531.2208	-13.22	13.22	0.03
56	545	506	544	539	516	521.9662	22.03	22.03	0.04
57	503	506	515	517	521	537.3899	-22.39	22.39	0.04
58	522	522	521	518	535	521.717	-0.72	0.72	0.00
59	547	526	513	526	512	521.2151	-8.22	8.22	0.02
60	522	519	535	517	522	515.4645	19.54	19.54	0.04
61	520	530	539	535	521	529.1394	9.86	9.86	0.02
62	548	510	529	525	520	536.0418	-7.04	7.04	0.01
63	545	513	542	536	543	531.1125	10.89	10.89	0.02
64	500	522	522	545	536	538.7338	-16.73	16.73	0.03
65	520	521	532	534	513	527.0201	4.98	4.98	0.01

66	508	507	549	517	535	530.506	18.49	18.49	0.03
67	502	528	507	539	521	543.4518	-36.45	36.45	0.07
68	536	514	522	502	538	517.9355	4.06	4.06	0.01
69	528	536	526	512	532	520.7807	5.22	5.22	0.01
70	504	523	542	517	539	524.4342	17.57	17.57	0.03
71	538	526	530	548	511	536.7303	-6.73	6.73	0.01
72	529	547	509	529	513	532.0191	-23.02	23.02	0.05
73	546	508	546	531	539	515.9057	30.09	30.09	0.06
74	502	521	526	517	520	536.9717	-10.97	10.97	0.02
75	509	504	542	542	529	529.2915	12.71	12.71	0.02
76	550	502	531	540	509	538.1875	-7.19	7.19	0.01
77	526	532	518	515	523	533.1562	-15.16	15.16	0.03
78	532	518	506	518	550	522.5469	-16.55	16.55	0.03
79	539	515	524	525	514	510.9641	13.04	13.04	0.02
80	543	512	511	545	546	520.0892	-9.09	9.09	0.02
81	508	514	517	526	546	513.7268	3.27	3.27	0.01
82	505	534	523	501	533	516.018	6.98	6.98	0.01
83	531	547	529	518	545	520.9054	8.09	8.09	0.02
84	544	539	523	503	503	526.5716	-3.57	3.57	0.01
85	519	510	549	533	543	524.0715	24.93	24.93	0.05
86	520	505	534	507	534	541.5214	-7.52	7.52	0.01
87	538	537	539	510	549	536.2564	2.74	2.74	0.01
88	506	519	534	503	500	538.1769	-4.18	4.18	0.01
89	546	517	515	525	520	535.2531	-20.25	20.25	0.04
90	501	536	517	549	536	521.0759	-4.08	4.08	0.01
91	537	531	525	514	536	518.2228	6.78	6.78	0.01
92	505	525	535	519	550	522.9668	12.03	12.03	0.02
93	515	508	543	533	535	531.39	11.61	11.61	0.02
94	510	516	539	506	535	539.517	-0.52	0.52	0.00
95	506	545	546	515	547	539.1551	6.84	6.84	0.01
96	549	522	546	532	508	543.9465	2.05	2.05	0.00
97	512	511	548	503	509	545.384	2.62	2.62	0.00
98	504	509	520	505	502	547.2152	-27.22	27.22	0.05

99	543	542	513	520	514	528.1646	-15.16	15.16	0.03
100	505	517	528	518	544	517.5494	10.45	10.45	0.02
101	547	522	519	534	511	524.8648	-5.86	5.86	0.01
102	509	502	516	521	538	520.7594	-4.76	4.76	0.01
103	518	534	533	520	545	517.4278	15.57	15.57	0.03
104	504	543	549	515	522	528.3283	20.67	20.67	0.04
105	513	506	534	506	543	542.7985	-8.80	8.80	0.02
106	530	505	529	521	508	536.6396	-7.64	7.64	0.01
107	529	527	514	509	531	531.2919	-17.29	17.29	0.03
108	504	507	515	533	522	519.1876	-4.19	4.19	0.01
109	545	535	526	537	527	516.2563	9.74	9.74	0.02
110	542	508	536	501	545	523.0769	12.92	12.92	0.02
111	506	520	516	535	504	532.1231	-16.12	16.12	0.03
112	534	532	512	526	506	520.8369	-8.84	8.84	0.02
113	549	526	526	529	513	514.6511	11.35	11.35	0.02
114	531	532	515	541	522	522.5953	-7.60	7.60	0.01
115	520	504	506	516	500	517.2786	-11.28	11.28	0.02
116	538	519	506	520	538	509.3836	-3.38	3.38	0.01
117	540	542	518	512	522	507.0151	10.98	10.98	0.02
118	526	501	530	549	508	514.7045	15.30	15.30	0.03
119	509	503	528	529	532	525.4114	2.59	2.59	0.00
120	527	526	516	550	503	527.2234	-11.22	11.22	0.02
121	520	521	541	501	521	519.367	21.63	21.63	0.04
122	540	521	531	513	514	534.5101	-3.51	3.51	0.01
123	525	514	502	504	524	532.053	-30.05	30.05	0.06
124	510	505	542	541	546	511.0159	30.98	30.98	0.06
125	546	548	525	535	501	532.7048	-7.70	7.70	0.01
126	539	539	506	513	547	527.3114	-21.31	21.31	0.04
127	503	527	537	536	521	512.3934	24.61	24.61	0.05
128	540	547	532	511	526	529.618	2.38	2.38	0.00
129	541	510	511	503	511	531.2854	-20.29	20.29	0.04
130	509	537	541	531	521	517.0856	23.91	23.91	0.04
131	547	507	527	544	516	533.8257	-6.83	6.83	0.01

132	505	545	519	544	543	529.0477	-10.05	10.05	0.02
133	543	518	516	510	526	522.0143	-6.01	6.01	0.01
134	505	515	536	515	502	517.8043	18.20	18.20	0.03
135	535	518	539	543	511	530.5413	8.46	8.46	0.02
136	506	508	536	526	515	536.4624	-0.46	0.46	0.00
137	537	537	502	536	503	536.1387	-34.14	34.14	0.07
138	520	544	501	540	510	512.2416	-11.24	11.24	0.02
139	537	528	550	524	518	504.3725	45.63	45.63	0.08
140	537	538	549	521	505	536.3117	12.69	12.69	0.02
141	527	503	518	530	531	545.1935	-27.19	27.19	0.05
142	541	515	534	526	547	526.1581	7.84	7.84	0.01
143	544	509	501	518	526	531.6474	-30.65	30.65	0.06
144	522	542	532	501	507	510.1942	21.81	21.81	0.04
145	504	541	543	526	530	525.4583	17.54	17.54	0.03
146	538	505	543	543	550	537.7375	5.26	5.26	0.01
147	513	530	518	532	543	541.4212	-23.42	23.42	0.05
148	514	536	500	541	538	525.0264	-25.03	25.03	0.05
149	525	512	530	505	529	507.5079	22.49	22.49	0.04
150	546	506	540	510	506	523.2524	16.75	16.75	0.03
151	501	519	541	502	523	534.9757	6.02	6.02	0.01
152	521	505	507	528	535	539.1927	-32.19	32.19	0.06
153	526	538	520	504	507	516.6578	3.34	3.34	0.01
154	503	508	510	542	506	518.9973	-9.00	9.00	0.02
155	519	547	508	512	544	512.6992	-4.70	4.70	0.01
156	512	545	528	511	511	509.4098	18.59	18.59	0.04
157	504	530	502	524	549	522.4229	-20.42	20.42	0.04
158	511	530	510	538	533	508.1269	1.87	1.87	0.00
159	523	502	525	532	518	509.4381	15.56	15.56	0.03
160	501	542	502	505	507	520.3314	-18.33	18.33	0.04
161	503	503	512	504	515	507.4994	4.50	4.50	0.01
162	545	525	504	536	507	510.6498	-6.65	6.65	0.01
163	549	519	505	509	536	505.9949	-0.99	0.99	0.00
164	507	528	550	503	517	505.2985	44.70	44.70	0.08

165	522	523	517	548	530	536.5895	-19.59	19.59	0.04
166	533	522	539	501	501	522.8769	16.12	16.12	0.03
167	541	501	549	516	503	534.1631	14.84	14.84	0.03
168	503	534	509	503	517	544.5489	-35.55	35.55	0.07
169	514	509	502	509	517	519.6647	-17.66	17.66	0.04
170	517	506	542	513	503	507.2994	34.70	34.70	0.06
171	541	544	522	534	539	531.5898	-9.59	9.59	0.02
172	539	540	527	512	541	524.8769	2.12	2.12	0.00
173	504	547	544	542	502	526.3631	17.64	17.64	0.03
174	530	525	501	507	546	538.7089	-37.71	37.71	0.08
175	516	531	525	542	501	512.3127	12.69	12.69	0.02
176	523	507	503	517	544	521.1938	-18.19	18.19	0.04
177	543	545	517	515	538	508.4581	8.54	8.54	0.02
178	534	508	549	524	502	514.4374	34.56	34.56	0.06
179	545	521	537	527	534	538.6312	-1.63	1.63	0.00
180	544	524	518	511	525	537.4894	-19.49	19.49	0.04
181	520	546	542	510	546	523.8468	18.15	18.15	0.03
182	508	531	514	515	537	536.554	-22.55	22.55	0.04
183	542	528	538	512	542	520.7662	17.23	17.23	0.03
184	543	521	538	509	505	532.8299	5.17	5.17	0.01
185	516	505	537	549	519	536.449	0.55	0.55	0.00
186	545	529	500	547	531	536.8347	-36.83	36.83	0.07
187	544	519	527	527	542	511.0504	15.95	15.95	0.03
188	521	506	538	545	521	522.2151	15.78	15.78	0.03
189	536	513	510	516	546	533.2645	-23.26	23.26	0.05
190	510	502	524	516	547	516.9794	7.02	7.02	0.01
191	544	544	544	520	531	521.8938	22.11	22.11	0.04
192	529	515	542	511	539	537.3681	4.63	4.63	0.01
193	541	523	524	500	507	540.6104	-16.61	16.61	0.03
194	510	510	526	514	521	528.9831	-2.98	2.98	0.01
195	505	525	504	521	537	526.8949	-22.89	22.89	0.05
196	526	509	519	550	550	510.8685	8.13	8.13	0.02
197	517	528	523	525	538	516.5605	6.44	6.44	0.01

198	522	526	500	546	507	521.0682	-21.07	21.07	0.04
199	516	502	532	528	528	506.3204	25.68	25.68	0.05
200	545	502	520	511	517	524.2961	-4.30	4.30	0.01
201	548	535	524	540	542	521.2888	2.71	2.71	0.01
202	519	528	509	524	502	523.1867	-14.19	14.19	0.03
203	511	536	523	530	521	513.256	9.74	9.74	0.02
204	525	537	530	522	534	520.0768	9.92	9.92	0.02
205	549	539	543	534	508	527.023	15.98	15.98	0.03
206	542	528	511	542	509	538.2069	-27.21	27.21	0.05
207	513	523	507	544	514	519.1621	-12.16	12.16	0.02
208	534	544	522	511	537	510.6486	11.35	11.35	0.02
209	527	519	521	523	504	518.5946	2.41	2.41	0.00
210	510	539	524	500	523	520.2784	3.72	3.72	0.01
211	532	509	521	538	550	522.8835	-1.88	1.88	0.00
212	511	530	529	546	547	521.5651	7.43	7.43	0.01
213	529	545	500	545	514	526.7695	-26.77	26.77	0.05
214	501	530	546	534	510	508.0309	37.97	37.97	0.07
215	549	509	535	523	505	534.6093	0.39	0.39	0.00
216	522	501	513	526	511	534.8828	-21.88	21.88	0.04
217	536	514	520	507	541	519.5648	0.44	0.44	0.00
218	537	534	509	522	508	519.8694	-10.87	10.87	0.02
219	511	506	541	506	523	512.2608	28.74	28.74	0.05
220	513	513	526	519	521	532.3783	-6.38	6.38	0.01
221	549	547	523	516	545	527.9135	-4.91	4.91	0.01
222	529	542	527	540	514	524.474	2.53	2.53	0.00
223	536	522	534	528	518	526.2422	7.76	7.76	0.01
224	518	545	515	512	534	531.6727	-16.67	16.67	0.03
225	518	547	511	512	516	520.0018	-9.00	9.00	0.02
226	547	539	505	538	544	513.7005	-8.70	8.70	0.02
227	546	548	535	542	539	507.6102	27.39	27.39	0.05
228	512	518	505	525	529	526.783	-21.78	21.78	0.04
229	525	537	537	540	545	511.5349	25.47	25.47	0.05
230	534	512	501	524	535	529.3605	-28.36	28.36	0.06

231	508	517	531	537	502	509.5081	21.49	21.49	0.04
232	547	507	550	534	524	524.5524	25.45	25.45	0.05
233	507	536	530	533	534	542.3657	-12.37	12.37	0.02
234	504	549	531	506	535	533.7097	-2.71	2.71	0.01
235	509	516	544	550	507	531.8129	12.19	12.19	0.02
236	516	528	518	511	511	540.3439	-22.34	22.34	0.04
237	501	528	523	539	515	524.7032	-1.70	1.70	0.00
238	546	542	529	535	521	523.5109	5.49	5.49	0.01
239	521	534	533	513	537	527.3533	5.65	5.65	0.01
240	520	531	519	530	531	531.306	-12.31	12.31	0.02
241	539	536	515	509	539	522.6918	-7.69	7.69	0.01
242	519	550	532	525	536	517.3075	14.69	14.69	0.03
243	532	540	517	543	548	527.5923	-10.59	10.59	0.02
244	549	535	504	540	535	520.1777	-16.18	16.18	0.03
245	507	509	541	510	504	508.8533	32.15	32.15	0.06
246	527	508	548	536	526	531.356	16.64	16.64	0.03
247	515	506	523	510	529	543.0068	-20.01	20.01	0.04
248	544	522	520	517	550	529.002	-9.00	9.00	0.02
249	537	515	528	520	535	522.7006	5.30	5.30	0.01
250	548	540	529	504	531	526.4102	2.59	2.59	0.00
251	503	505	511	535	543	528.2231	-17.22	17.22	0.03
252	517	503	542	510	538	516.1669	25.83	25.83	0.05
253	542	502	542	542	540	534.2501	7.75	7.75	0.01
254	531	540	530	532	535	539.675	-9.68	9.68	0.02
255	545	538	542	532	524	532.9025	9.10	9.10	0.02
256	501	542	526	502	540	539.2708	-13.27	13.27	0.03
257	500	547	502	507	537	529.9812	-27.98	27.98	0.06
258	530	539	505	504	504	510.3944	-5.39	5.39	0.01
259	534	523	512	507	540	506.6183	5.38	5.38	0.01
260	531	549	511	520	511	510.3855	0.61	0.61	0.00
261	513	543	522	540	511	510.8156	11.18	11.18	0.02
262	528	506	506	525	506	518.6447	-12.64	12.64	0.02
263	534	549	543	508	506	509.7934	33.21	33.21	0.06

264	529	509	531	529	530	533.038	-2.04	2.04	0.00
265	531	542	507	503	539	531.6114	-24.61	24.61	0.05
266	516	510	536	507	525	514.3834	21.62	21.62	0.04
267	526	537	511	547	504	529.515	-18.52	18.52	0.04
268	535	545	525	521	542	516.5545	8.45	8.45	0.02
269	537	527	546	537	545	522.4664	23.53	23.53	0.04
270	513	540	546	527	502	538.9399	7.06	7.06	0.01
271	501	517	510	536	516	543.882	-33.88	33.88	0.07
272	508	531	532	513	519	520.1646	11.84	11.84	0.02
273	529	519	529	544	519	528.4494	0.55	0.55	0.00
274	520	520	544	534	533	528.8348	15.17	15.17	0.03
275	510	521	530	529	540	539.4504	-9.45	9.45	0.02
276	538	543	518	540	524	532.8351	-14.84	14.84	0.03
277	520	522	511	519	512	522.4505	-11.45	11.45	0.02
278	520	531	535	547	501	514.4352	20.56	20.56	0.04
279	524	521	500	506	543	528.8305	-28.83	28.83	0.06
280	504	513	518	539	539	508.6492	9.35	9.35	0.02
281	548	522	515	533	550	515.1947	-0.19	0.19	0.00
282	536	525	526	548	512	515.0584	10.94	10.94	0.02
283	521	522	516	504	513	522.7175	-6.72	6.72	0.01
284	517	545	546	543	503	518.0153	27.98	27.98	0.05
285	534	506	532	545	529	537.6046	-5.60	5.60	0.01
286	514	531	512	539	502	533.6814	-21.68	21.68	0.04
287	522	519	524	503	534	518.5044	5.50	5.50	0.01
288	505	530	506	526	512	522.3513	-16.35	16.35	0.03
289	510	503	520	533	515	510.9054	9.09	9.09	0.02
290	515	540	538	528	519	517.2716	20.73	20.73	0.04
291	545	537	537	549	503	531.7815	5.22	5.22	0.01
292	530	502	522	507	540	535.4344	-13.43	13.43	0.03
293	525	518	526	502	508	526.0303	-0.03	0.03	0.00
294	535	545	504	516	512	526.0091	-22.01	22.01	0.04
295	548	513	501	521	512	510.6027	-9.60	9.60	0.02
296	529	535	531	547	535	503.8808	27.12	27.12	0.05

297	518	511	527	509	512	522.8642	4.14	4.14	0.01
298	518	508	501	521	537	525.7593	-24.76	24.76	0.05
299	537	538	538	519	543	508.4278	29.57	29.57	0.05
300	519	525	525	538	513	529.1283	-4.13	4.13	0.01
301	517	502	537	540	508	526.2385	10.76	10.76	0.02
302	542	506	520	542	523	533.7716	-13.77	13.77	0.03
303	532	528	525	549	524	524.1315	0.87	0.87	0.00
304	502	528	547	536	515	524.7394	22.26	22.26	0.04
305	521	515	545	501	527	540.3218	4.68	4.68	0.01
306	530	545	529	504	527	543.5965	-14.60	14.60	0.03
307	523	515	549	523	535	533.379	15.62	15.62	0.03
308	517	528	513	527	531	544.3137	-31.31	31.31	0.06
309	512	547	545	535	512	522.3941	22.61	22.61	0.04
310	529	549	520	520	538	538.2182	-18.22	18.22	0.04
311	514	521	510	512	519	525.4655	-15.47	15.47	0.03
312	520	520	521	540	549	514.6396	6.36	6.36	0.01
313	506	543	542	532	536	519.0919	22.91	22.91	0.04
314	511	547	535	514	535	535.1276	-0.13	0.13	0.00
315	545	536	518	541	518	535.0383	-17.04	17.04	0.03
316	516	515	520	505	532	523.1115	-3.11	3.11	0.01
317	513	543	538	513	500	520.9334	17.07	17.07	0.03
318	502	547	524	525	528	532.88	-8.88	8.88	0.02
319	524	529	521	523	523	526.664	-5.66	5.66	0.01
320	513	538	507	530	549	522.6992	-15.70	15.70	0.03
321	537	535	535	512	533	511.7098	23.29	23.29	0.04
322	546	524	521	513	508	528.0129	-7.01	7.01	0.01
323	502	549	524	537	544	523.1039	0.90	0.90	0.00
324	547	540	532	527	545	523.7312	8.27	8.27	0.02
325	511	523	519	526	524	529.5193	-10.52	10.52	0.02
326	542	502	513	523	501	522.1558	-9.16	9.16	0.02
327	510	543	527	528	516	515.7467	11.25	11.25	0.02
328	514	503	501	506	542	523.624	-22.62	22.62	0.05
329	507	509	524	504	531	507.7872	16.21	16.21	0.03

330	506	517	548	535	537	519.1362	28.86	28.86	0.05
331	519	513	538	547	507	539.3408	-1.34	1.34	0.00
332	535	541	504	508	522	538.4023	-34.40	34.40	0.07
333	537	536	539	546	531	514.3207	24.68	24.68	0.05
334	504	537	532	542	549	531.5962	0.40	0.40	0.00
335	514	542	530	510	518	531.8789	-1.88	1.88	0.00
336	501	522	547	521	505	530.5637	16.44	16.44	0.03
337	526	525	508	501	502	542.0691	-34.07	34.07	0.07
338	540	531	518	523	506	518.2207	-0.22	0.22	0.00
339	508	515	543	535	536	518.0662	24.93	24.93	0.05
340	508	547	527	516	505	535.5199	-8.52	8.52	0.02
341	537	544	507	524	517	529.556	-22.56	22.56	0.04
342	507	536	529	526	516	513.7668	15.23	15.23	0.03
343	518	502	505	517	513	524.43	-19.43	19.43	0.04
344	507	525	508	546	500	510.829	-2.83	2.83	0.01
345	502	516	513	500	523	508.8487	4.15	4.15	0.01
346	549	517	524	512	516	511.7546	12.25	12.25	0.02
347	501	512	526	509	542	520.3264	5.67	5.67	0.01
348	517	535	550	520	529	524.2979	25.70	25.70	0.05
349	549	522	549	515	523	542.2894	6.71	6.71	0.01
350	537	532	548	543	538	546.9868	1.01	1.01	0.00
351	525	538	538	508	527	547.696	-9.70	9.70	0.02
352	549	504	509	530	546	540.9088	-31.91	31.91	0.06
353	511	540	522	543	525	518.5726	3.43	3.43	0.01
354	534	526	539	529	504	520.9718	18.03	18.03	0.03
355	524	503	506	528	546	533.5915	-27.59	27.59	0.05
356	548	509	523	545	531	514.2775	8.72	8.72	0.02
357	517	521	539	546	542	520.3832	18.62	18.62	0.03
358	546	540	543	520	521	533.415	9.59	9.59	0.02
359	532	518	541	539	534	540.1245	0.88	0.88	0.00
360	519	549	538	540	502	540.7373	-2.74	2.74	0.01
361	533	506	531	541	538	538.8212	-7.82	7.82	0.01
362	536	522	520	528	511	533.3464	-13.35	13.35	0.03

363	523	534	548	506	510		524.0039		24.00	24.00		0.04
364	516	504	547	519	532		540.8012		6.20	6.20		0.01
365	546	544	547	542	513		545.1404		1.86	1.86		0.00

		SUM	5595.37		10.68
Aktual Average	525.0384	MAE	15.33	MAPE	3%

547

531.67	546.5513
562.33	547.4487

Urutan	(Aktual - Prediksi)^2	SE	ST
0.030334	268324.0000	275665.3	49.53846
0.127568	169.0000	49.53846	35.5412
0.194749	222.0100	4.250375	287.6974
0.202136	1058.2009	156.0412	401.5357
0.220729	45.6841	105.6652	290.3056
0.337464	35.6684	225.3198	81.69188
0.390744	3.2102	117.2899	81.69188
0.403797	463.8642	91.69716	143.0809
0.435167	89.5153	30.25431	223.8508
0.462386	294.5214	146.9736	25.38503
0.517015	355.3795	0.012129	359.5439
0.550623	1046.1697	177.0547	362.459
0.551041	691.5131	87.14208	287.6974
0.614507	3.5683	82.31303	120.1576
0.716962	41.3874	108.0549	15.69462
0.868535	363.6652	34.71136	623.0837
0.875509	541.9117	370.2023	16.30832
0.896122	624.1852	8.675045	485.6891
0.994948	812.5288	211.506	194.9275
1.013188	183.6423	29.27001	359.5439
1.01717	1364.1617	221.8969	485.6891
1.340849	24.2028	120.0775	36.46175
1.631233	12.4194	56.46389	121.8453
1.703162	101.1479	99.62282	401.5357
1.79169	1.0346	289.7208	325.3823
1.859648	1656.0707	314.4666	527.2371
1.873122	60.7082	115.6311	8.771334
1.878861	0.1139	28.08054	24.61791
1.883513	364.8573	25.63278	197.0754
1.888991	452.3971	69.02261	168.0042
2.038022	243.9566	43.30634	81.69188
2.053469	160.9278	18.94532	290.3056

2.123054	23.0949	175.1027	325.3823
2.381971	41.4957	275.4485	530.7659
2.405413	122.4892	445.4565	100.7686
2.525957	69.2265	178.4522	25.38503
2.588643	210.3639	56.76763	485.6891
2.589816	13.3139	312.8363	197.0754
2.616041	1095.2556	229.0078	322.6206
2.70972	1093.7311	64.5331	626.9193
2.71116	1230.5024	228.5199	398.4672
2.737347	20.4626	89.07751	194.9275
2.743566	276.9872	158.8754	16.30832
2.829011	35.9146	0.911116	25.38503
2.983133	0.0409	10.50079	9.231608
3.111481	142.5483	9.603782	226.1522
3.273234	339.2298	131.2525	48.46448
3.342186	71.8179	2.062631	49.53846
3.383579	131.2775	20.21396	48.46448
3.427356	73.3200	12.42106	25.38503
3.510107	157.9751	6.098645	226.1522
3.52411	85.1810	126.9613	4.154896
3.571623	104.6773	23.10882	226.1522
3.648822	672.3982	143.2569	194.9275
3.721624	174.7897	38.2227	49.53846
4.064457	485.4865	9.437884	359.5439
4.075924	501.3064	152.56	100.7686
4.128335	0.5140	11.03166	16.30832
4.135754	67.4877	14.61738	144.922
4.151297	381.6347	91.65821	99.23435
4.17693	97.2323	16.81822	194.9275
4.18756	49.5871	121.0759	15.69462
4.296135	118.5367	36.89574	287.6974
4.500574	280.0188	187.5642	9.231608
4.523555	24.7991	3.927423	48.46448

4.631858	342.0266	29.89555	574.1604
4.678168	1328.7346	339.0553	325.3823
4.699203	16.5198	50.44995	9.231608
4.759443	27.2415	18.12795	0.924759
4.80572	308.5574	0.365006	287.6974
4.913475	45.2964	136.7006	24.61791
4.919632	529.8779	48.73048	257.2289
4.979871	905.6655	83.40498	439.3905
5.170136	120.3786	142.4051	0.924759
5.218514	161.5056	18.08936	287.6974
5.219337	51.6595	172.8988	35.5412
5.26252	229.7115	65.89998	49.53846
5.299388	273.7989	6.207499	362.459
5.38169	169.9357	198.0858	1.078184
5.394368	82.6139	24.49396	197.0754
5.489051	10.7141	127.9521	64.61517
5.495588	48.7479	81.36629	4.154896
5.604577	65.5224	17.08125	15.69462
5.646715	12.7565	2.350906	4.154896
5.66401	621.4308	0.934836	574.1604
5.673617	56.5722	271.6923	80.31106
5.86481	7.5272	125.8453	194.9275
5.9723	17.4467	172.6221	80.31106
5.99288	410.1872	104.3406	100.7686
6.014312	16.6132	15.70087	64.61517
6.024288	45.9308	46.45212	0.001471
6.198827	144.7971	4.291208	99.23435
6.360359	134.7909	40.34401	322.6206
6.37825	0.2673	209.6316	194.9275
6.433303	46.8526	199.2826	439.3905
6.439455	4.2167	357.5191	439.3905
6.441716	6.8437	413.9436	527.2371
6.649828	740.6664	491.8119	25.38503

6.710626	229.9638	9.773128	144.922
6.717527	109.2157	56.08496	8.771334
6.73026	34.3960	0.030118	36.46175
6.759	22.6523	18.3091	81.69188
6.777223	242.4924	57.92006	63.38777
6.825687	427.3171	10.82406	574.1604
6.844896	77.4137	315.4229	80.31106
6.98197	58.3627	134.5877	15.69462
7.012928	299.0086	39.10638	121.8453
7.020639	17.5357	34.23182	100.7686
7.041807	94.9403	77.12507	0.924759
7.060094	167.0070	3.847387	120.1576
7.187455	259.9532	50.19309	81.69188
7.434946	78.0911	17.65207	169.9987
7.521446	128.7981	107.8956	0.924759
7.595323	57.6889	5.968412	100.7686
7.639551	127.2067	60.21387	362.459
7.691796	11.4486	245.072	362.459
7.704773	120.6686	324.8387	49.53846
7.749925	233.9516	106.7881	24.61791
7.757787	6.7011	0.139129	8.771334
7.791545	125.9649	4.774447	81.69188
7.821204	467.9857	32.16403	254.7741
7.841943	12.3208	89.71406	35.5412
8.094591	903.1847	49.20568	530.7659
8.131518	960.0139	196.629	287.6974
8.215089	59.3635	58.77395	0.001471
8.268836	454.1771	5.166873	362.459
8.320246	605.4833	159.8942	143.0809
8.445492	5.6738	20.9734	48.46448
8.458712	411.4978	39.02566	197.0754
8.474542	571.8974	63.24597	254.7741
8.519866	46.5900	77.21718	3.848047

8.541859	100.9564	16.07489	36.46175
8.562709	36.1719	9.144844	81.69188
8.70054	331.0837	52.33166	120.1576
8.722539	71.5498	30.28226	194.9275
8.798505	0.2138	130.5085	120.1576
8.836919	1165.4519	123.218	530.7659
8.880033	126.3739	163.7566	577.8426
8.997344	2081.8702	427.0783	623.0837
9.001799	160.9918	127.0893	574.1604
9.002039	739.4877	406.2308	49.53846
9.089218	61.4961	1.25373	80.31106
9.094603	939.2642	43.67969	577.8426
9.097493	475.4918	220.3482	48.46448
9.155805	307.7124	0.176326	322.6206
9.229356	27.6941	161.2678	322.6206
9.350835	548.5547	268.399	49.53846
9.450444	626.3194	0.000144	626.9193
9.461252	505.8940	307.3165	24.61791
9.585028	280.4830	3.189734	223.8508
9.589821	36.2920	98.75104	254.7741
9.60273	1036.3708	200.3458	325.3823
9.675022	11.1702	70.23349	25.38503
9.696044	80.9522	36.49383	226.1522
9.743732	22.0825	152.2547	290.3056
9.744004	345.5970	244.253	8.771334
9.860642	417.0960	6.840463	530.7659
9.923201	3.5086	285.9981	226.1522
10.04771	242.1739	243.3691	0.001471
10.05723	336.0409	22.15526	530.7659
10.23119	20.2552	307.6141	169.9987
10.45063	44.2202	207.0298	442.6124
10.51935	0.9899	362.6514	401.5357
10.59226	1998.2255	389.6625	623.0837

10.7615	383.7503	133.43	64.61517
10.86945	259.9555	4.67205	194.9275
10.88746	220.1348	83.2602	574.1604
10.94158	1263.7256	380.662	257.2289
10.97172	312.0408	28.87645	530.7659
10.98493	1204.1315	314.6705	287.6974
11.06749	91.9647	42.92169	9.231608
11.18435	4.5074	0.026053	3.848047
11.22341	311.0608	1.754903	359.5439
11.24161	1421.9630	186.8845	577.8426
11.25326	160.9682	161.9429	0.001471
11.2786	331.0145	14.78059	485.6891
11.34892	72.9634	274.9035	64.61517
11.35138	1194.5704	112.3794	574.1604
11.45054	2.6609	184.7663	143.0809
11.45764	379.8355	155.0277	49.53846
11.60995	329.5383	1.41978	287.6974
11.83541	508.6849	132.611	121.8453
11.93936	297.0034	18.25121	168.0042
12.03317	26.7303	60.70759	168.0042
12.16207	0.3036	130.2019	143.0809
12.18708	1356.7942	139.1534	626.9193
12.24539	254.3895	195.6627	3.848047
12.30599	249.1624	7.970652	168.0042
12.36573	541.2387	67.67004	226.1522
12.56881	49.2894	64.9474	1.078184
12.64469	488.6837	9.888181	359.5439
12.68573	21.4541	152.0236	287.6974
12.68732	275.9068	242.4899	1.078184
12.68825	8.8991	15.56126	0.924759
12.70848	524.1783	3.446903	442.6124
12.92312	66.1216	200.7853	36.46175
13	41.4666	71.87329	4.154896

13.03594	443.8675	15.76243	626.9193
13.22081	659.4393	350.36	48.46448
13.27075	18.4568	0.550893	25.38503
13.34636	7.3504	14.05887	1.078184
13.43445	201.2611	3.428808	257.2289
13.55147	94.9456	138.824	4.154896
13.77155	98.4699	24.61705	24.61791
14.18665	255.2633	3.938968	322.6206
14.50393	740.2161	173.4109	197.0754
14.59655	147.9160	34.5307	325.3823
14.69246	128.8538	207.0644	9.231608
14.83513	5.7860	41.52217	16.30832
14.83694	13.8505	22.65741	1.078184
14.9	3.5476	4.64335	16.30832
15.15624	55.2784	12.06383	15.69462
15.16456	716.6070	2.996915	626.9193
15.16519	1441.6560	289.2551	439.3905
15.23321	0.1527	91.60213	99.23435
15.29548	478.8559	96.91262	144.922
15.46547	0.1894	29.95945	25.38503
15.56194	118.1449	26.71759	257.2289
15.57217	825.9396	163.265	254.7741
15.61911	40.6821	53.87405	0.924759
15.62104	24.1422	8.266309	4.154896
15.6992	6.3805	0.31845	3.848047
15.78488	60.1833	1.449271	80.31106
15.94959	277.9777	44.01404	100.7686
15.97696	81.0324	25.36691	197.0754
16.12306	75.6994	128.5461	401.5357
16.12314	750.2032	303.742	99.23435
16.17768	474.5012	3.043952	401.5357
16.21279	648.4706	182.3429	143.0809
16.35132	804.3165	18.68071	577.8426

16.43634	461.8999	241.1875	35.5412
16.54687	647.5782	0.236112	623.0837
16.61044	152.9113	300.238	24.61791
16.64293	7.3426	75.19255	35.5412
16.64401	148.5250	45.89466	359.5439
16.67266	499.2487	234.2589	49.53846
16.73376	2.9008	0.112355	4.154896
16.74763	30.1297	2.332973	15.69462
17.03827	31.8854	5.358894	63.38777
17.06656	151.4373	39.28318	36.46175
17.16162	59.1637	5.506346	100.7686
17.22306	215.8684	59.76554	48.46448
17.23379	112.1960	6.522433	64.61517
17.29187	261.7173	23.62619	442.6124
17.54173	1033.4101	261.9559	254.7741
17.5658	277.0230	39.91251	527.2371
17.63692	400.2719	322.8649	4.154896
17.66468	81.0367	15.71078	25.38503
18.02821	28.0835	5.465049	8.771334
18.15319	6.7071	1.88191	15.69462
18.1938	296.6336	10.14231	197.0754
18.19571	667.3482	78.70244	287.6974
18.21823	60.0613	84.85576	287.6974
18.33142	93.6061	214.232	24.61791
18.41819	82.7644	61.84486	287.6974
18.49396	176.1129	202.5611	0.924759
18.51503	782.9490	24.43196	530.7659
18.59024	29.0992	214.4464	401.5357
18.61676	28.9626	339.2981	169.9987
18.85151	0.3776	214.7064	197.0754
19.07001	125.0897	202.2854	9.231608
19.10124	159.8883	40.87891	362.459
19.43004	1102.6777	232.4084	322.6206

19.48937	4.1535	63.99466	35.5412
19.53547	605.7213	43.20499	325.3823
19.58955	467.2764	113.5276	120.1576
20.0068	342.8062	20.04058	197.0754
20.25308	71.3263	71.97568	0.001471
20.28541	553.8326	6.615203	439.3905
20.42293	49.8449	193.2531	439.3905
20.56484	1147.9880	355.0818	226.1522
20.67165	140.0769	23.75358	48.46448
20.72838	0.3032	11.63507	15.69462
21.06816	229.9829	14.41309	359.5439
21.26963	89.3109	207.7083	24.61791
21.31143	220.0812	60.78973	49.53846
21.49186	131.1149	6.696793	197.0754
21.53751	422.9126	112.4277	99.23435
21.61658	831.2005	14.38072	626.9193
21.63298	87.4381	268.6056	49.53846
21.68137	0.0379	96.89659	100.7686
21.78305	119.7181	99.59903	0.924759
21.80577	45.1252	5.386246	81.69188
21.88278	783.1458	49.3239	439.3905
22.0091	31.4113	157.9099	48.46448
22.03376	470.0819	74.70174	169.9987
22.10619	30.2015	42.69243	1.078184
22.26056	267.3658	7.220144	362.459
22.34387	82.7118	199.7405	25.38503
22.38987	429.6658	60.3222	168.0042
22.49209	27.2329	45.4698	143.0809
22.55404	180.4843	108.0787	9.231608
22.55596	0.0009	0.984019	0.924759
22.60589	484.4005	0.942344	442.6124
22.62402	92.2124	208.3873	577.8426
22.89494	735.4500	447.6414	35.5412

22.90811	17.1045	4.726756	3.848047
23.01908	613.0216	0.519722	577.8426
23.26454	874.5161	275.9112	168.0042
23.279	17.0431	16.72792	0.001471
23.29024	115.8099	1.440346	143.0809
23.42124	189.6556	76.26868	25.38503
23.53365	0.7544	0.822452	0.001471
23.91438	495.5326	0.089351	482.3138
23.99609	21.8853	233.5846	398.4672
24.60657	213.0593	344.4065	15.69462
24.61141	244.0167	69.56575	574.1604
24.67932	980.5471	371.5385	144.922
24.75927	511.0264	6.992055	398.4672
24.92851	331.9040	173.7091	25.38503
24.93378	239.1808	0.182426	226.1522
24.9837	40.4542	108.1333	16.30832
25.02637	524.7814	35.36043	287.6974
25.44756	0.0163	101.7922	99.23435
25.46509	290.3027	99.99828	49.53846
25.67955	9.6813	3.712848	25.38503
25.70209	291.2673	16.8503	168.0042
25.83308	78.8550	61.4919	1.078184
25.93064	32.0810	2.64275	16.30832
26.29664	246.4650	5.471638	325.3823
26.76952	542.4352	177.6515	99.23435
27.11918	49.1812	8.848079	16.30832
27.19352	0.8030	3.742204	1.078184
27.20691	68.3737	1.708753	48.46448
27.21519	110.6567	20.0793	36.46175
27.38984	83.8288	8.309103	144.922
27.59154	126.6358	86.3341	3.848047
27.98123	511.8464	2.00034	577.8426
27.98474	262.8547	297.6022	1.078184

28.36047	833.1211	34.8359	527.2371
28.50489	1.7979	204.5613	168.0042
28.73917	1183.5151	178.5938	442.6124
28.83055	609.0690	114.8687	194.9275
28.86384	0.1631	43.00535	48.46448
29.57222	3.5301	46.7925	24.61791
30.05303	270.1533	30.52896	482.3138
30.09428	1160.7034	290.0461	290.3056
30.64742	0.0487	46.48004	49.53846
30.98409	621.6934	48.6107	322.6206
31.31369	72.5881	109.862	3.848047
31.90881	508.7713	20.40874	325.3823
32.1467	232.0508	127.0483	15.69462
32.19271	377.5263	0.370053	401.5357
32.34455	8.0033	201.9055	290.3056
32.53	17.2333	262.1049	144.922
33.07161	149.9496	176.4579	1.078184
33.09465	32.1899	22.20269	0.924759
33.20659	660.5972	0.548253	623.0837
33.88197	45.0325	297.5976	574.1604
34.0691	1.0265	481.7347	527.2371
34.13872	94.0133	513.3708	168.0042
34.40225	1018.1724	251.8714	257.2289
34.56256	11.7468	41.80543	9.231608
34.7006	325.0162	16.53693	194.9275
35.07852	761.2930	73.15692	362.459
35.54892	76.0827	115.7969	4.154896
36.45181	346.5838	21.67012	194.9275
36.83469	91.8728	70.16768	322.6206
36.93456	0.7665	227.5915	254.7741
37.70893	7.4931	246.4583	168.0042
37.96915	61.1712	189.9669	35.5412
40.69485	178.1254	69.02295	25.38503

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