

**CATATAN KONSULTASI
PERIODE KE-I**

BULAN/ TAHUN 20....	URAIAN	TANDA TANGAN	
		PEMB. I	PEMB. II
Februari 2018	Pembahasan BAB I Buat tabel kegiatan panel dan - Perlihatkan fenomena		
Mei 2018	Pembahasan BAB II Perbaiki penulisan & EYD - Core paragraf definitif - Tesi dan para ahli minimal 3		
Juni 2018	Pembahasan BAB III - Peran dan Populasi - Peran dan Jangkel		

Kartu ini harus dibawa pada waktu konsultasi.

CATATAN KONSULTASI PERIODE KE-II

BULAN/ TAHUN 20....	URAIAN	TANDA TANGAN	
		PEMB. I	PEMB. II
Juli 2018	Pembahasan BAB III Siap u/ sidang UP Koreksi S. UP diperbaiki Mhs. Siap Salang Shipti		

Kartu ini harus dibawa pada waktu konsultasi.

SURAT KETERANGAN

Yang Bertandatangan dibawah ini :

Nama : Moch Hanafi Fauzi Seva
Jabatan : Relationship Officer

Menerangkan Bahwa :

Nama : Ivan Somantri
NPM : A1011312RB4002
Asal Kampus : Universitas Sangga Buana YPKP Bandung
Jurusan : Manajemen

Telah Melaksanakan penelitian di **Kiwoom Sekuritas Bandung** mulai dari bulan Maret 2018 sampai dengan Agustus 2018 untuk memperoleh data guna penyusunan skripsi.

Demikian surat keterangan ini dibuat untuk dapat digunakan sebagaimana mestinya.

Bandung, 28 Maret 2018

Kiwoom Sekuritas Bandung


KIWOOM 
SECURITIES INDONESIA

Moch Hanafi Fauzi Seva

TABULASI DATA KEUANGAN PERUSAHAAN SAMPEL

KODE	NAMA PERUSAHAAN	TAHUN	PER	DER	DPR	PBV
ADRO	ADARO ENERGY	2013	12.43	110.72%	34.72%	1.070
		2014	15.11	49.18%	37.26%	0.971
		2015	7.87	43.73%	54.33%	0.419
		2016	12.12	72.28%	32.90%	1.289
		2017	9.13	67.76%	29.00%	1.273
ELSA	ELNUSA	2013	10.05	93.74%	49.11%	1.172
		2014	11.74	66.97%	25.74%	2.157
		2015	4.80	67.26%	56.09%	0.753
		2016	9.86	45.63%	24.15%	1.173
		2017	10.99	59.09%	12.58%	0.968
ITMG	INDO TAMBANGRAYA MEGAH	2013	13.06	49.06%	131.25%	2.980
		2014	7.04	48.14%	99.55%	1.587
		2015	7.12	41.20%	181.50%	0.579
		2016	10.47	33.32%	31.19%	1.564
		2017	6.64	41.80%	76.47%	1.802
MYOH	SAMINDO RESOURCES	2013	6.19	132.13%	22.19%	1.391
		2014	3.25	102.44%	18.45%	0.910
		2015	3.40	72.72%	32.44%	0.901
		2016	4.91	245.39%	37.75%	0.969
		2017	9.27	32.70%	138.50%	1.119
RUIS	RADIANT UTAMA INTERISCO	2013	4.99	398.72%	19.49%	0.576
		2014	2.98	317.16%	10.30%	0.550
		2015	4.01	222.61%	18.65%	0.489
		2016	6.97	172.19%	22.15%	0.505
		2017	8.54	152.27%	22.08%	0.470
TINS	TIMAH	2013	20.51	91.12%	37.17%	2.701
		2014	13.67	118.76%	42.09%	2.036
		2015	36.07	72.77%	188.41%	0.700
		2016	31.62	68.89%	12.10%	1.416
		2017	11.57	95.93%	15.04%	0.952
TOBA	TOBA BARA SEJAHTERA	2013	6.63	138.76%	6.17%	1.175
		2014	7.41	111.87%	52.16%	1.210
		2015	8.74	82.04%	30.07%	0.810
		2016	66.52	77.05%	40.61%	1.562
		2017	14.28	99.28%	3.91%	2.115
PTBA	TAMBANG BATUBARA BUKIT ASAM	2013	12.41	54.63%	89.21%	2.982
		2014	13.48	74.32%	53.98%	3.232
		2015	4.81	81.90%	35.57%	1.040
		2016	13.13	76.04%	30.44%	2.529
		2017	5.79	59.33%	13.44%	1.905

TABULASI DATA KEPUTUSAN INVESTASI (X1) PERUSAHAAN SAMPEL

KODE	NAMA PERUSAHAAN	TAHUN	HARGA PASAR	LABA PER SAHAM (EPS)	PER
ADRO	ADARO ENERGY	2013	1,090	87.68	12.43
		2014	1,040	68.84	15.11
		2015	515	65.42	7.87
		2016	1,695	139.86	12.12
		2017	1,860	203.68	9.13
ELSA	ELNUSA	2013	330	32.82	10.05
		2014	685	58.33	11.74
		2015	247	51.43	4.80
		2016	420	39.21	9.86
		2017	372	31.17	10.99
ITMG	INDO TAMBANGRAYA MEGAH	2013	28,500	2200.15	13.06
		2014	15,375	2201.58	7.04
		2015	5,725	748.12	7.12
		2016	16,875	1585.04	10.47
		2017	20,700	3120.98	6.64
MYOH	SAMINDO RESOURCES	2013	490	79.00	6.19
		2014	458	140.95	3.25
		2015	525	154.35	3.40
		2016	630	128.57	4.91
		2017	700	75.04	9.27
RUIS	RADIANT UTAMA INTERISCO	2013	192	38.48	4.99
		2014	217	72.79	2.98
		2015	215	53.61	4.01
		2016	236	33.86	6.97
		2017	232	27.17	8.54
TINS	TIMAH	2013	1,600	77.95	20.51
		2014	1,230	90.36	13.67
		2015	505	13.64	36.07
		2016	1,075	33.81	31.62
		2017	775	67.46	11.57
TOBA	TOBA BARA SEJAHTERA	2013	740	111.75	6.63
		2014	920	124.72	7.41
		2015	675	77.84	8.74
		2016	1,245	18.58	66.52
		2017	2,070	144.32	14.28
PTBA	TAMBANG BATUBARA BUKIT ASAM	2013	10,200	822.43	12.41
		2014	12,500	855.85	13.48
		2015	4,525	941.02	4.81
		2016	12,500	951.67	13.13
		2017	2,460	424.69	5.79

TABULASI DATA KEBIJAKAN HUTANG (X2) PERUSAHAAN SAMPEL

KODE	NAMA PERUSAHAAN	TAHUN	TOTAL LIABILITIES	TOTAL EKUITAS	DER
ADRO	ADARO ENERGY	2013	42,669,724,096,000	38,538,357,280,000	110.72%
		2014	39,045,064,176,000	79,390,808,592,000	49.18%
		2015	35,764,273,436,000	81,788,141,654,000	43.73%
		2016	36,582,597,375,000	50,613,456,458,000	72.28%
		2017	37,373,569,600,000	55,155,131,960,000	67.76%
ELSA	ELNUSA	2013	2,118,153,000,000	2,259,609,000,000	93.74%
		2014	1,707,428,000,000	2,549,456,000,000	66.97%
		2015	1,772,327,000,000	2,635,186,000,000	67.26%
		2016	1,313,213,000,000	2,877,743,000,000	45.63%
		2017	1,803,449,000,000	3,051,920,000,000	59.09%
ITMG	INDO TAMBANGRAYA MEGAH	2013	5,301,924,992,000	10,806,702,912,000	49.06%
		2014	5,271,468,372,000	10,949,826,360,000	48.14%
		2015	4,605,281,370,000	11,178,891,015,000	41.20%
		2016	4,062,535,832,000	12,192,229,480,000	33.32%
		2017	5,426,299,152,000	12,980,867,172,000	41.80%
MYOH	SAMINDO RESOURCES	2013	1,028,390,776,512	778,340,196,256	132.13%
		2014	1,139,736,747,430	1,112,593,181,220	102.44%
		2015	936,475,271,785	1,287,729,948,870	72.72%
		2016	531,725,250,369	216,682,222,176	245.39%
		2017	451,938,999,360	1,382,257,303,640	32.70%
RUIS	RADIANT UTAMA INTERISCO	2013	1,023,110,858,074	256,598,546,270	398.72%
		2014	962,876,563,256	303,595,207,605	317.16%
		2015	753,340,426,009	338,413,465,428	222.61%
		2016	619,413,387,232	359,719,063,530	172.19%
		2017	579,058,872,159	380,288,865,591	152.27%
TINS	TIMAH	2013	4,020,647,000,000	4,412,278,000,000	91.12%
		2014	5,344,017,000,000	4,499,801,000,000	118.76%
		2015	3,908,615,000,000	5,371,068,000,000	72.77%
		2016	3,894,946,000,000	5,653,685,000,000	68.89%
		2017	5,814,816,000,000	6,061,493,000,000	95.93%
TOBA	TOBA BARA SEJAHTERA	2013	2,196,799,058,336	1,583,172,298,464	138.76%
		2014	2,190,585,660,670	1,958,133,095,940	111.87%
		2015	1,755,461,177,210	2,139,855,555,205	82.04%
		2016	1,521,978,096,425	1,975,195,338,146	77.05%
		2017	2,351,101,020,540	2,368,182,582,804	99.28%
PTBA	TAMBANG BATUBARA BUKIT ASAM	2013	4,125,586,000,000	7,551,569,000,000	54.63%
		2014	6,335,533,000,000	8,525,078,000,000	74.32%
		2015	7,606,496,000,000	9,287,547,000,000	81.90%
		2016	8,024,369,000,000	10,552,405,000,000	76.04%
		2017	8,187,497,000,000	13,799,985,000,000	59.33%

TABULASI DATA KEBIJAKAN DIVIDEN (X3) PERUSAHAAN SAMPEL

KODE	NAMA PERUSAHAAN	TAHUN	LABA PER LEMBAR SAHAM (EPS)	DIVIDEND PER SHARE (DPS)	DPR
ADRO	ADARO ENERGY	2013	87.68	30.44	34.72%
		2014	68.84	25.65	37.26%
		2015	65.42	35.54	54.33%
		2016	139.86	46.01	32.90%
		2017	203.68	59.06	29.00%
ELSA	ELNUSA	2013	32.82	16.12	49.11%
		2014	58.33	15.01	25.74%
		2015	51.43	28.85	56.09%
		2016	39.21	9.47	24.15%
		2017	31.17	3.92	12.58%
ITMG	INDO TAMBANGRAYA MEGAH	2013	2,200.15	2,887.79	131.25%
		2014	2,201.58	2,191.65	99.55%
		2015	748.12	1,357.82	181.50%
		2016	1,585.04	494.35	31.19%
		2017	3,120.98	2,386.64	76.47%
MYOH	SAMINDO RESOURCES	2013	79.00	17.53	22.19%
		2014	140.95	26.00	18.45%
		2015	154.35	50.08	32.44%
		2016	128.57	48.53	37.75%
		2017	75.04	103.93	138.50%
RUIS	RADIANT UTAMA INTERISCO	2013	38.48	7.50	19.49%
		2014	72.79	7.50	10.30%
		2015	53.61	10.00	18.65%
		2016	33.86	7.50	22.15%
		2017	27.17	6.00	22.08%
TINS	TIMAH	2013	77.95	28.97	37.17%
		2014	90.36	38.04	42.09%
		2015	13.64	25.70	188.41%
		2016	33.81	4.09	12.10%
		2017	67.46	10.14	15.04%
TOBA	TOBA BARA SEJAHTERA	2013	111.75	6.90	6.17%
		2014	124.72	65.05	52.16%
		2015	77.84	23.41	30.07%
		2016	18.58	7.54	40.61%
		2017	144.32	5.65	3.91%
PTBA	TAMBANG BATUBARA BUKIT ASAM	2013	822.43	733.65	89.21%
		2014	855.85	461.97	53.98%
		2015	941.02	334.74	35.57%
		2016	951.67	289.73	30.44%
		2017	424.69	57.10	13.44%

TABULASI DATA NILAI PERUSAHAAN (Y) PERUSAHAAN SAMPEL

KODE	NAMA PERUSAHAAN	TAHUN	HARGA PASAR	EKUITAS	JUMLAH SAHAM BEREDAR	BV	PBV
ADRO	ADARO ENERGY	2013	1,090	32,589,937,120,000	31,985,962,000	1,019	1.070
		2014	1,040	34,257,476,580,000	31,985,962,000	1,071	0.971
		2015	515	39,337,178,688,000	31,985,962,000	1,230	0.419
		2016	1,695	42,064,997,002,000	31,985,962,000	1,315	1.289
		2017	1,860	46,752,279,600,000	31,985,962,000	1,462	1.273
ELSA	ELNUSA	2013	330	2,232,363,000,000	7,928,500,000	282	1.172
		2014	685	2,518,221,000,000	7,928,500,000	318	2.157
		2015	247	2,600,881,000,000	7,928,500,000	328	0.753
		2016	420	2,839,451,000,000	7,928,500,000	358	1.173
		2017	372	3,047,490,000,000	7,928,500,000	384	0.968
ITMG	INDO TAMBANGRAYA MEGAH	2013	28,500	10,806,702,912,000	1,129,925,000	9,564	2.980
		2014	15,375	10,949,826,360,000	1,129,925,000	9,691	1.587
		2015	5,725	11,178,891,015,000	1,129,925,000	9,893	0.579
		2016	16,875	12,192,229,480,000	1,129,925,000	10,790	1.564
		2017	20,700	12,978,821,424,000	1,129,925,000	11,486	1.802
MYOH	SAMINDO RESOURCES	2013	490	777,030,808,864	2,206,312,500	352	1.391
		2014	458	1,110,738,167,570	2,206,312,500	503	0.910
		2015	525	1,285,649,166,250	2,206,312,500	583	0.901
		2016	630	1,434,581,988,876	2,206,312,500	650	0.969
		2017	700	1,380,187,759,680	2,206,312,500	626	1.119
RUIS	RADIANT UTAMA INTERISCO	2013	192	256,589,317,375	770,000,000	333	0.576
		2014	217	303,586,480,822	770,000,000	394	0.550
		2015	215	338,406,697,102	770,000,000	439	0.489
		2016	236	359,712,259,687	770,000,000	467	0.505
		2017	232	380,282,344,204	770,000,000	494	0.470
TINS	TIMAH	2013	1,600	4,412,166,000,000	7,447,753,454	592	2.701
		2014	1,230	4,499,703,000,000	7,447,753,454	604	2.036
		2015	505	5,370,992,000,000	7,447,753,454	721	0.700
		2016	1,075	5,653,472,000,000	7,447,753,454	759	1.416
		2017	775	6,061,293,000,000	7,447,753,454	814	0.952
TOBA	TOBA BARA SEJAHTERA	2013	740	1,266,971,628,224	2,012,491,000	630	1.175
		2014	920	1,529,818,721,155	2,012,491,000	760	1.210
		2015	675	1,677,595,065,195	2,012,491,000	834	0.810
		2016	1,245	1,604,162,352,800	2,012,491,000	797	1.562
		2017	2,070	1,969,706,571,384	2,012,491,000	979	2.115
PTBA	TAMBANG BATUBARA BUKIT ASAM	2013	10,200	7,437,381,000,000	2,174,134,350	3,421	2.982
		2014	12,500	8,407,847,000,000	2,174,134,350	3,867	3.232
		2015	4,525	9,174,696,000,000	2,108,075,149	4,352	1.040
		2016	12,500	10,421,337,000,000	2,108,075,149	4,944	2.529
		2017	2,460	13,608,095,000,000	10,540,375,745	1,291	1.905

LAMPIRAN OUTPUT EVIEWS

Common Effect Model

Dependent Variable: PBV?
 Method: Pooled Least Squares
 Date: 09/02/18 Time: 14:42
 Sample: 2013 2017
 Included observations: 5
 Cross-sections included: 8
 Total pool (balanced) observations: 40

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.641117	0.302219	5.430231	0.0000
PER?	0.009131	0.010655	0.856981	0.3971
DER?	-0.342785	0.163345	-2.098536	0.0429
DPR?	-0.111350	0.279398	-0.398536	0.6926
R-squared	0.147729	Mean dependent var	1.350017	
Adjusted R-squared	0.076706	S.D. dependent var	0.747432	
S.E. of regression	0.718194	Akaike info criterion	2.270485	
Sum squared resid	18.56888	Schwarz criterion	2.439373	
Log likelihood	-41.40969	Hannan-Quinn criter.	2.331549	
F-statistic	2.080024	Durbin-Watson stat	1.287636	
Prob(F-statistic)	0.120047			

Fixed Effect Model

Dependent Variable: PBV?
 Method: Pooled Least Squares
 Date: 09/02/18 Time: 14:43
 Sample: 2013 2017
 Included observations: 5
 Cross-sections included: 8
 Total pool (balanced) observations: 40

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.276741	0.322922	3.953715	0.0005
PER?	0.012763	0.010953	1.765262	0.0253
DER?	0.073321	0.224046	2.327260	0.0374
DPR?	-0.322518	0.278441	-1.158300	0.2562
Fixed Effects (Cross)				
_ADRO—C	-0.346177			
_ELSA—C	-0.094025			
_ITMG—C	0.616419			
_MYOH—C	-0.212763			
_RUIS—C	-0.954181			
_TINS—C	0.119339			
_TOBA—C	-0.155585			
_PTBA—C	1.026974			

Effects Specification

Cross-section fixed (dummy variables)			
R-squared	0.510332	Mean dependent var	1.350017
Adjusted R-squared	0.341481	S.D. dependent var	0.747432
S.E. of regression	0.606535	Akaike info criterion	2.066308
Sum squared resid	10.66866	Schwarz criterion	2.530750
Log likelihood	-30.32616	Hannan-Quinn criter.	2.234235
F-statistic	3.022376	Durbin-Watson stat	1.881897
Prob(F-statistic)	0.009668		

Random Effect Model

Dependent Variable: PBV?
Method: Pooled EGLS (Cross-section random effects)
Date: 09/02/18 Time: 14:45
Sample: 2013 2017
Included observations: 5
Cross-sections included: 8
Total pool (balanced) observations: 40
Swamy and Arora estimator of component variances

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.490140	0.329096	4.527982	0.0001
PER?	0.010827	0.010251	1.056144	0.2979
DER?	-0.157754	0.183110	-0.861524	0.3947
DPR?	-0.230938	0.263343	-0.876949	0.3863
Random Effects (Cross)				
_ADRO—C	-0.295823			
_ELSA—C	-0.118827			
_ITMG—C	0.303235			
_MYOH—C	-0.136595			
_RUIS—C	-0.422488			
_TINS—C	0.073494			
_TOBA—C	-0.084450			
_PTBA—C	0.681454			

Effects Specification			
	S.D.	Rho	
Cross-section random	0.430480	0.3350	
Idiosyncratic random	0.606535	0.6650	

Weighted Statistics			
R-squared	0.061342	Mean dependent var	0.719702
Adjusted R-squared	-0.016879	S.D. dependent var	0.608527
S.E. of regression	0.613642	Sum squared resid	13.55602
F-statistic	0.784211	Durbin-Watson stat	1.558414
Prob(F-statistic)	0.510593		

Unweighted Statistics			
R-squared	0.099634	Mean dependent var	1.350017
Sum squared resid	19.61673	Durbin-Watson stat	1.076932

Hasil Uji Hausman

Correlated Random Effects - Hausman Test

Equation: Untitled

Test cross-section random effects

Test Summary	Chi-Sq. Statistic	Chi-Sq. d.f.	Prob.
Cross-section random	3.848546	3	0.2783

Cross-section random effects test comparisons:

Variable	Fixed	Random	Var(Diff.)	Prob.
PER	0.012763	0.010827	0.000015	0.6157
DER	0.073321	-0.157754	0.016667	0.0735
DPR	-0.322518	-0.230938	0.008180	0.3113

Cross-section random effects test equation:

Dependent Variable: PBV

Method: Panel Least Squares

Date: 09/03/18 Time: 09:39

Sample: 2013 2017

Periods included: 5

Cross-sections included: 8

Total panel (balanced) observations: 40

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.276741	0.322922	3.953715	0.0005
PER	0.012763	0.010953	1.765262	0.0253
DER	0.073321	0.224046	2.327260	0.0374
DPR	-0.322518	0.278441	-1.158300	0.2562

Effects Specification

Cross-section fixed (dummy variables)

R-squared	0.510332	Mean dependent var	1.350017
Adjusted R-squared	0.341481	S.D. dependent var	0.747432
S.E. of regression	0.606535	Akaike info criterion	2.066308
Sum squared resid	10.66866	Schwarz criterion	2.530750
Log likelihood	-30.32616	Hannan-Quinn criter.	2.234235
F-statistic	3.022376	Durbin-Watson stat	1.881897
Prob(F-statistic)	0.009668		

Hasil Uji LM

Lagrange Multiplier Tests for Random Effects

Null hypotheses: No effects

Alternative hypotheses: Two-sided (Breusch-Pagan) and one-sided (all others) alternatives

	Test Hypothesis		
	Cross-section	Time	Both
Breusch-Pagan	2.274542 (0.1315)	8.333782 (0.0039)	10.60832 (0.0011)
Honda	1.508158 (0.0658)	2.886829 (0.0019)	3.107726 (0.0009)
King-Wu	1.508158 (0.0658)	2.886829 (0.0019)	3.212347 (0.0007)
Standardized Honda	2.215155 (0.0134)	3.609745 (0.0002)	1.054889 (0.1457)
Standardized King-Wu	2.215155 (0.0134)	3.609745 (0.0002)	1.251817 (0.1053)
Gourierioux, et al.*	--	--	10.60832 (< 0.01)

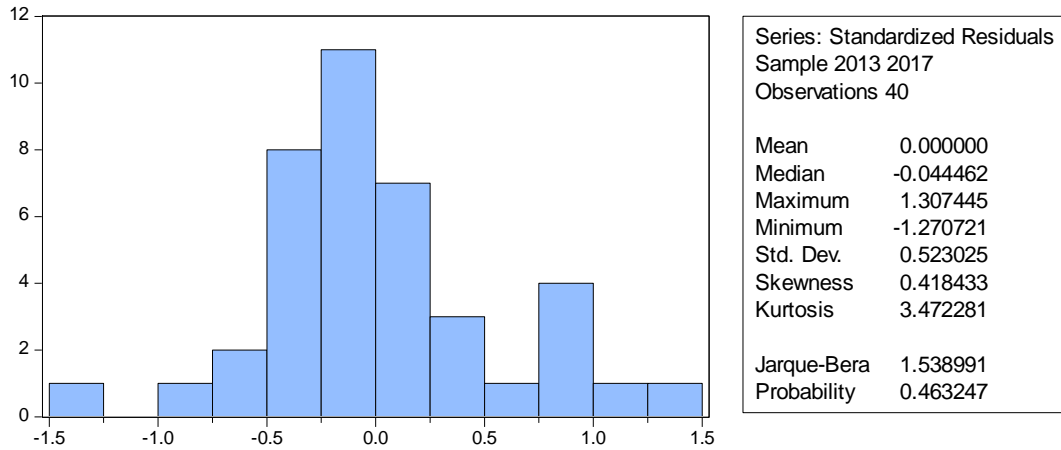
*Mixed chi-square asymptotic critical values:

1%	7.289
5%	4.321
10%	2.952

Statistik Deskriptif

	PBV?	PER?	DER?	DPR?
Mean	1.350017	11.73963	1.010225	0.467053
Median	1.172400	9.202400	0.751800	0.326700
Maximum	3.232300	66.51850	3.987200	1.884100
Minimum	0.418750	2.981200	0.327000	0.039100
Std. Dev.	0.747432	11.11647	0.764231	0.441372
Skewness	0.978815	3.450993	2.298602	1.939638
Kurtosis	3.134547	16.44855	8.368514	6.125296
Jarque-Bera	6.417367	380.8349	83.25870	41.36043
Probability	0.040410	0.000000	0.000000	0.000000
Sum	54.00068	469.5852	40.40900	18.68210
Sum Sq. Dev.	21.78752	4819.461	22.77792	7.597575
Observations	40	40	40	40
Cross sections	8	8	8	8

Uji Normalitas



Uji Multikolinieritas

	CORRELATION		
	PER	DER	DPR
PER	1.000000	-0.222317	0.161024
DER	-0.222317	1.000000	-0.350798
DPR	0.161024	-0.350798	1.000000

Uji White

Heteroskedasticity Test: White

F-statistic	1.613257	Prob. F(9,30)	0.1564
Obs*R-squared	13.04541	Prob. Chi-Square(9)	0.1606
Scaled explained SS	12.16549	Prob. Chi-Square(9)	0.2041

Test Equation:
 Dependent Variable: RESID²
 Method: Least Squares
 Date: 09/12/18 Time: 01:36
 Sample: 1 40
 Included observations: 40

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-1.51E+08	96937952	-1.560503	0.1291
PER ²	-0.001328	0.000536	-2.477383	0.0191
PER*DER	-0.004920	0.083057	-0.059241	0.9532
PER*DPR	0.012233	0.029486	0.414888	0.6812
PER	898.6154	798.2012	1.125801	0.2692
DER ²	-0.102210	0.166743	-0.612983	0.5445
DER*DPR	-1.321461	1.471739	-0.897891	0.3764
DER	7946.489	9870.141	0.805104	0.4271
DPR ²	-1.458199	0.650454	-2.241818	0.0325

DPR	35622.79	15244.72	2.336729	0.0263
R-squared	0.326135	Mean dependent var	46422032	
Adjusted R-squared	0.123976	S.D. dependent var	71339536	
S.E. of regression	66771075	Akaike info criterion	39.08376	
Sum squared resid	1.34E+17	Schwarz criterion	39.50598	
Log likelihood	-771.6751	Hannan-Quinn criter.	39.23642	
F-statistic	1.613257	Durbin-Watson stat	1.650166	
Prob(F-statistic)	0.156371			

Uji Autokorelasi

R-squared	0.510332	Mean dependent var	1.350017
Adjusted R-squared	0.341481	S.D. dependent var	0.747432
S.E. of regression	0.606535	Akaike info criterion	2.066308
Sum squared resid	10.66866	Schwarz criterion	2.530750
Log likelihood	-30.32616	Hannan-Quinn criter.	2.234235
F-statistic	3.022376	Durbin-Watson stat	1.881897
Prob(F-statistic)	0.009668		

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

Tabel Durbin-Watson (DW), $\alpha = 5\%$

n	k=1		k=2		k=3		k=4		k=5	
	dL	dU	dL	dU	dL	dU	dL	dU	dL	dU
6	0.6102	1.4002								
7	0.6996	1.3564	0.4672	1.8964						
8	0.7629	1.3324	0.5591	1.7771	0.3674	2.2866				
9	0.8243	1.3199	0.6291	1.6993	0.4548	2.1282	0.2957	2.5881		
10	0.8791	1.3197	0.6972	1.6413	0.5253	2.0163	0.3760	2.4137	0.2427	2.8217
11	0.9273	1.3241	0.7580	1.6044	0.5948	1.9280	0.4441	2.2833	0.3155	2.6446
12	0.9708	1.3314	0.8122	1.5794	0.6577	1.8640	0.5120	2.1766	0.3796	2.5061
13	1.0097	1.3404	0.8612	1.5621	0.7147	1.8159	0.5745	2.0943	0.4445	2.3897
14	1.0450	1.3503	0.9054	1.5507	0.7667	1.7788	0.6321	2.0296	0.5052	2.2959
15	1.0770	1.3605	0.9455	1.5432	0.8140	1.7501	0.6852	1.9774	0.5620	2.2198
16	1.1062	1.3709	0.9820	1.5386	0.8572	1.7277	0.7340	1.9351	0.6150	2.1567
17	1.1330	1.3812	1.0154	1.5361	0.8968	1.7101	0.7790	1.9005	0.6641	2.1041
18	1.1576	1.3913	1.0461	1.5353	0.9331	1.6961	0.8204	1.8719	0.7098	2.0600
19	1.1804	1.4012	1.0743	1.5355	0.9666	1.6851	0.8588	1.8482	0.7523	2.0226
20	1.2015	1.4107	1.1004	1.5367	0.9976	1.6763	0.8943	1.8283	0.7918	1.9908
21	1.2212	1.4200	1.1246	1.5385	1.0262	1.6694	0.9272	1.8116	0.8286	1.9635
22	1.2395	1.4289	1.1471	1.5408	1.0529	1.6640	0.9578	1.7974	0.8629	1.9400
23	1.2567	1.4375	1.1682	1.5435	1.0778	1.6597	0.9864	1.7855	0.8949	1.9196
24	1.2728	1.4458	1.1878	1.5464	1.1010	1.6565	1.0131	1.7753	0.9249	1.9018
25	1.2879	1.4537	1.2063	1.5495	1.1228	1.6540	1.0381	1.7666	0.9530	1.8863
26	1.3022	1.4614	1.2236	1.5528	1.1432	1.6523	1.0616	1.7591	0.9794	1.8727
27	1.3157	1.4688	1.2399	1.5562	1.1624	1.6510	1.0836	1.7527	1.0042	1.8608
28	1.3284	1.4759	1.2553	1.5596	1.1805	1.6503	1.1044	1.7473	1.0276	1.8502
29	1.3405	1.4828	1.2699	1.5631	1.1976	1.6499	1.1241	1.7426	1.0497	1.8409
30	1.3520	1.4894	1.2837	1.5666	1.2138	1.6498	1.1426	1.7386	1.0706	1.8326
31	1.3630	1.4957	1.2969	1.5701	1.2292	1.6500	1.1602	1.7352	1.0904	1.8252
32	1.3734	1.5019	1.3093	1.5736	1.2437	1.6505	1.1769	1.7323	1.1092	1.8187
33	1.3834	1.5078	1.3212	1.5770	1.2576	1.6511	1.1927	1.7298	1.1270	1.8128
34	1.3929	1.5136	1.3325	1.5805	1.2707	1.6519	1.2078	1.7277	1.1439	1.8076
35	1.4019	1.5191	1.3433	1.5838	1.2833	1.6528	1.2221	1.7259	1.1601	1.8029
36	1.4107	1.5245	1.3537	1.5872	1.2953	1.6539	1.2358	1.7245	1.1755	1.7987
37	1.4190	1.5297	1.3635	1.5904	1.3068	1.6550	1.2489	1.7233	1.1901	1.7950
38	1.4270	1.5348	1.3730	1.5937	1.3177	1.6563	1.2614	1.7223	1.2042	1.7916
39	1.4347	1.5396	1.3821	1.5969	1.3283	1.6575	1.2734	1.7215	1.2176	1.7886
40	1.4421	1.5444	1.3908	1.6000	1.3384	1.6589	1.2848	1.7209	1.2305	1.7859
41	1.4493	1.5490	1.3992	1.6031	1.3480	1.6603	1.2958	1.7205	1.2428	1.7835
42	1.4562	1.5534	1.4073	1.6061	1.3573	1.6617	1.3064	1.7202	1.2546	1.7814
43	1.4628	1.5577	1.4151	1.6091	1.3663	1.6632	1.3166	1.7200	1.2660	1.7794
44	1.4692	1.5619	1.4226	1.6120	1.3749	1.6647	1.3263	1.7200	1.2769	1.7777
45	1.4754	1.5660	1.4298	1.6148	1.3832	1.6662	1.3357	1.7200	1.2874	1.7762
46	1.4814	1.5700	1.4368	1.6176	1.3912	1.6677	1.3448	1.7201	1.2976	1.7748
47	1.4872	1.5739	1.4435	1.6204	1.3989	1.6692	1.3535	1.7203	1.3073	1.7736
48	1.4928	1.5776	1.4500	1.6231	1.4064	1.6708	1.3619	1.7206	1.3167	1.7725
49	1.4982	1.5813	1.4564	1.6257	1.4136	1.6723	1.3701	1.7210	1.3258	1.7716
50	1.5035	1.5849	1.4625	1.6283	1.4206	1.6739	1.3779	1.7214	1.3346	1.7708
51	1.5086	1.5884	1.4684	1.6309	1.4273	1.6754	1.3855	1.7218	1.3431	1.7701
52	1.5135	1.5917	1.4741	1.6334	1.4339	1.6769	1.3929	1.7223	1.3512	1.7694
53	1.5183	1.5951	1.4797	1.6359	1.4402	1.6785	1.4000	1.7228	1.3592	1.7689
54	1.5230	1.5983	1.4851	1.6383	1.4464	1.6800	1.4069	1.7234	1.3669	1.7684
55	1.5276	1.6014	1.4903	1.6406	1.4523	1.6815	1.4136	1.7240	1.3743	1.7681
56	1.5320	1.6045	1.4954	1.6430	1.4581	1.6830	1.4201	1.7246	1.3815	1.7678
57	1.5363	1.6075	1.5004	1.6452	1.4637	1.6845	1.4264	1.7253	1.3885	1.7675
58	1.5405	1.6105	1.5052	1.6475	1.4692	1.6860	1.4325	1.7259	1.3953	1.7673
59	1.5446	1.6134	1.5099	1.6497	1.4745	1.6875	1.4385	1.7266	1.4019	1.7672
60	1.5485	1.6162	1.5144	1.6518	1.4797	1.6889	1.4443	1.7274	1.4083	1.7671
61	1.5524	1.6189	1.5189	1.6540	1.4847	1.6904	1.4499	1.7281	1.4146	1.7671
62	1.5562	1.6216	1.5232	1.6561	1.4896	1.6918	1.4554	1.7288	1.4206	1.7671
63	1.5599	1.6243	1.5274	1.6581	1.4943	1.6932	1.4607	1.7296	1.4265	1.7671
64	1.5635	1.6268	1.5315	1.6601	1.4990	1.6946	1.4659	1.7303	1.4322	1.7672
65	1.5670	1.6294	1.5355	1.6621	1.5035	1.6960	1.4709	1.7311	1.4378	1.7673
66	1.5704	1.6318	1.5395	1.6640	1.5079	1.6974	1.4758	1.7319	1.4433	1.7675
67	1.5738	1.6343	1.5433	1.6660	1.5122	1.6988	1.4806	1.7327	1.4486	1.7676
68	1.5771	1.6367	1.5470	1.6678	1.5164	1.7001	1.4853	1.7335	1.4537	1.7678
69	1.5803	1.6390	1.5507	1.6697	1.5205	1.7015	1.4899	1.7343	1.4588	1.7680
70	1.5834	1.6413	1.5542	1.6715	1.5245	1.7028	1.4943	1.7351	1.4637	1.7683

Titik Persentase Distribusi t (df = 1 – 40)

df	Pr 0.25 0.50	0.10 0.20	0.05 0.10	0.025 0.050	0.01 0.02	0.005 0.010	0.001 0.002
1	1.00000	3.07768	6.31375	12.70620	31.82052	63.65674	318.30884
2	0.81650	1.88562	2.91999	4.30265	6.96456	9.92484	22.32712
3	0.76489	1.63774	2.35336	3.18245	4.54070	5.84091	10.21453
4	0.74070	1.53321	2.13185	2.77645	3.74695	4.60409	7.17318
5	0.72669	1.47588	2.01505	2.57058	3.36493	4.03214	5.89343
6	0.71756	1.43976	1.94318	2.44691	3.14267	3.70743	5.20763
7	0.71114	1.41492	1.89458	2.36462	2.99795	3.49948	4.78529
8	0.70639	1.39682	1.85955	2.30600	2.89646	3.35539	4.50079
9	0.70272	1.38303	1.83311	2.26216	2.82144	3.24984	4.29681
10	0.69981	1.37218	1.81246	2.22814	2.76377	3.16927	4.14370
11	0.69745	1.36343	1.79588	2.20099	2.71808	3.10581	4.02470
12	0.69548	1.35622	1.78229	2.17881	2.68100	3.05454	3.92963
13	0.69383	1.35017	1.77093	2.16037	2.65031	3.01228	3.85198
14	0.69242	1.34503	1.76131	2.14479	2.62449	2.97684	3.78739
15	0.69120	1.34061	1.75305	2.13145	2.60248	2.94671	3.73283
16	0.69013	1.33676	1.74588	2.11991	2.58349	2.92078	3.68615
17	0.68920	1.33338	1.73961	2.10982	2.56693	2.89823	3.64577
18	0.68836	1.33039	1.73406	2.10092	2.55238	2.87844	3.61048
19	0.68762	1.32773	1.72913	2.09302	2.53948	2.86093	3.57940
20	0.68695	1.32534	1.72472	2.08596	2.52798	2.84534	3.55181
21	0.68635	1.32319	1.72074	2.07961	2.51765	2.83136	3.52715
22	0.68581	1.32124	1.71714	2.07387	2.50832	2.81876	3.50499
23	0.68531	1.31946	1.71387	2.06866	2.49987	2.80734	3.48496
24	0.68485	1.31784	1.71088	2.06390	2.49216	2.79694	3.46678
25	0.68443	1.31635	1.70814	2.05954	2.48511	2.78744	3.45019
26	0.68404	1.31497	1.70562	2.05553	2.47863	2.77871	3.43500
27	0.68368	1.31370	1.70329	2.05183	2.47266	2.77068	3.42103
28	0.68335	1.31253	1.70113	2.04841	2.46714	2.76326	3.40816
29	0.68304	1.31143	1.69913	2.04523	2.46202	2.75639	3.39624
30	0.68276	1.31042	1.69726	2.04227	2.45726	2.75000	3.38518
31	0.68249	1.30946	1.69552	2.03951	2.45282	2.74404	3.37490
32	0.68223	1.30857	1.69389	2.03693	2.44868	2.73848	3.36531
33	0.68200	1.30774	1.69236	2.03452	2.44479	2.73328	3.35634
34	0.68177	1.30695	1.69092	2.03224	2.44115	2.72839	3.34793
35	0.68156	1.30621	1.68957	2.03011	2.43772	2.72381	3.34005
36	0.68137	1.30551	1.68830	2.02809	2.43449	2.71948	3.33262
37	0.68118	1.30485	1.68709	2.02619	2.43145	2.71541	3.32563
38	0.68100	1.30423	1.68595	2.02439	2.42857	2.71156	3.31903
39	0.68083	1.30364	1.68488	2.02269	2.42584	2.70791	3.31279
40	0.68067	1.30308	1.68385	2.02108	2.42326	2.70446	3.30688

Catatan: Probabilita yang lebih kecil yang ditunjukkan pada judul tiap kolom adalah luas daerah dalam satu ujung, sedangkan probabilitas yang lebih besar adalah luas daerah dalam kedua ujung

Titik Persentase Distribusi Chi-Square untuk d.f. = 1 - 50

df	Pr	0.25	0.10	0.05	0.010	0.005	0.001
1		1.32330	2.70554	3.84146	6.63490	7.87944	10.82757
2		2.77259	4.60517	5.99146	9.21034	10.59663	13.81551
3		4.10834	6.25139	7.81473	11.34487	12.83816	16.26624
4		5.38527	7.77944	9.48773	13.27670	14.86026	18.46683
5		6.62568	9.23636	11.07050	15.08627	16.74960	20.51501
6		7.84080	10.64464	12.59159	16.81189	18.54758	22.45774
7		9.03715	12.01704	14.06714	18.47531	20.27774	24.32189
8		10.21885	13.36157	15.50731	20.09024	21.95495	26.12448
9		11.38875	14.68366	16.91898	21.66599	23.58935	27.87716
10		12.54886	15.98718	18.30704	23.20925	25.18818	29.58830
11		13.70069	17.27501	19.67514	24.72497	26.75685	31.26413
12		14.84540	18.54935	21.02607	26.21697	28.29952	32.90949
13		15.98391	19.81193	22.36203	27.68825	29.81947	34.52818
14		17.11693	21.06414	23.68479	29.14124	31.31935	36.12327
15		18.24509	22.30713	24.99579	30.57791	32.80132	37.69730
16		19.36886	23.54183	26.29623	31.99993	34.26719	39.25235
17		20.48868	24.76904	27.58711	33.40866	35.71847	40.79022
18		21.60489	25.98942	28.86930	34.80531	37.15645	42.31240
19		22.71781	27.20357	30.14353	36.19087	38.58226	43.82020
20		23.82769	28.41198	31.41043	37.56623	39.99685	45.31475
21		24.93478	29.61509	32.67057	38.93217	41.40106	46.79704
22		26.03927	30.81328	33.92444	40.28936	42.79565	48.26794
23		27.14134	32.00690	35.17246	41.63840	44.18128	49.72823
24		28.24115	33.19624	36.41503	42.97982	45.55851	51.17860
25		29.33885	34.38159	37.65248	44.31410	46.92789	52.61966
26		30.43457	35.56317	38.88514	45.64168	48.28988	54.05196
27		31.52841	36.74122	40.11327	46.96294	49.64492	55.47602
28		32.62049	37.91592	41.33714	48.27824	50.99338	56.89229
29		33.71091	39.08747	42.55697	49.58788	52.33562	58.30117
30		34.79974	40.25602	43.77297	50.89218	53.67196	59.70306
31		35.88708	41.42174	44.98534	52.19139	55.00270	61.09831
32		36.97298	42.58475	46.19426	53.48577	56.32811	62.48722
33		38.05753	43.74518	47.39988	54.77554	57.64845	63.87010
34		39.14078	44.90316	48.60237	56.06091	58.96393	65.24722
35		40.22279	46.05879	49.80185	57.34207	60.27477	66.61883
36		41.30362	47.21217	50.99846	58.61921	61.58118	67.98517
37		42.38331	48.36341	52.19232	59.89250	62.88334	69.34645
38		43.46191	49.51258	53.38354	61.16209	64.18141	70.70289
39		44.53946	50.65977	54.57223	62.42812	65.47557	72.05466
40		45.61601	51.80506	55.75848	63.69074	66.76596	73.40196
41		46.69160	52.94851	56.94239	64.95007	68.05273	74.74494
42		47.76625	54.09020	58.12404	66.20624	69.33600	76.08376
43		48.84001	55.23019	59.30351	67.45935	70.61590	77.41858
44		49.91290	56.36854	60.48089	68.70951	71.89255	78.74952
45		50.98495	57.50530	61.65623	69.95683	73.16606	80.07673
46		52.05619	58.64054	62.82962	71.20140	74.43654	81.40033
47		53.12666	59.77429	64.00111	72.44331	75.70407	82.72042
48		54.19636	60.90661	65.17077	73.68264	76.96877	84.03713
49		55.26534	62.03754	66.33865	74.91947	78.23071	85.35056
50		56.33360	63.16712	67.50481	76.15389	79.48998	86.66082