

## LAMPIRAN

Lampiran 1. Data Variabel

NO	TAHUN	Jumlah Penduduk(X1) juta	Pengangguran (X2)	Inflasi(X3)%	Pertumbuhan Ekonomi (Y)%
1	1993	191737287	2.78	9.67	6.50
2	1994	194928533	4.37	8.53	7.54
3	1995	198140162	4.60	9.42	8.22
4	1996	201373791	4.86	7.97	7.82
5	1997	204628007	4.68	6.23	4.70
6	1998	207855486	5.46	58.45	-13.13
7	1999	210996910	6.36	20.48	0.79
8	2000	214072421	6.08	3.69	4.92
9	2001	217112437	6.08	11.50	3.64
10	2002	220115092	6.60	11.90	4.50
11	2003	223080121	6.66	6.76	4.78
12	2004	225938595	7.30	6.06	5.03
13	2005	228805144	7.94	10.45	5.69
14	2006	231797427	7.55	13.11	5.50
15	2007	234858289	8.06	6.41	6.35
16	2008	237936543	7.21	10.23	6.01
17	2009	240981299	6.11	4.39	4.63
18	2010	244016173	5.61	5.13	6.22
19	2011	247099697	5.15	5.36	6.17
20	2012	250222695	4.47	4.28	6.03
21	2013	253275918	4.34	6.41	5.56
22	2014	256229761	4.05	6.39	5.01
23	2015	259091970	4.51	6.36	4.88
24	2016	261850182	4.30	3.53	5.03
25	2017	264498852	3.78	3.81	5.07

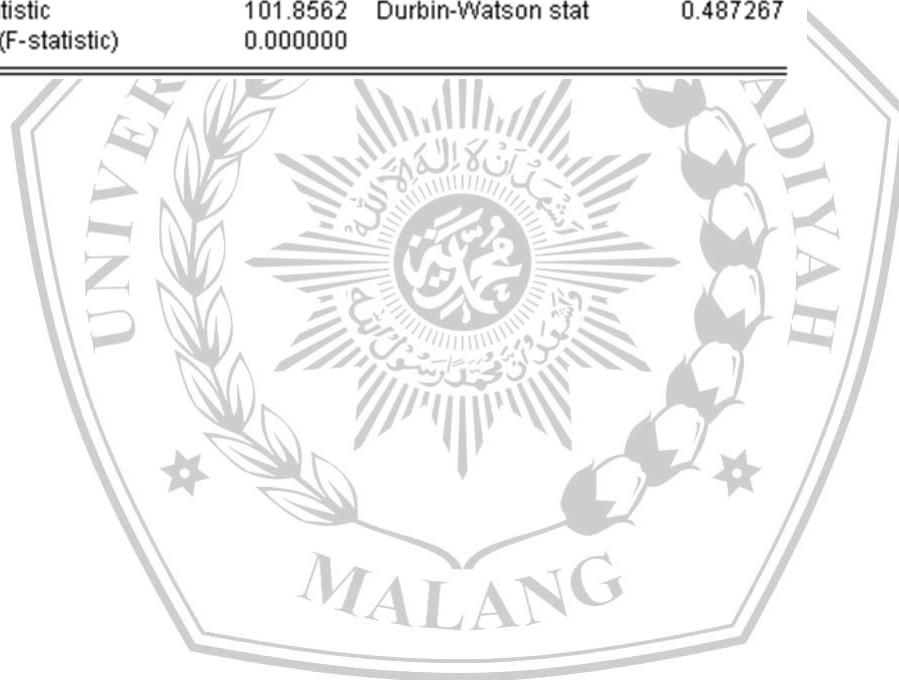
26	2018	267066843	4.39	3.20	5.17
27	2019	269582878	3.59	3.03	5.02
28	2020	271857970	4.25	1.92	-2.07
29	2021	273753191	3.83	1.87	3.70
30	2022	275501339	3.55	5.51	5.31



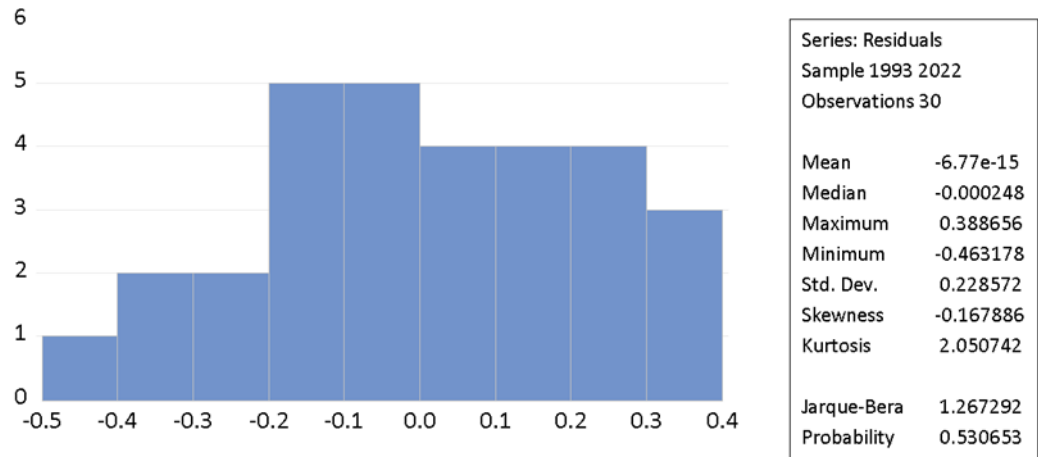
## Lampiran 2. Hasil Regresi

Dependent Variable: LOGY  
 Method: Least Squares  
 Date: 06/28/24 Time: 20:56  
 Sample: 1993 2022  
 Included observations: 30

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-84.69693	10.25025	-8.262917	0.0000
LOGX1	5.838616	0.526196	11.09590	0.0000
LOGX2	-0.420379	0.179113	-2.347005	0.0268
LOGX3	-0.189343	0.089564	-2.114053	0.0443
R-squared	0.921585	Mean dependent var	26.79099	
Adjusted R-squared	0.912537	S.D. dependent var	0.816251	
S.E. of regression	0.241399	Akaike info criterion	0.118838	
Sum squared resid	1.515115	Schwarz criterion	0.305664	
Log likelihood	2.217432	Hannan-Quinn criter.	0.178605	
F-statistic	101.8562	Durbin-Watson stat	0.487267	
Prob(F-statistic)	0.000000			



## Lampiran 3. Hasil Uji Normalitas



## Lampiran 4. Hasil Uji Heteroskedastisitas

Heteroskedasticity Test: Glejser  
Null hypothesis: Homoskedasticity

F-statistic	1.105017	Prob. F(3,26)	0.3649
Obs*R-squared	3.392507	Prob. Chi-Square(3)	0.3350
Scaled explained SS	2.307051	Prob. Chi-Square(3)	0.5112

Test Equation:  
Dependent Variable: ARESID  
Method: Least Squares  
Date: 06/28/24 Time: 21:00  
Sample: 1993 2022  
Included observations: 30

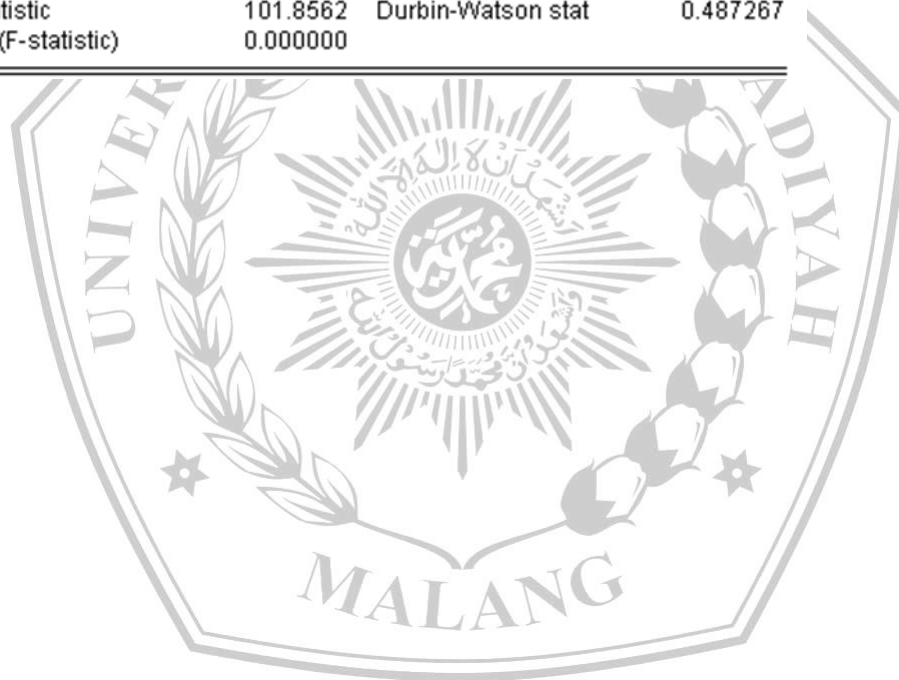
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	3.664446	5.154641	0.710902	0.4835
LOGX1	-0.190077	0.264613	-0.718319	0.4790
LOGX2	0.133935	0.090072	1.486971	0.1491
LOGX3	-0.015585	0.045040	-0.346023	0.7321
R-squared	0.113084	Mean dependent var		0.190009
Adjusted R-squared	0.010747	S.D. dependent var		0.122052
S.E. of regression	0.121395	Akaike info criterion		-1.255970
Sum squared resid	0.383155	Schwarz criterion		-1.069144
Log likelihood	22.83956	Hannan-Quinn criter.		-1.196203
F-statistic	1.105017	Durbin-Watson stat		1.632309
Prob(F-statistic)	0.364903			



## Lampiran 5. Hasil Uji Autokorelasi

Dependent Variable: LOGY  
 Method: Least Squares  
 Date: 06/28/24 Time: 20:56  
 Sample: 1993 2022  
 Included observations: 30

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-84.69693	10.25025	-8.262917	0.0000
LOGX1	5.838616	0.526196	11.09590	0.0000
LOGX2	-0.420379	0.179113	-2.347005	0.0268
LOGX3	-0.189343	0.089564	-2.114053	0.0443
R-squared	0.921585	Mean dependent var		26.79099
Adjusted R-squared	0.912537	S.D. dependent var		0.816251
S.E. of regression	0.241399	Akaike info criterion		0.118838
Sum squared resid	1.515115	Schwarz criterion		0.305664
Log likelihood	2.217432	Hannan-Quinn criter.		0.178605
F-statistic	101.8562	Durbin-Watson stat		0.487267
Prob(F-statistic)	0.000000			



## Lampiran 6. Hasil Autokorelasi Setelah Penanganan

Dependent Variable: D(LOGY)  
 Method: Least Squares  
 Date: 06/28/24 Time: 21:12  
 Sample (adjusted): 1994 2022  
 Included observations: 29 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.119094	0.162626	0.732318	0.4708
D(LOGX1)	-3.817338	12.84153	-0.297265	0.7687
D(LOGX2)	-0.172402	0.254156	-0.678329	0.5038
D(LOGX3)	-0.167338	0.043905	-3.811385	0.0008

R-squared	0.384267	Mean dependent var	0.073174
Adjusted R-squared	0.310379	S.D. dependent var	0.201100
S.E. of regression	0.167001	Akaike info criterion	-0.614197
Sum squared resid	0.697230	Schwarz criterion	-0.425604
Log likelihood	12.90585	Hannan-Quinn criter.	-0.555132
F-statistic	5.200667	Durbin-Watson stat	2.017724
Prob(F-statistic)	0.006269		



## Lampiran 7. Hasil Uji Multikolinieritas

Variance Inflation Factors  
Date: 06/28/24 Time: 21:02  
Sample: 1993 2022  
Included observations: 30

Variable	Coefficient Variance	Uncentered VIF	Centered VIF
C	105.0675	54090.06	NA
LOGX1	0.276882	52949.61	1.717193
LOGX2	0.032081	45.01905	1.176866
LOGX3	0.008022	16.46158	1.889516





## Lampiran 8. Uji T

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-84.69693	10.25025	-8.262917	0.0000
LOGX1	5.838616	0.526196	11.09590	0.0000
LOGX2	-0.420379	0.179113	-2.347005	0.0268
LOGX3	-0.189343	0.089564	-2.114053	0.0443



## Lampiran 9. Uji F

F-statistic	101.8562
Prob(F-statistic)	0.000000



## Lampiran 10. Uji Koefisien R

R-squared	0.921585
Adjusted R-squared	0.912537



## Lampiran 11. F Table

Titik Persentase Distribusi F untuk Probabilita = 0,05															
df untuk penyebut (N2)	df untuk pembilang (N1)														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	161	199	216	225	230	234	237	239	241	242	243	244	245	245	246
2	18.51	19.00	19.16	19.25	19.30	19.33	19.35	19.37	19.38	19.40	19.40	19.41	19.42	19.42	19.43
3	10.13	9.55	9.28	9.12	9.01	8.94	8.89	8.85	8.81	8.79	8.76	8.74	8.73	8.71	8.70
4	7.71	6.94	6.59	6.39	6.26	6.16	6.09	6.04	6.00	5.96	5.94	5.91	5.89	5.87	5.86
5	6.61	5.79	5.41	5.19	5.05	4.95	4.88	4.82	4.77	4.74	4.70	4.68	4.66	4.64	4.62
6	5.99	5.14	4.76	4.53	4.39	4.28	4.21	4.15	4.10	4.06	4.03	4.00	3.98	3.96	3.94
7	5.59	4.74	4.35	4.12	3.97	3.87	3.79	3.73	3.68	3.64	3.60	3.57	3.55	3.53	3.51
8	5.32	4.46	4.07	3.84	3.69	3.58	3.50	3.44	3.39	3.35	3.31	3.28	3.26	3.24	3.22
9	5.12	4.26	3.86	3.63	3.48	3.37	3.29	3.23	3.18	3.14	3.10	3.07	3.05	3.03	3.01
10	4.96	4.10	3.71	3.48	3.33	3.22	3.14	3.07	3.02	2.98	2.94	2.91	2.89	2.86	2.85
11	4.84	3.98	3.59	3.36	3.20	3.09	3.01	2.95	2.90	2.85	2.82	2.79	2.76	2.74	2.72
12	4.75	3.89	3.49	3.26	3.11	3.00	2.91	2.85	2.80	2.75	2.72	2.69	2.66	2.64	2.62
13	4.67	3.81	3.41	3.18	3.03	2.92	2.83	2.77	2.71	2.67	2.63	2.60	2.58	2.55	2.53
14	4.60	3.74	3.34	3.11	2.96	2.85	2.76	2.70	2.65	2.60	2.57	2.53	2.51	2.48	2.46
15	4.54	3.68	3.29	3.06	2.90	2.79	2.71	2.64	2.59	2.54	2.51	2.48	2.45	2.42	2.40
16	4.49	3.63	3.24	3.01	2.85	2.74	2.66	2.59	2.54	2.49	2.46	2.42	2.40	2.37	2.35
17	4.45	3.59	3.20	2.96	2.81	2.70	2.61	2.55	2.49	2.45	2.41	2.38	2.35	2.33	2.31
18	4.41	3.55	3.16	2.93	2.77	2.66	2.58	2.51	2.46	2.41	2.37	2.34	2.31	2.29	2.27
19	4.38	3.52	3.13	2.90	2.74	2.63	2.54	2.48	2.42	2.38	2.34	2.31	2.28	2.26	2.23
20	4.35	3.49	3.10	2.87	2.71	2.60	2.51	2.45	2.39	2.35	2.31	2.28	2.25	2.22	2.20
21	4.32	3.47	3.07	2.84	2.68	2.57	2.49	2.42	2.37	2.32	2.28	2.25	2.22	2.20	2.18
22	4.30	3.44	3.05	2.82	2.66	2.55	2.46	2.40	2.34	2.30	2.26	2.23	2.20	2.17	2.15
23	4.28	3.42	3.03	2.80	2.64	2.53	2.44	2.37	2.32	2.27	2.24	2.20	2.18	2.15	2.13
24	4.26	3.40	3.01	2.78	2.62	2.51	2.42	2.36	2.30	2.25	2.22	2.18	2.15	2.13	2.11
25	4.24	3.39	2.99	2.76	2.60	2.49	2.40	2.34	2.28	2.24	2.20	2.16	2.14	2.11	2.09
26	4.23	3.37	2.98	2.74	2.59	2.47	2.39	2.32	2.27	2.22	2.18	2.15	2.12	2.09	2.07
27	4.21	3.35	2.96	2.73	2.57	2.46	2.37	2.31	2.25	2.20	2.17	2.13	2.10	2.08	2.06
28	4.20	3.34	2.95	2.71	2.56	2.45	2.36	2.29	2.24	2.19	2.15	2.12	2.09	2.06	2.04
29	4.18	3.33	2.93	2.70	2.55	2.43	2.35	2.28	2.22	2.18	2.14	2.10	2.08	2.05	2.03
30	4.17	3.32	2.92	2.69	2.53	2.42	2.33	2.27	2.21	2.16	2.13	2.09	2.06	2.04	2.01
31	4.16	3.30	2.91	2.68	2.52	2.41	2.32	2.25	2.20	2.15	2.11	2.08	2.05	2.03	2.00
32	4.15	3.29	2.90	2.67	2.51	2.40	2.31	2.24	2.19	2.14	2.10	2.07	2.04	2.01	1.99
33	4.14	3.28	2.89	2.66	2.50	2.39	2.30	2.23	2.18	2.13	2.09	2.06	2.03	2.00	1.98
34	4.13	3.28	2.88	2.65	2.49	2.38	2.29	2.23	2.17	2.12	2.08	2.05	2.02	1.99	1.97
35	4.12	3.27	2.87	2.64	2.49	2.37	2.29	2.22	2.16	2.11	2.07	2.04	2.01	1.99	1.96
36	4.11	3.26	2.87	2.63	2.48	2.36	2.28	2.21	2.15	2.11	2.07	2.03	2.00	1.98	1.95
37	4.11	3.25	2.86	2.63	2.47	2.36	2.27	2.20	2.14	2.10	2.06	2.02	2.00	1.97	1.95
38	4.10	3.24	2.85	2.62	2.46	2.35	2.26	2.19	2.14	2.09	2.05	2.02	1.99	1.96	1.94
39	4.09	3.24	2.85	2.61	2.46	2.34	2.26	2.19	2.13	2.08	2.04	2.01	1.98	1.95	1.93
40	4.08	3.23	2.84	2.61	2.45	2.34	2.25	2.18	2.12	2.08	2.04	2.00	1.97	1.95	1.92
41	4.08	3.23	2.83	2.60	2.44	2.33	2.24	2.17	2.12	2.07	2.03	2.00	1.97	1.94	1.92
42	4.07	3.22	2.83	2.59	2.44	2.32	2.24	2.17	2.11	2.06	2.03	1.99	1.96	1.94	1.91
43	4.07	3.21	2.82	2.59	2.43	2.32	2.23	2.16	2.11	2.06	2.02	1.99	1.96	1.93	1.91
44	4.06	3.21	2.82	2.58	2.43	2.31	2.23	2.16	2.10	2.05	2.01	1.98	1.95	1.92	1.90
45	4.06	3.20	2.81	2.58	2.42	2.31	2.22	2.15	2.10	2.05	2.01	1.97	1.94	1.92	1.89

## Lampiran 12. T Table

LAMPIRAN 8, T Tabel Untuk Alpha  $\alpha$  5% t

df	0,05	0,025	df	0,05	0,025	df	0,05	0,025	df	0,05	0,025
1	6.314	12.706	53	1.674	2.006	105	1.659	1.983	157	1.655	1.975
2	2.920	4.303	54	1.674	2.005	106	1.659	1.983	158	1.655	1.975
3	2.353	3.182	55	1.673	2.004	107	1.659	1.982	159	1.654	1.975
4	2.132	2.776	56	1.673	2.003	108	1.659	1.982	160	1.654	1.975
5	2.015	2.571	57	1.672	2.002	109	1.659	1.982	161	1.654	1.975
6	1.943	2.447	58	1.672	2.002	110	1.659	1.982	162	1.654	1.975
7	1.895	2.365	59	1.671	2.001	111	1.659	1.982	163	1.654	1.975
8	1.860	2.306	60	1.671	2.000	112	1.659	1.981	164	1.654	1.975
9	1.833	2.262	61	1.670	2.000	113	1.658	1.981	165	1.654	1.974
10	1.812	2.228	62	1.670	1.999	114	1.658	1.981	166	1.654	1.974
11	1.796	2.201	63	1.669	1.998	115	1.658	1.981	167	1.654	1.974
12	1.782	2.179	64	1.669	1.998	116	1.658	1.981	168	1.654	1.974
13	1.771	2.160	65	1.669	1.997	117	1.658	1.980	169	1.654	1.974
14	1.761	2.145	66	1.668	1.997	118	1.658	1.980	170	1.654	1.974
15	1.753	2.131	67	1.668	1.996	119	1.658	1.980	171	1.654	1.974
16	1.746	2.120	68	1.668	1.995	120	1.658	1.980	172	1.654	1.974
17	1.740	2.110	69	1.667	1.995	121	1.658	1.980	173	1.654	1.974
18	1.734	2.101	70	1.667	1.994	122	1.657	1.980	174	1.654	1.974
19	1.729	2.093	71	1.667	1.995	123	1.657	1.979	175	1.654	1.974
20	1.725	2.086	72	1.666	1.993	124	1.657	1.979	176	1.654	1.974
21	1.721	2.080	73	1.666	1.993	125	1.657	1.979	177	1.654	1.973
22	1.717	2.074	74	1.666	1.993	126	1.657	1.979	178	1.653	1.973
23	1.714	2.069	75	1.665	1.992	127	1.657	1.979	179	1.653	1.973
24	1.711	2.064	76	1.665	1.992	128	1.657	1.979	180	1.653	1.973
25	1.708	2.060	77	1.665	1.991	129	1.657	1.979	181	1.653	1.973
26	1.706	2.056	78	1.665	1.991	130	1.657	1.978	182	1.653	1.973
27	1.703	2.052	79	1.664	1.990	131	1.657	1.978	183	1.654	1.973
28	1.701	2.048	80	1.664	1.990	132	1.656	1.978	184	1.653	1.973
29	1.699	2.045	81	1.664	1.990	133	1.656	1.978	185	1.653	1.973
30	1.697	2.042	82	1.664	1.989	134	1.656	1.978	186	1.653	1.973
31	1.696	2.040	83	1.663	1.989	135	1.656	1.978	187	1.653	1.973
32	1.694	2.037	84	1.663	1.989	136	1.656	1.978	188	1.653	1.973
33	1.692	2.035	85	1.663	1.988	137	1.656	1.977	189	1.654	1.973
34	1.691	2.032	86	1.663	1.988	138	1.656	1.977	190	1.653	1.973
35	1.690	2.030	87	1.663	1.988	139	1.656	1.977	191	1.653	1.972



Lampiran 13. Durbin Watson Table

$\alpha = .05$										
	k = 1		k = 2		k = 3		k = 4		k = 5	
n	dL	dU	dL	dU	dL	dU	dL	dU	dL	dU
6	0.61	1.4								
7	0.7	1.36	0.47	1.9						
8	0.76	1.33	0.56	1.78	0.37	2.29				
9	0.82	1.32	0.63	1.7	0.46	2.13	0.3	2.59		
10	0.88	1.32	0.7	1.64	0.53	2.02	0.38	2.41	0.24	2.82
11	0.93	1.32	0.66	1.6	0.6	1.93	0.44	2.28	0.32	2.65
12	0.97	1.33	0.81	1.58	0.66	1.86	0.51	2.18	0.38	2.51
13	1.01	1.34	0.86	1.56	0.72	1.82	0.57	2.09	0.45	2.39
14	1.05	1.35	0.91	1.55	0.77	1.78	0.63	2.03	0.51	2.3
15	1.08	1.36	0.95	1.54	0.82	1.75	0.69	1.97	0.56	2.21
16	1.1	1.37	0.98	1.54	0.86	1.73	0.74	1.93	0.62	2.15
17	1.13	1.38	1.02	1.54	0.9	1.71	0.78	1.9	0.67	2.1
18	1.16	1.39	1.05	1.53	0.93	1.69	0.92	1.87	0.71	2.06
19	1.18	1.4	1.08	1.53	0.97	1.68	0.86	1.85	0.75	2.02
20	1.2	1.41	1.1	1.54	1	1.68	0.9	1.83	0.79	1.99
21	1.22	1.42	1.13	1.54	1.03	1.67	0.93	1.81	0.83	1.96
22	1.24	1.43	1.15	1.54	1.05	1.66	0.96	1.8	0.96	1.94
23	1.26	1.44	1.17	1.54	1.08	1.66	0.99	1.79	0.9	1.92
24	1.27	1.45	1.19	1.55	1.1	1.66	1.01	1.78	0.93	1.9
25	1.29	1.45	1.21	1.55	1.12	1.66	1.04	1.77	0.95	1.89
26	1.3	1.46	1.22	1.55	1.14	1.65	1.06	1.76	0.98	1.88
27	1.32	1.47	1.24	1.56	1.16	1.65	1.08	1.76	1.01	1.86
28	1.33	1.48	1.26	1.56	1.18	1.65	1.1	1.75	1.03	1.85
29	1.34	1.48	1.27	1.56	1.2	1.65	1.12	1.74	1.05	1.84
30	1.35	1.49	1.28	1.57	1.21	1.65	1.14	1.74	1.07	1.83
31	1.36	1.5	1.3	1.57	1.23	1.65	1.16	1.74	1.09	1.83
32	1.37	1.5	1.31	1.57	1.24	1.65	1.18	1.73	1.11	1.82
33	1.38	1.51	1.32	1.58	1.26	1.65	1.19	1.73	1.13	1.81
34	1.39	1.51	1.33	1.58	1.27	1.65	1.21	1.73	1.15	1.81
35	1.4	1.52	1.34	1.58	1.28	1.65	1.22	1.73	1.16	1.8
36	1.41	1.52	1.35	1.59	1.29	1.65	1.24	1.73	1.18	1.8
37	1.42	1.53	1.36	1.59	1.31	1.66	1.25	1.72	1.19	1.8
38	1.43	1.54	1.37	1.59	1.32	1.66	1.26	1.72	1.21	1.79
39	1.43	1.54	1.38	1.6	1.33	1.66	1.27	1.72	1.22	1.79
40	1.44	1.54	1.39	1.6	1.34	1.66	1.29	1.72	1.23	1.79
45	1.48	1.57	1.43	1.62	1.38	1.67	1.34	1.72	1.29	1.78
50	1.5	1.59	1.46	1.63	1.42	1.67	1.38	1.72	1.34	1.77
55	1.53	1.6	1.49	1.64	1.45	1.68	1.41	1.72	1.38	1.77
60	1.55	1.62	1.51	1.65	1.48	1.69	1.44	1.73	1.41	1.77
65	1.57	1.63	1.54	1.66	1.5	1.7	1.47	1.73	1.44	1.77
70	1.58	1.64	1.55	1.67	1.52	1.7	1.49	1.74	1.46	1.77
75	1.6	1.65	1.57	1.68	1.54	1.71	1.51	1.74	1.49	1.77
80	1.61	1.66	1.59	1.69	1.56	1.72	1.53	1.74	1.51	1.77
85	1.62	1.67	1.6	1.7	1.57	1.72	1.55	1.75	1.52	1.77
90	1.63	1.68	1.61	1.7	1.59	1.73	1.57	1.75	1.54	1.78
95	1.64	1.69	1.62	1.71	1.6	1.73	1.58	1.75	1.56	1.78
100	1.65	1.69	1.63	1.72	1.61	1.74	1.59	1.76	1.57	1.78
150	1.72	1.75	1.71	1.76	1.69	1.77	1.68	1.79	1.66	1.8
200	1.76	1.78	1.75	1.79	1.74	1.8	1.73	1.81	1.72	1.82