

BAB V

KESIMPULAN, KETERBATASAN DAN SARAN

A. Kesimpulan

Tujuan dari penelitian ini adalah untuk menganalisis apakah terjadi anomali pasar hari perdagangan saham terhadap return saham. Setelah melakukan penelitian terhadap beberapa anomali yaitu : *The day of Week Effect*, *Week Four Effect*, *Ragolsky Effect*, dan *January Effect* terhadap return saham pada perusahaan indeks kompas 100 di Bursa Efek Indonesia periode tahun 2011, maka dapat disimpulkan :

1. Hasil uji yang dilakukan terhadap efek hari perdagangan (*the day of week effect*) return saham dengan menggunakan ANOVA ternyata berhasil membuktikan terjadinya efek hari perdagangan return saham pada tahun 2011 di Bursa Efek Indonesia. Hal ini membuktikan bahwa terjadi fenomena *day of week effect* di Bursa Efek Indonesia, dimana return terendah terjadi pada hari Senin dan return tertinggi terjadi pada hari Rabu. Hasil empiris ini juga memberikan bukti bahwa terjadi *Monday Effect* pada Bursa Efek Indonesia pada tahun 2011.
2. Hasil uji penelitian kedua yang menggunakan *One sample t test* untuk membuktikan efek minggu keempat (*week four effect*) return saham di Bursa Efek Indonesia pada tahun 2011 tidak terbukti terjadi.
3. Hasil uji *independent sample t test* untuk membuktikan *Rogalsky effect* return saham di Bursa Efek Indonesia pada tahun 2011 berhasil

mengidentifikasi terjadinya *Ragolsky Effect* pada bulan April tahun 2011. *Ragolsky Effect* terjadi di Bursa Efek Indonesia, yang ditandai dengan tingginya rata-rata *return* hari Senin pada bulan April dibandingkan rata-rata *return* hari Senin untuk 11 bulan lainnya.

4. Hasil uji One Way Anova untuk membuktikan efek bulan Januari (*January effect*) *return* saham di Bursa Efek Indonesia pada tahun 2011 tidak terjadi. Pada tahun 2011 *return* saham tertinggi terjadi pada bulan Oktober.

B. Keterbatasan

1. Keterbatasan pada penelitian ini adalah terletak pada periode penelitian yang hanya satu tahun yaitu mulai Januari-Desember. Bagi peneliti selanjutnya diharapkan akan lebih baik dengan menambahkan periode penelitian agar pengaruh variasi antar waktunya dapat diamati dengan lebih jelas.
2. Variabel yang digunakan dalam penelitian ini hanya terbatas pada *return* realisasi, sedangkan pada pasar modal ada banyak variabel yang dapat digunakan, seperti misalnya menguji pengaruh hari perdagangan dan *Monday Effect* terhadap *Abnormal Return*, atau penggunaan variabel yang lain seperti volume perdagangan harian dan lain-lain.

C. Saran

Anomali pasar hari perdagangan pada *return* saham di Bursa Efek Indonesia yaitu efek hari perdagangan (*The Day of Week Effect*), efek minggu keempat (*four week effect*), *rogalsky effect*, dan efek bulan Januari

(*January Effect*) ternyata tidak selamanya terjadi, khususnya pada tahun 2011. Anomali tersebut ternyata dapat juga dipengaruhi oleh kondisi eksternal pasar modal seperti kondisi ekonomi dalam dan luar negeri. Untuk itu kepada para investor agar juga mempertimbangkan kondisi internal dan eksternal di Bursa Efek Indonesia yang terjadi untuk dapat memperoleh *return* saham yang maksimal. Sedangkan untuk Bursa Efek Indonesia sendiri juga harus mampu mengeluarkan kebijakan-kebijakan yang dapat membantu para investor agar investor tetap berminat untuk berinvestasi melalui saham yang diperdagangkan.



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http://www.bapepam.go.id/reksadana/files/regulasi/uu_no_8_tahun_1995_pasar_modal.pdf

(<http://id.wikipedia.org/wiki/Saham>)

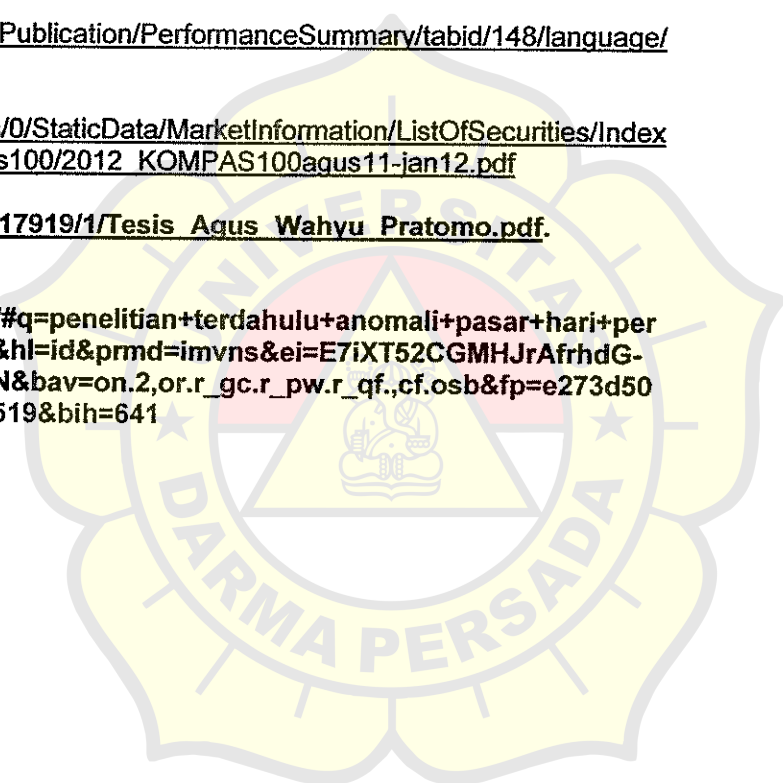
<http://finance.yahoo.com/q?s=^JKSE>

<http://www.idx.co.id/Home/Publication/PerformanceSummary/tabid/148/language/id-ID/Default.aspx>

http://www.idx.co.id/Portals/0/StaticData/MarketInformation/ListOfSecurities/IndexConstituent/Kompas100/2012_KOMPAS100agus11-jan12.pdf

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AnomaliPasar

https://www.google.co.id/#q=penelitian+terdahulu+anomali+pasar+hari+perdagangan+saham&hl=id&prmd=imvns&ei=E7iXT52CGMHJrAfrhdG-AQ&start=40&sa=N&bav=on.2,or.r_gc.r_pw.r_qf.,cf.osb&fp=e273d50ece17367a&biw=1519&bih=641



LAMPIRAN 1

1. The Day Of The Week Effect

Oneway

Descriptives

ata

N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
				Lower Bound	Upper Bound		
50	-.005073476760	.0185103772618	.0026177626568	-.010334067772	.000187114252	-.0650992150	.0317011190
49	.000458450347	.0169980039157	.0024282862737	-.004423946436	.005340847130	-.0418822750	.0586866430
49	.006015949122	.0131540638347	.0018791519764	.002237660844	.009794237401	-.0190153060	.0400667850
49	-.001510681673	.0196948422932	.0028135488990	-.007167700882	.004146337535	-.1044462840	.0480350440
50	-.001624069580	.0150859486741	.0021334753216	-.005911448755	.002663309595	-.0666863400	.0200009230
247	-.000371073462	.0171096284629	.0010886595891	-.002515356368	.001773209445	-.1044462840	.0586866430

Test of Homogeneity of Variances

R_Rata_Rata

Levene Statistic	df1	df2	Sig.
.690	4	242	.600

ANOVA

R_Rata_Rata

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.003	4	.001	2.887	.023
Within Groups	.069	242	.000		
Total	.072	246			

Post Hoc Tests

Multiple Comparisons

R_Rata_Rata

Tukey HSD

(I) Hari	(J) Hari	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Senin	Selasa	-.0055319271069	.0033877479431	.478	-.014843002511	.003779148297
	Rabu	-1.1089425882449E-2	.0033877479431	.011	-.020400501286	-.001778350479
	Kamis	-.0035627950865	.0033877479431	.831	-.012873870490	.005748280317
	Jumat	-.0034494071800	.0033705946788	.844	-.012713337595	.005814523235
Selasa	Senin	.0055319271069	.0033877479431	.478	-.003779148297	.014843002511
	Rabu	-.0055574987755	.0034048147914	.478	-.014915481657	.003800484106
	Kamis	.0019691320204	.0034048147914	.978	-.007388850861	.011327114902
	Jumat	.0020825199269	.0033877479431	.973	-.007228555477	.011393595331
Rabu	Senin	.0110894258824	.0033877479431	.011	.001778350479	.020400501286
	Selasa	.0055574987755	.0034048147914	.478	-.003800484106	.014915481657
	Kamis	.0075266307959	.0034048147914	.179	-.001831352085	.016884613677
	Jumat	.0076400187024	.0033877479431	.163	-.001671056701	.016951094106
Kamis	Senin	.0035627950865	.0033877479431	.831	-.005748280317	.012873870490
	Selasa	-.0019691320204	.0034048147914	.978	-.011327114902	.007388850861
	Rabu	-.0075266307959	.0034048147914	.179	-.016884613677	.001831352085
	Jumat	.0001133879065	.0033877479431	1.000	-.009197687497	.009424463310
Jumat	Senin	.0034494071800	.0033705946788	.844	-.005814523235	.012713337595
	Selasa	-.0020825199269	.0033877479431	.973	-.011393595331	.007228555477
	Rabu	-.0076400187024	.0033877479431	.163	-.016951094106	.001671056701
	Kamis	-.0001133879065	.0033877479431	1.000	-.009424463310	.009197687497

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

R_Rata_Rata

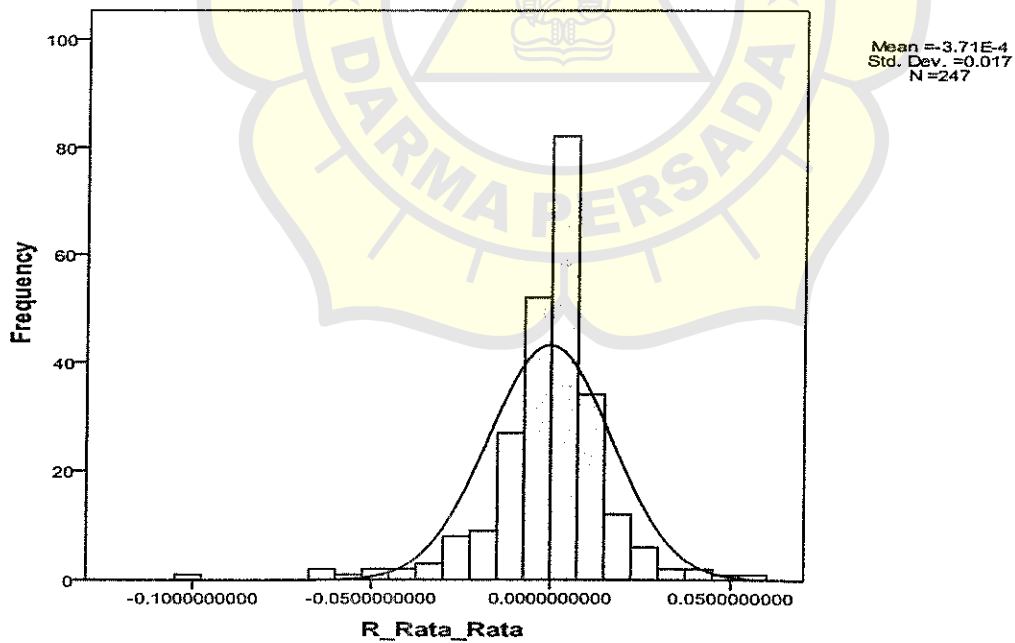
Tukey HSD^{a,b}

Hari	N	Subset for alpha = 0.05	
		1	2
Senin	50	-.005073476760	
Jumat	50	-.001624069580	-.001624069580
Kamis	49	-.001510681673	-.001510681673
Selasa	49	.000458450347	.000458450347
Rabu	49		.006015949122
Sig.		.479	.164

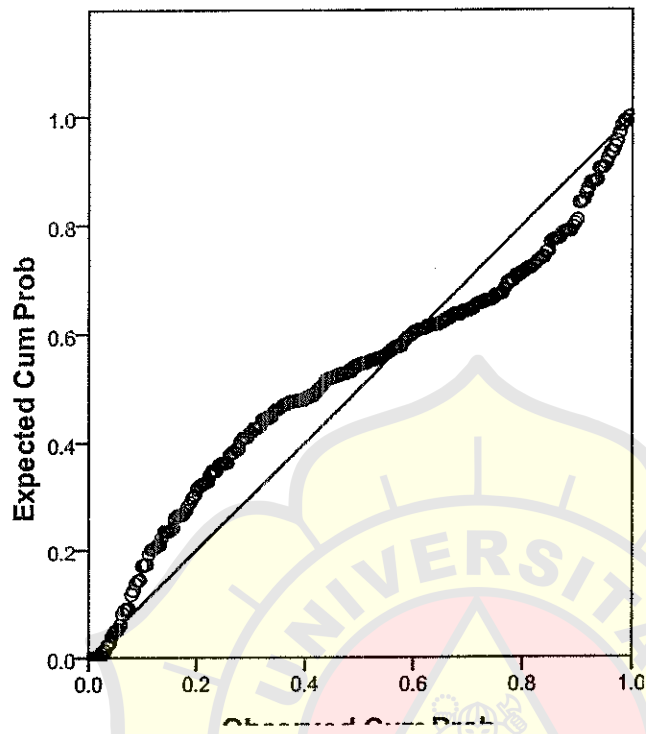
Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 49.395.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.



Normal P-P Plot of R_Rata_Rata



NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
R_Rata_Rata	247	-3.710734615385E-4	.0171096284629	-.1044462840	.0586866430

Runs Test

	R_Rata_Rata
Test Value ^a	.0015270830
Cases < Test Value	123
Cases >= Test Value	124
Total Cases	247
Number of Runs	125
Z	.064
Asymp. Sig. (2-tailed)	.949

a. Median

2. Week Four Effect

T-Test

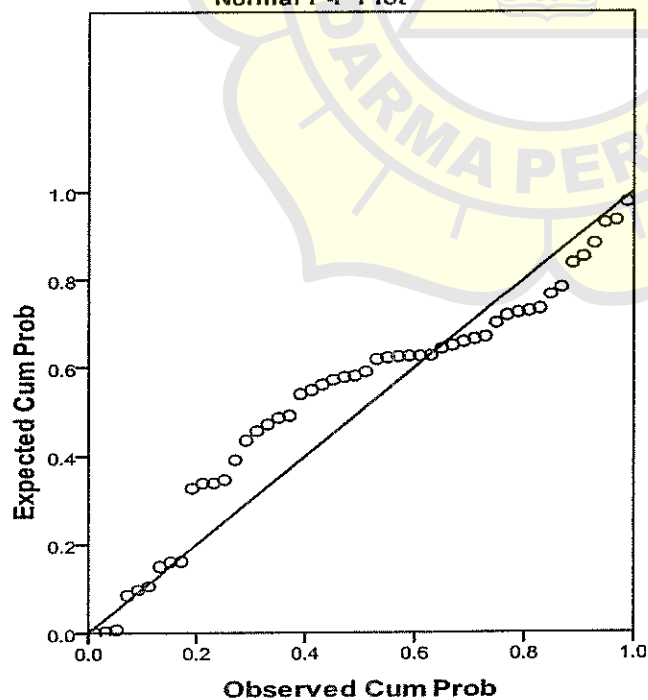
One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
Minggu_Akhir	12	-8.011277250000E-3	.0171774869934	.0049587133698
Minggu_Awal	38	-4.145750289474E-3	.0190355775261	.0030879784383

One-Sample Test

	Test Value = 0					
					95% Confidence Interval of the Difference	
	t	df	Sig. (2-tailed)	Mean Difference	Lower	Upper
Minggu_Akhir	-1.616	11	.134	-.0080112772500	-.018925331790	.002902777290
Minggu_Awal	-1.343	37	.188	-.0041457502895	-.010402588927	.002111088348

Normal P-P Plot



3. Ragolsky Effect

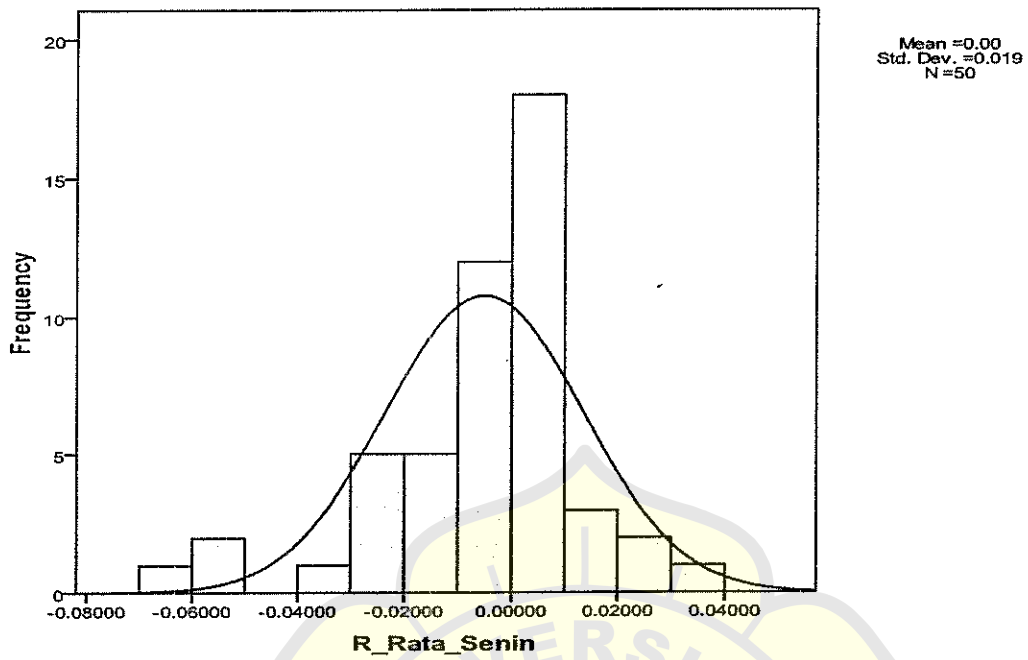
T-Test

Group Statistics

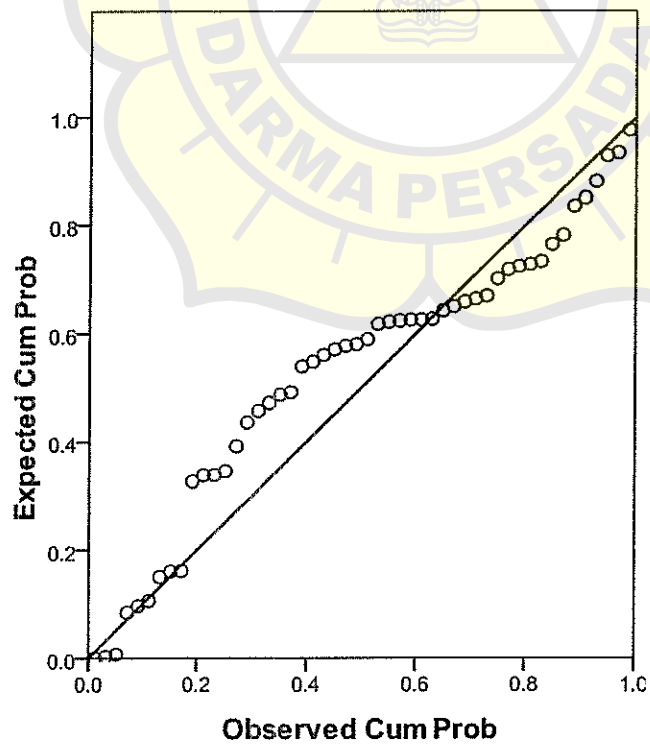
Kode	N	Mean	Std. Deviation	Std. Error Mean
R_Rata_Senin Senin_April	4	-.0004353	.00134681	.00067341
Senin_Non_April	46	-.0054768	.01925853	.00283952

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
								95% Confidence Interval of the Difference		
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
enin	Equal variances assumed	3.643	.062	.519	48	.606	.00504151	.00972200	-.01450588	.02458891
	Equal variances not assumed			1.728	47.930	.091	.00504151	.00291827	-.00082629	.01090932



Normal P-P Plot of R_Rata_Senin



4. January Effect

Oneway

Test of Homogeneity of Variances

R_Return

Levene Statistic	df1	df2	Sig.
5.828	11	235	.000

ANOVA

R_Return

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.003	11	.000	.907	.534
Within Groups	.069	235	.000		
Total	.072	246			

Robust Tests of Equality of Means

R_Return

	Statistic ^a	df1	df2	Sig.
Brown-Forsythe	.895	11	105.306	.548

a. Asymptotically F distributed.

Post Hoc Tests

Multiple Comparisons

_Return

.key HSD

i Kode	(J) Kode	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Januari	Februari	-.00589391	.00550718	.996	-.0240752	.0122873
	Maret	-.00752523	.00517483	.951	-.0246093	.0095588
	April	-.00764720	.00535686	.957	-.0253322	.0100378
	Mei	-.00644745	.00529113	.987	-.0239154	.0110205
	Juni	-.00456162	.00535686	.999	-.0222466	.0131234
	Juli	-.00840133	.00529113	.912	-.0258693	.0090667
	Agustus	-.00028708	.00542858	1.000	-.0182089	.0176347
	September	.00118365	.00535686	1.000	-.0165013	.0188686
	Oktober	-.00914375	.00529113	.853	-.0266117	.0083242
	November	-.00348227	.00523066	1.000	-.0207506	.0137861
	Desember	-.00824349	.00529113	.922	-.0257115	.0092245
Februari	Januari	.00589391	.00550718	.996	-.0122873	.0240752
	Maret	-.00163132	.00539554	1.000	-.0194440	.0161814
	April	-.00175329	.00557036	1.000	-.0201431	.0166366
	Mei	-.00055354	.00550718	1.000	-.0187348	.0176277
	Juni	.00133229	.00557036	1.000	-.0170576	.0197221
	Juli	-.00250742	.00550718	1.000	-.0206887	.0156738
	Agustus	.00560683	.00563937	.998	-.0130108	.0242245
	September	.00707756	.00557036	.982	-.0113123	.0254674
	Oktober	-.00324984	.00550718	1.000	-.0214311	.0149314
	November	.00241164	.00544911	1.000	-.0155779	.0204012
	Desember	-.00234958	.00550718	1.000	-.0205308	.0158317
Maret	Januari	.00752523	.00517483	.951	-.0095588	.0246093
	Februari	.00163132	.00539554	1.000	-.0161814	.0194440

April	-.00012197	.00524201	1.000	-.0174278	.0171839
Mei	.00107778	.00517483	1.000	-.0160063	.0181618
Juni	.00296361	.00524201	1.000	-.0143422	.0202695
Juli	-.00087610	.00517483	1.000	-.0179601	.0162079
Agustus	.00723815	.00531529	.969	-.0103096	.0247859
September	.00870888	.00524201	.884	-.0085970	.0260147
Oktober	-.00161852	.00517483	1.000	-.0187025	.0154655
November	.00404296	.00511298	1.000	-.0128369	.0209228
Desember	-.00071826	.00517483	1.000	-.0178023	.0163658
Januari	.00764720	.00535686	.957	-.0100378	.0253322
Februari	.00175329	.00557036	1.000	-.0166366	.0201431
Maret	.00012197	.00524201	1.000	-.0171839	.0174278
Mei	.00119975	.00535686	1.000	-.0164852	.0188847
Juni	.00308557	.00542179	1.000	-.0148138	.0209849
Juli	-.00075413	.00535686	1.000	-.0184391	.0169309
Agustus	.00736012	.00549267	.973	-.0107732	.0254935
September	.00883085	.00542179	.897	-.0090685	.0267302
Oktober	-.00149655	.00535686	1.000	-.0191815	.0161884
November	.00416493	.00529714	1.000	-.0133229	.0216528
Desember	-.00059629	.00535686	1.000	-.0182813	.0170887
Januari	.00644745	.00529113	.987	-.0110205	.0239154
Februari	.00055354	.00550718	1.000	-.0176277	.0187348
Maret	-.00107778	.00517483	1.000	-.0181618	.0160063
April	-.00119975	.00535686	1.000	-.0188847	.0164852
Juni	.00188583	.00535686	1.000	-.0157992	.0195708
Juli	-.00195388	.00529113	1.000	-.0194219	.0155141
Agustus	.00616038	.00542858	.993	-.0117614	.0240822
September	.00763111	.00535686	.958	-.0100539	.0253161
Oktober	-.00269629	.00529113	1.000	-.0201643	.0147717
November	.00296519	.00523066	1.000	-.0143032	.0202335
Desember	-.00179603	.00529113	1.000	-.0192640	.0156720
Januari	.00456162	.00535686	.999	-.0131234	.0222466

	Februari	-0.0133229	.00557036	1.000	-0.0197221	.0170576
	Maret	-0.0296361	.00524201	1.000	-0.0202695	.0143422
	April	-0.0308557	.00542179	1.000	-0.0209849	.0148138
	Mei	-0.0188583	.00535686	1.000	-0.0195708	.0157992
	Juli	-0.0383971	.00535686	1.000	-0.0215247	.0138453
	Agustus	.00427455	.00549267	1.000	-0.0138588	.0224079
	September	.00574528	.00542179	.996	-0.0121541	.0236446
	Oktober	-0.00458212	.00535686	.999	-0.0222671	.0131029
	November	.00107936	.00529714	1.000	-0.0164085	.0185672
	Desember	-0.0368186	.00535686	1.000	-0.0213669	.0140031
	Januari	.00840133	.00529113	.912	-0.0090667	.0258693
	Februari	.00250742	.00550718	1.000	-0.0156738	.0206887
	Maret	.00087610	.00517483	1.000	-0.0162079	.0179601
	April	.00075413	.00535686	1.000	-0.0169309	.0184391
	Mei	.00195388	.00529113	1.000	-0.0155141	.0194219
	Juni	.00383971	.00535686	1.000	-0.0138453	.0215247
	Agustus	.00811425	.00542858	.941	-0.0098075	.0260360
	September	.00958499	.00535686	.822	-0.0081000	.0272700
	Oktober	-0.0074241	.00529113	1.000	-0.0182104	.0167256
	November	.00491906	.00523066	.999	-0.0123493	.0221874
	Desember	.00015785	.00529113	1.000	-0.0173101	.0176258
us	Januari	.00028708	.00542858	1.000	-0.0176347	.0182089
	Februari	-0.00560683	.00563937	.998	-0.0242245	.0130108
	Maret	-0.00723815	.00531529	.969	-0.0247859	.0103096
	April	-0.00736012	.00549267	.973	-0.0254935	.0107732
	Mei	-0.00616038	.00542858	.993	-0.0240822	.0117614
	Juni	-0.00427455	.00549267	1.000	-0.0224079	.0138588
	Juli	-0.00811425	.00542858	.941	-0.0260360	.0098075
	September	.00147073	.00549267	1.000	-0.0166626	.0196041
	Oktober	-0.00885667	.00542858	.896	-0.0267784	.0090651
	November	-0.00319519	.00536966	1.000	-0.0209224	.0145321
	Desember	-0.00795641	.00542858	.948	-0.0258782	.0099654

ember	Januari	-00118365	.00535686	1.000	-.0188686	.0165013
	Februari	-.00707756	.00557036	.982	-.0254674	.0113123
	Maret	-.00870888	.00524201	.884	-.0260147	.0085970
	April	-.00883085	.00542179	.897	-.0267302	.0090685
	Mei	-.00763111	.00535686	.958	-.0253161	.0100539
	Juni	-.00574528	.00542179	.996	-.0236446	.0121541
	Juli	-.00958499	.00535686	.822	-.0272700	.0081000
	Agustus	-.00147073	.00549267	1.000	-.0196041	.0166626
	Oktober	-.01032740	.00535686	.741	-.0280124	.0073576
	November	-.00466592	.00529714	.999	-.0221537	.0128219
	Desember	-.00942714	.00535686	.838	-.0271121	.0082578
	er	Januari	.00914375	.00529113	.853	-.0083242
Februari		.00324984	.00550718	1.000	-.0149314	.0214311
Maret		.00161852	.00517483	1.000	-.0154655	.0187025
April		.00149655	.00535686	1.000	-.0161884	.0191815
Mei		.00269629	.00529113	1.000	-.0147717	.0201643
Juni		.00458212	.00535686	.999	-.0131029	.0222671
Juli		.00074241	.00529113	1.000	-.0167256	.0162104
Agustus		.00885667	.00542858	.896	-.0090651	.0267784
September		.01032740	.00535686	.741	-.0073576	.0280124
November		.00566148	.00523066	.995	-.0116069	.0229298
Desember		.00090026	.00529113	1.000	-.0165677	.0183682
nber		Januari	.00348227	.00523066	1.000	-.0137861
	Februari	-.00241164	.00544911	1.000	-.0204012	.0155779
	Maret	-.00404296	.00511298	1.000	-.0209228	.0128369
	April	-.00416493	.00529714	1.000	-.0216528	.0133229
	Mei	-.00296519	.00523066	1.000	-.0202335	.0143032
	Juni	-.00107936	.00529714	1.000	-.0185672	.0164085
	Juli	-.00491906	.00523066	.999	-.0221874	.0123493
	Agustus	.00319519	.00536966	1.000	-.0145321	.0209224
	September	.00466592	.00529714	.999	-.0128219	.0221537
	Oktober	-.00566148	.00523066	.995	-.0229298	.0116069

	Desember	-.00476122	.00523066	.999	-.0220296	.0125071
Desember	Januari	.00824349	.00529113	.922	-.0092245	.0257115
	Februari	.00234958	.00550718	1.000	-.0158317	.0205308
	Maret	.00071826	.00517483	1.000	-.0163658	.0178023
	April	.00059629	.00535686	1.000	-.0170887	.0182813
	Mei	.00179603	.00529113	1.000	-.0156720	.0192640
	Juni	.00368186	.00535686	1.000	-.0140031	.0213669
	Juli	-.00015785	.00529113	1.000	-.0176258	.0173101
	Agustus	.00795641	.00542858	.948	-.0099654	.0258782
	September	.00942714	.00535686	.838	-.0082578	.0271121
	Oktober	-.00090026	.00529113	1.000	-.0183682	.0165677
	November	.00476122	.00523066	.999	-.0125071	.0220296

Homogeneous Subsets

R_Return

Tukey HSD

Kode	N	Subset for alpha =
		0.05
		1
September	20	-.0066507
Januari	21	-.0054670
Agustus	19	-.0051799
November	22	-.0019847
Juni	20	-.0009054
Februari	18	.0004269
Mei	21	.0009804
Maret	23	.0020582
April	20	.0021802
Desember	21	.0027765
Juli	21	.0029343
Oktober	21	.0036767
Sig.		.740

One-Sample Kolmogorov-Smirnov Test

		Reratar_Return
N		232
Normal Parameters ^{a,b}	Mean	.0009658
	Std. Deviation	.01112216
Most Extreme Differences	Absolute	.070
	Positive	.053
	Negative	-.070
Kolmogorov-Smirnov Z		1.067
Asymp. Sig. (2-tailed)		.205

a. Test distribution is Normal.

b. Calculated from data.

NPar Tests

Runs Test

	R_Return
Test Value ^a	.00153
Cases < Test Value	123
Cases >= Test Value	124
Total Cases	247
Number of Runs	129
Z	.574
Asymp. Sig. (2-tailed)	.566

a. Median

LAMPIRAN 2

1. Tabel F

The F Distribution: Values of F (alpha = 0.05)

0.05

df1										
1	2	3	4	5	6	7	8	9	10	df2
44764	199.50000	215.70735	224.58324	230.16188	233.98600	236.76840	238.88269	240.54325	241.88175	1
51282	19.00000	19.16429	19.24679	19.29641	19.32953	19.35322	19.37099	19.38483	19.39590	2
12796	9.55209	9.27663	9.11718	9.01346	8.94065	8.88674	8.84524	8.81230	8.78552	3
0865	6.94427	6.59138	6.38823	6.25606	6.16313	6.09421	6.04104	5.99878	5.96437	4
0789	5.78614	5.40945	5.19217	5.05033	4.95029	4.87587	4.81832	4.77247	4.73506	5
8738	5.14325	4.75706	4.53368	4.38737	4.28387	4.20666	4.14680	4.09902	4.05996	6
9145	4.73741	4.34683	4.12031	3.97152	3.86597	3.78704	3.72573	3.67667	3.63652	7
1766	4.45897	4.06618	3.83785	3.68750	3.58058	3.50046	3.43810	3.38813	3.34716	8
1736	4.25649	3.86255	3.63309	3.48166	3.37375	3.29275	3.22958	3.17889	3.13728	9
6460	4.10282	3.70826	3.47805	3.32583	3.21717	3.13546	3.07166	3.02038	2.97824	10
4434	3.98230	3.58743	3.35669	3.20387	3.09461	3.01233	2.94799	2.89622	2.85362	11
4723	3.88529	3.49029	3.25917	3.10588	2.99612	2.91336	2.84857	2.79638	2.75339	12
6719	3.80557	3.41053	3.17912	3.02544	2.91527	2.83210	2.76691	2.71436	2.67102	13
0011	3.73889	3.34389	3.11225	2.95825	2.84773	2.76420	2.69867	2.64579	2.60216	14
4308	3.68232	3.28738	3.05557	2.90129	2.79046	2.70663	2.64080	2.58763	2.54372	15
9400	3.63372	3.23887	3.00692	2.85241	2.74131	2.65720	2.59110	2.53767	2.49351	16
5132	3.59153	3.19678	2.96471	2.81000	2.69866	2.61430	2.54796	2.49429	2.44992	17
1387	3.55456	3.15991	2.92774	2.77285	2.66130	2.57672	2.51016	2.45628	2.41170	18
8075	3.52189	3.12735	2.89511	2.74006	2.62832	2.54353	2.47677	2.42270	2.37793	19
5124	3.49283	3.09839	2.86608	2.71089	2.59898	2.51401	2.44706	2.39281	2.34788	20
2479	3.46680	3.07247	2.84010	2.68478	2.57271	2.48758	2.42046	2.36605	2.32095	21
0095	3.44336	3.04913	2.81671	2.66127	2.54906	2.46377	2.39650	2.34194	2.29670	22
7934	3.42213	3.02800	2.79554	2.64000	2.52766	2.44223	2.37481	2.32011	2.27473	23
5968	3.40283	3.00879	2.77629	2.62065	2.50819	2.42263	2.35508	2.30024	2.25474	24
4170	3.38519	2.99124	2.75871	2.60299	2.49041	2.40473	2.33706	2.28210	2.23647	25
2520	3.36902	2.97515	2.74259	2.58679	2.47411	2.38831	2.32053	2.26545	2.21972	26
1001	3.35413	2.96035	2.72777	2.57189	2.45911	2.37321	2.30531	2.25013	2.20429	27
9597	3.34039	2.94669	2.71408	2.55813	2.44526	2.35926	2.29126	2.23598	2.19004	28
7088	3.31583	2.92228	2.68963	2.53355	2.42052	2.33434	2.26616	2.21070	2.16458	30
8475	3.23173	2.83875	2.60597	2.44947	2.33585	2.24902	2.18017	2.12403	2.07725	40
3431	3.18261	2.79001	2.55718	2.40041	2.28644	2.19920	2.12992	2.07335	2.02614	50
0119	3.15041	2.75808	2.52522	2.36827	2.25405	2.16654	2.09697	2.04010	1.99259	60
2012	3.07178	2.68017	2.44724	2.28985	2.17501	2.08677	2.01643	1.95876	1.91046	120
4155	2.99582	2.60500	2.37202	2.21419	2.09869	2.00968	1.93851	1.87998	1.83080	100,000

2. Tabel t

df=(n-k)	$\alpha = 0.05$	$\alpha = 0.025$
1	6.314	12.706
2	2.920	4.303
3	2.353	3.182
4	2.132	2.776
5	2.015	2.571
6	1.943	2.447
7	1.895	2.365
8	1.860	2.306
9	1.833	2.262
10	1.812	2.228
11	1.796	2.201
12	1.782	2.179
13	1.771	2.160
14	1.761	2.145
15	1.753	2.131
16	1.746	2.120
17	1.740	2.110
18	1.734	2.101
19	1.729	2.093
20	1.725	2.086
21	1.721	2.080
22	1.717	2.074
23	1.714	2.069
24	1.711	2.064

df=(n-k)	$\alpha = 0.05$	$\alpha = 0.025$
51	1.675	2.008
52	1.675	2.007
53	1.674	2.006
54	1.674	2.005
55	1.673	2.004
56	1.673	2.003
57	1.672	2.002
58	1.672	2.002
59	1.671	2.001
60	1.671	2.000
61	1.670	2.000
62	1.670	1.999
63	1.669	1.998
64	1.669	1.998
65	1.669	1.997
66	1.668	1.997
67	1.668	1.996
68	1.668	1.995
69	1.667	1.995
70	1.667	1.994
71	1.667	1.994
72	1.666	1.993
73	1.666	1.993
74	1.666	1.993

25	1.708	2.060
26	1.706	2.056
27	1.703	2.052
28	1.701	2.048
29	1.699	2.045
30	1.697	2.042
31	1.696	2.040
32	1.694	2.037
33	1.692	2.035
34	1.691	2.032
35	1.690	2.030
36	1.688	2.028
37	1.687	2.026
38	1.686	2.024
39	1.685	2.023
40	1.684	2.021
41	1.683	2.020
42	1.682	2.018
43	1.681	2.017
44	1.680	2.015
45	1.679	2.014
46	1.679	2.013
47	1.678	2.012
48	1.677	2.011
49	1.677	2.010
50	1.676	2.009

75	1.665	1.992
76	1.665	1.992
77	1.665	1.991
78	1.665	1.991
79	1.664	1.990
80	1.664	1.990
81	1.664	1.990
82	1.664	1.989
83	1.663	1.989
84	1.663	1.989
85	1.663	1.988
86	1.663	1.988
87	1.663	1.988
88	1.662	1.987
89	1.662	1.987
90	1.662	1.987
91	1.662	1.986
92	1.662	1.986
93	1.661	1.986
94	1.661	1.986
95	1.661	1.985
96	1.661	1.985
97	1.661	1.985
98	1.661	1.984
99	1.660	1.984
100	1.660	1.984

-0.021978907	0.072103294	0.039609138	0.018868484	-0.017604625	-0.03333642	-0.013145729	-0.035550984	0.036813973	0.012345936	0	0.007722046	-0.026317308
-0.022472856	-0.00873368	-0.019608471	-0.018868484	0.005970167	0	-0.019084549	-0.068608375	0	0	0	0.015267472	-0.027028672
-0.011428696	-0.029669247	-0.020000667	0	-0.018018508	0.03333642	0	-0.020379162	-0.024391453	-0.012345936	0.015267472	-0.007604599	-0.070951736
-0.03256562	-0.027393674	0.041242935	-0.0056545	-0.02451105	-0.03333642	-0.037295735	0.040065335	0.026001302	0.03154655	-0.015267472	-0.023167059	-0.076372978
-0.036813973	-0.010050336	-0.011049836	0	0.006514681	0.018349139	-0.0268889	-0.00315956	-0.026668247	-0.034605529	-0.015748357	-0.034486176	0.103540679
0.048790164	0.0589405	0.064538521	0.019802627	0.056797598	0.053109825	0.045089805	0.020877585	0.039740329	0.013986242	0.015748357	0.017391743	0.032260862
0.068992871	0	0	-0.009852296	0.006116227	0	0.03350067	-0.0082398803	-0.013072082	0	-0.015748357	0.017094433	0.031252544
0	0	0.010382787	0	0.019173985	0.017391743	-0.01195804	0	0.013072082	0	-0.015000844	0.025105921	0
-0.022472856	0.038098846	0.021277398	0.009950331	0	0	-0.011976191	-0.009528923	0.013245227	0	-0.016260521	-0.025533302	0.015504187
-0.011428696	-0.00939974	-0.010582109	0.009852296	-0.042819997	-0.037041272	-0.016194886	0.041672696	-0.013245227	0	0.016260521	-0.008658063	0
-0.03609132	-0.078471615	-0.032435276	-0.009852296	-0.031748698	-0.078471615	-0.043802823	-0.024794659	-0.027028672	-0.021053409	-0.049596941	-0.00873368	-0.015504187
-0.036367644	-0.01672688	-0.011049836	-0.009950331	-0.05799253	-0.020819287	-0.050288818	0.01369163	0.013793322	0.021506205	0.016907118	-0.044859566	0
0.012270093	0.051825068	0.033901552	0	0.020906685	0.061875404	0.072594222	0.059010421	0.027779664	0.014706147	0.067822596	0.036367644	0.031252544
-0.012739026	-0.030771659	0.011049836	0	0.006872879	0.019802627	-0.022124796	0.024097552	-0.013793322	0	0	0.043675064	0.015267472
0	0.010362787	0.010823071	0	0.006825565	0.019418066	-0.004484312	0.015748357	0	0	0.016260521	0.00851069	0.044451763
0	-0.020834087	0.021973907	0	-0.00825565	-0.039220713	-0.022729251	0.002925404	-0.013986242	0.014706147	-0.016260521	0.017094433	0.069958568
0.012739026	0.064538521	0.044951388	0	0.020619287	-0.020619287	0.033978354	-0.006153866	0.028987537	-0.031252544	0.032789823	0	0
-0.012739026	0.040821995	0.010929071	-0.020619287	-0.006825565	0.020619287	0.017680503	-0.005157309	0	0.00790518	-0.016260521	0.034786116	0.013793322
0.012739026	0.020920207	0	0	-0.008872879	0	-0.004935972	0.007212806	0	0	-0.03333642	0.025317808	-0.027779584
0.012739026	-0.021053409	-0.011049836	-0.021739987	-0.008872879	-0.020619287	-0.024472857	-0.013218291	-0.014598799	-0.040491361	-0.017391743	-0.008298803	-0.028170877
-0.012739026	-0.021506205	-0.011713301	-0.022223137	-0.020906685	-0.021053409	-0.025086684	-0.012358551	-0.029852963	0.01639381	-0.035718083	-0.016807118	-0.014388737
0.025075486	0.032068315	0	-0.034289073	-0.028573372	-0.021506205	0.002306806	0	-0.015267472	0	-0.018349139	-0.034486176	0
0.011428696	0.032068315	0	0.011560822	0.006872879	-0.021506205	0.025928748	0.003163986	0.015267472	0.016120352	0	0.042925645	0.028573372
0	-0.020834087	0	-0.011560822	0.006872879	-0.021506205	-0.030907537	-0.00505818	-0.015267472	-0.00796817	0	-0.008230499	-0.013986242
-0.013072082	0	0	0	-0.013793322	0.063178902	-0.024972921	0.033901552	0.015267472	0.039220719	0	-0.008298803	-0.028573372
0	0.020834087	0	0	0.013793322	0.040005335	0.01388844	0.038468281	0.029852963	0.03740328	0.027789354	0.024692613	0

89518	0.006557401	0.007017573	-0.004842824	0.017804825	0	0.044451763	-0.047067511	-0.010752792	0.028170877	0	0.039220713	0
79003	0.012987196	0.00873368	0.028710106	0.034685558	0.008583744	0.042559614	0.011976191	0.016086138	0.013793322	0.040273899	0.007662873	0
41128	-0.032789923	-0.00873368	-0.023867481	-0.022389918	-0.008583744	0.027399874	0	0	-0.013793322	0	0	0
89536	-0.054489336	-0.028668927	-0.054489336	-0.07320492	-0.008668169	0.01742202	0.046526016	-0.043446112	-0.02510677	-0.040274999	-0.046683986	0.018037877
01552	-0.053244515	0.028170877	-0.048790164	-0.035590945	-0.018018506	0	-0.005934736	-0.035718083	0	-0.014388737	-0.025105921	-0.016000341
94433	0.053244515	0	0.048790164	0.040821995	0.009049836	0.041964199	0.13872621	0.023953241	0.0588405	0.014388737	0.041499731	0.031748698
51069	-0.01492565	0.018349139	-0.018349139	-0.013989112	-0.018182319	-0.013793322	-0.053204036	0.0111764842	0.014184635	-0.014388737	0.024097552	-0.015748357
41806	0.007480672	0.028807453	0.02448102	0.009786176	0.038038138	-0.013865242	0.010669672	-0.011784842	0.027779554	0	0.00730518	0.015748357
88947	0.015037877	0	0.033901552	-0.009950331	-0.022141126	0.018182319	0.005479466	-0.006079046	0.028170877	-0.014388737	0.0322260862	0
33257	0	-0.008888947	0	-0.040821995	0	0	0	0.006079046	-0.013985242	-0.014598799	0	-0.015748357
58083	-0.038027396	-0.00896867	-0.051239294	-0.053652713	-0.036701387	-0.039220713	-0.033333642	-0.068992871	-0.028573372	-0.014815086	-0.0322260862	0
508132	-0.00775214	-0.027399874	-0.015831455	-0.00798518	-0.038099846	-0.054808336	-0.02855256	-0.081126545	-0.014598799	-0.030305449	-0.016629302	-0.0322260862
10516	0.038027396	0.00896867	0.051239294	0.053652713	0.036701387	0.039220713	0.033333642	0.068992871	0.028573372	0.014815086	0.0322260862	0
207453	0.030305349	0.018992133	0.01754431	0.022141126	0.039220713	-0.013793322	0.023530497	-0.007272759	0.014815086	0.0298852863	0	0.016260521
735674	0.043802623	0	0.059088916	0.028710106	-0.009861911	0.054067221	0.017291497	0.021661497	0.028987537	-0.014815086	-0.008298803	0
33825	-0.021661497	0.027399874	-0.033333642	-0.009478744	-0.013869112	0	0.022599832	0.021202208	-0.028987537	0	0.008298803	0
38803	-0.022141126	-0.009049836	-0.00851089	0.021202208	-0.009755176	-0.027398974	-0.005802256	-0.021202208	-0.014815086	0.015037877	-0.05888417	0
67052	-0.018349139	0.017699577	0.0102565	0.036904557	0.009852296	0.027779564	0.005899722	0	0.030771669	0.102276849	0.053584246	0.016529302
397552	0	0.018349139	0.0102565	0.036904557	0.009852296	0.027779564	0	0.014388737	0	-0.057158414	0	0
397552	0.028852803	0	-0.00508907	0.014235887	0	0.013805652	0.005865119	0	0.018037877	0.014815086	-0.00873986	0
39825	0.01754431	0.00818135	0.00818135	0.0102565	0.009852296	0.027779564	0.017391745	0	0.0102565	0.0102565	0.0102565	0.0102565
336825	0	0	-0.01030937	0.014184835	0.009950331	-0.027398974	0.017094433	0.007272759	-0.046520016	0.014388737	-0.027150989	-0.016807118
325045	-0.022141126	0.134656885	-0.0423334364	-0.050552279	-0.020000667	0.013793322	0.005633818	-0.021978907	-0.016000341	-0.014388737	-0.027908788	0.016807118
399577	0	-0.023905521	-0.017699577	-0.037740328	-0.020408872	0	-0.005633818	-0.045462374	0	-0.014598799	-0.019048195	0
398867	0.022141126	0.054915758	0	0.01092907	0.030048207	0.027779564	-0.011383758	0.064021855	0	0	0.045956983	0.016807118
89689	0.007272759	0.007434978	0.021277398	0.007722046	0	-0.041964199	-0.011560822	-0.016807118	0	0.056352937	-0.009132484	-0.016000341
896867	0	-0.01492565	0.0104713	0.015267472	0.015267472	0	0.041499731	0.031748698	0.031748698	0	0	0
16423	0.035846132	0	0.035401927	0.029852983	0.029270382	-0.028573372	0.011560822	-0.008169311	0	0.076988411	0.036039836	0

DE	BWPT	CPIN	CTRP	CMNP	DEWA	DOID	ENRG	GRN	GTJL	BMTR	GGRM	BYAN	SMCB
52862	0.080629734	-0.016901811	0	-0.021506205	0.013605662	0	0.023347364	-0.008438869	-0.010696289	0	0.001217286	0.018996501	0.011173301
739987	0	0.016901811	0.022472856	0.014388737	0	-0.006006024	-0.007722046	0.025105921	0	0.016000341	-0.002436055	-0.013532006	0.021978907
310916	-0.050562279	0.011111225	-0.011173301	-0.007169489	-0.013605662	-0.018237588	-0.015625318	-0.008288803	-0.010810916	0.015748357	-0.019705071	-0.010899014	-0.010829071
551765	-0.045162374	0.01111225	-0.032569073	-0.028196186	-0.021779564	-0.043994194	-0.023905521	-0.025317608	0.033182207	0.015304187	-0.028024119	-0.008298503	-0.022223197
385907	0.033901552	-0.035297782	-0.012678782	-0.023530497	-0.014815086	-0.006872879	-0.025752496	-0.026202372	-0.01189804	0	0.032970019	0.008388625	-0.0359932009
715814	0.024692613	0.035297782	0.025001302	0.031252544	0.029413885	0.047146778	0.050858417	0.00881063	0.079137321	0.015748357	0.067911206	-0.005571045	0.047628049
367644	0.039845809	0	0.012270093	-0.015504187	0.014388737	-0.028688247	-0.018687052	-0.00881063	-0.021978907	0.030771659	0.017522351	0.008344972	-0.023530497
097552	-0.007043177	0	0.024097552	0	0	0.006779887	0.0043825	-0.008888947	0.01049898	0.015091877	-0.04923009	-0.00556557	-0.01187618
271395	0.018280621	-0.01834458	0	-0.007843177	0	0	0	0	-0.011298555	-0.030305349	-0.030607845	-0.002789402	-0.024391453
010421	0.016000341	-0.005970167	0	0	0	-0.043485112	0	-0.018018506	0.011298555	-0.015504187	0.014755466	0.002789402	-0.037740328
908405	-0.024097552	-0.018127385	-0.050010421	-0.015873349	-0.030305349	-0.037740328	-0.043675064	-0.027651531	-0.034289079	-0.031748998	-0.036614259	-0.002789402	-0.01030937
740329	-0.033080362	-0.062913826	-0.012903405	-0.092623192	0.047252889	0.015504187	-0.027150089	-0.028437935	0	-0.052789923	0	-0.008802266	0.01842447
398974	0.04184711	0.020761691	0.013072082	0.024897552	0.016000341	0.030771659	0.027651531	0	0.045985113	0.016529302	0.038678655	0.028330507	0.006063302
669247	-0.016629302	0.040273989	0	0.016260521	0.015748357	0.029852963	-0.009132484	0.018692133	0.033152207	0.063513406	0.032002731	-0.008415197	0.048864309
245227	0.016529302	0.013072082	0.039221213	0	0	-0.014815086	0.036039936	0.018349139	-0.010929071	0.102278649	0.010443959	-0.002820876	-0.012121381
942802	-0.024887552	-0.00654681	-0.025317608	0	-0.031748998	0.030305349	-0.028907453	0	0	0.040821995	-0.014595737	0.006838818	0
398974	0.04184711	0.020761691	0.013072082	0.024897552	0.016000341	0.030771659	0.027651531	0	0.045985113	0.016529302	0.038678655	0.028330507	0.006063302
398974	0.042200364	0.101989168	0.013072082	0.02449102	0	0.030771659	0.018519048	0	-0.039522692	0.013793322	-0.0121541	0.016304709	0.0050663302
0	0.032523192	-0.012185273	0.012903405	-0.00809721	0	0.007547206	-0.009216655	0.009478744	0	0	0.002713708	0.002691792	-0.0050663302
606652	-0.008032172	0.042048235	0	0	-0.016529302	0.007499672	-0.028170977	-0.009478744	-0.011428696	0.013605662	-0.005134766	-0.006838818	-0.012020417
779564	-0.008438869	-0.030032287	-0.025975486	-0.01639381	-0.016807118	-0.015504187	-0.019048195	-0.009661911	-0.011428696	-0.037740328	-0.01360843	0.005420067	0
184635	-0.017084433	-0.043620622	-0.028688247	0	-0.017084433	-0.031748998	-0.009661911	0	-0.023256862	0.037740328	-0.029852963	-0.005420067	-0.028688247
987537	-0.017391746	-0.045610511	-0.013605662	-0.008298803	-0.017391749	-0.00809721	-0.009756175	-0.009756175	0.01189604	0	-0.020408972	-0.010829071	-0.016349138
120435	0.00873366	0.019882627	-0.013793322	0.009298803	0.017391746	0.063072868	0.009756175	-0.009662266	0	-0.037740328	0.00733979	-0.005508856	0.02710193
504187	-0.01754431	0.006644543	0.01342302	0	-0.017094433	-0.047628049	0.009569451	-0.009950331	-0.011428696	0.025317808	-0.001465202	-0.005524876	-0.016260521
504187	-0.008988647	0.057893978	0	-0.042925045	0	0	0.018868484	0	0.011428696	0	-0.019245598	0.002786253	0.032260862
624622	0.017699577	-0.006268613	0.013245227	0.017391746	0.017094433	-0.008463311	0.008302393	0.09531018	0	0	0.066498483	-0.00554018	-0.028111444

P	INDY	ITMG	INTP	INDF	IPOL	ISAT	DILD	JPPA	JSMR	JPRS	KLBF	KIJA	LPKR
18083	0.038468281	0.039716411	0.033693846	0.029852863	-0.019048195	0.018182319	-0.011976191	0.023947964	-0.007067167	0.03333842	-0.007547206	0.008438969	0.027779564
18098	-0.009478744	0.005295688	0.008995563	-0.029852863	0	0.017857617	0	0.030305349	0	0	0.007547206	0.008366825	0
18098	-0.009569451	-0.023153305	-0.015037877	-0.020408872	-0.019418086	-0.008888947	-0.012121361	-0.015037877	-0.014285957	-0.016529302	-0.022614678	0.016529302	0.013605652
18957	0.049271049	0.039701367	0.027651531	0.026111145	0	-0.04550037	0.057271395	-0.030771658	-0.036534133	-0.03980552	-0.051252844	-0.008230499	-0.055469651
18957	0.041523952	0.031657433	0.025758574	0.025280362	0	0.04550037	0.057271395	-0.030771658	-0.036534133	-0.03980552	-0.051252844	-0.008230499	-0.055469651
0	-0.021506205	0.003638776	-0.006688988	-0.010989122	0	0.005012542	-0.025975486	-0.016529302	0.00809721	-0.035718083	-0.061154423	-0.053109825	-0.093618755
304903	0.078369067	0.044951388	0.003350087	0.037944932	0	0.058268908	0.013072082	0.016529302	0.0472522885	0.035718083	0.110751364	0.053109825	0.032260862
310927	-0.010101096	0.019946264	0.006666691	0.005305052	0	-0.019048195	-0.124297717	0	0.007662873	0	-0.041158072	-0.017391743	0
0	0.005063302	-0.043108160	0.006622543	0.031257544	0	-0.019418086	0.025975486	0.016529302	0.007662873	0.05293204	0.024977892	0.00875369	-0.014000344
248339	0.01030937	-0.002899954	-0.003350087	-0.010416761	-0.019802627	-0.009852296	0.042559614	0.024292893	0.007722046	-0.017094433	0.008438889	-0.00861063	0.032260862
0	-0.0051414	-0.013645436	-0.037611271	-0.010526413	-0.020202707	0	0.027398974	-0.016129382	0	-0.017391743	-0.016949558	-0.017857617	-0.048790164
243612	-0.063851472	-0.042090381	-0.03908135	-0.037740328	0	-0.00950331	-0.055699851	-0.030060862	0.007662873	-0.035718083	-0.017241906	0	-0.051293284
245836	-0.01049336	-0.019838874	-0.021978907	-0.005036866	0	0	-0.0588405	-0.025533302	-0.031010237	0	0.044451763	0.036701367	0
246035	0.01030937	-0.002899954	-0.003350087	-0.010416761	-0.019802627	-0.009852296	0.042559614	0.024292893	0.007722046	-0.017094433	0.008438889	-0.00861063	0.032260862
576386	0.017391743	0.037297877	0.029199155	0.032280862	0	0.005037794	-0.015267472	0.026668247	0	0.036367644	0.046091107	0.018692133	-0.037041272
153886	-0.023256862	0.032924785	0.052551495	0.010526413	-0.020619287	0	0.045120435	0.017391743	0.00609721	0.017699577	0.077961541	0.018349139	0.090151097
0	0.023256862	0	-0.003418607	0.020726131	0.020619287	0.005012542	0	0.033301552	-0.00609721	-0.017699577	-0.033901552	-0.009132484	0.017094433
0	-0.029169594	-0.028749413	-0.031305985	-0.018504187	0.026616257	-0.020202707	-0.014615086	0.009288803	0	0.018018506	0	0.009218855	0
0	0.01611534	0.01611534	0.01611534	0.01611534	0	0	0.03949	0	0	0	0	0	0
576782	0.047913356	0.019251931	0.046855417	-0.010695289	0.064538521	0.01020417	-0.015504167	0.032523192	0.018528302	0	0.01754431	0	-0.017699577
289613	-0.017699577	0.004228336	0.031198371	0.021277398	-0.021053409	0.01513638	0.015504167	-0.008032172	0.008163311	0.018692133	0.008658063	0.019048195	0
309189	0.005034736	0.061064286	0	0	0	0.00950331	0	-0.00809721	0.00809721	0	0	0	0
739026	0.017094433	0.017094433	0.017094433	0.017094433	0	0	0.03949	0	0	0	0	0	0
739026	-0.012121361	-0.006451635	-0.003372684	0.020943174	0	0.009950331	0	-0.024897552	0.00809721	0	0	-0.027651531	-0.018018506
739026	-0.030962226	-0.011937201	-0.030877239	-0.015666117	0	-0.035268139	-0.031748698	-0.025533302	-0.00809721	-0.018018506	-0.017391743	-0.00938974	-0.018349139
903405	-0.0319516	-0.025429784	-0.014035318	-0.015915455	0.021508205	-0.015504187	0	-0.03509132	-0.024692613	-0.018349139	-0.044850586	-0.019048195	-0.037740328
117306	0.019233203	0.008995636	0.02787837	-0.005461943	0	0.040821994	0	0.017699577	0.009288803	0.018349139	0.008658063	0.009061911	0
117306	0.019233203	0.008995636	0.02787837	-0.005461943	0	0.040821994	0	0.017699577	0.009288803	0.018349139	0.008658063	0.009061911	0
572766	0	-0.006659292	-0.003454235	-0.005305052	-0.021053409	0.010152371	0.016260521	0.026202372	0.009230499	-0.018692133	-0.025975486	0	0.018349139
0	-0.019994215	0.031783497	-0.040688577	-0.005333346	0.041672896	0.010050336	-0.016260521	0.017094433	0	0	0	0	0.018018506
150065	0.026481615	0.018172601	0.039092928	0.005333346	0.020202707	0	0.039519406	0	0.018260521	0.016692133	0.025975486	-0.009569451	0.08218573

-0.035932009	0	-0.022728251	0.022728251	-0.01892801	-0.041672696	-0.022780028	-0.009680618	0.073025135	0.035846132	0	-0.023716527	0
0.024097552	0.010152371	0	0	0	0.041672696	-0.011587615	0.002914038	0	0	0	-0.024282693	0.018504187
0.019775152	0.010152371	0.010152371	0.010152371	0.010152371	0.010152371	0.010152371	0.010152371	0.010152371	0.010152371	0.010152371	0.010152371	0.010152371
-0.036613973	-0.031416196	0	-0.033901552	0	0.040821995	-0.009029407	0.036779252	0	0.027597957	0.03509132	0.029530497	0.030771659
-0.012578782	-0.010695289	-0.011048836	0	-0.01892801	0.040821995	0.002285007	0.010193666	0	0.028170877	0	0.007722046	-0.015267472
0	0.021277398	0	0	0.008248228	0.018902627	0.023732888	0.006395636	0	0.028170877	0	0.022814070	-0.031262544
0	0.0104713	0	0	0	0.002171554	0.002171554	0.005449605	0	0.021053409	0.017391743	-0.007272759	0
0.012578782	-0.021053409	0	0.011428696	0	0.018692133	0.010787591	0.022392337	0.013986242	0	0.017094433	0	0.033333642
-0.012578782	-0.010695289	-0.022472856	0	0.024541108	0.018348139	-0.028088436	-0.002660755	0	0.020619287	0.049596941	0.007272759	0
0	0	-0.02299515	0.01429955	-0.01624943	-0.026589467	-0.020952393	-0.034330393	-0.013986242	-0.027597957	-0.03278923	-0.014596799	0.016526302
-0.012578782	0	-0.011560822	-0.034289073	-0.027212564	-0.018048195	-0.022780028	-0.008163311	-0.014338837	-0.035590945	-0.016529302	-0.022305758	-0.016907118
0	-0.0104713	0	0	0.013989844	0	0.009174376	-0.010989122	0	0.007220248	0.016529302	0.007490672	0
-0.025642431	0	-0.01169604	-0.01169604	-0.020819287	0	-0.008872879	-0.014842573	-0.014588799	-0.021819047	0	-0.022842477	-0.017094433
0	0	0.01169604	0.022849082	0.013989844	0.018048195	0.018683451	0.009302393	0.020687537	0.014588799	0.018683451	0	0.017094433
0.019775152	0.010152371	0.010152371	0.010152371	0.010152371	0.010152371	0.010152371	0.010152371	0.010152371	0.010152371	0.010152371	0.010152371	0.010152371
0	-0.043963123	0	0	-0.006734032	-0.019418086	0	-0.001814883	0	0	-0.015504187	0.007494978	-0.017094433
0.012739026	0.011173301	0.011428696	0	0	0.038466281	0.026907453	0.014427662	-0.014184635	0.00732604	0.015504187	0.007380107	0.017094433
0	0.011048836	0.022472856	0.057158414	0.01342302	0.018692133	-0.00221484	0.0168668	0.014184635	0	0.015267472	0.00732604	0.049596941
0.037271395	0	0	-0.022472856	-0.006585959	0.018692133	0.036674107	0.019181059	0.014184635	0	0.015267472	0.007272759	-0.016260521
0.011976191	-0.010929071	0	-0.011428696	0	0.036367644	0	-0.039431632	0.014184635	0.007272759	0	0	-0.033333642
-0.011976191	-0.022223137	0.021978907	0	-0.006644543	0.017699577	0.002185793	0.027942332	0.013986242	0.035590945	0.045120435	-0.014493007	0.049596941
0.011976191	-0.011299555	0	-0.011560822	-0.020202707	0	-0.008771986	0.013245227	0	-0.021202208	0	0.014493007	0.016000341
0	0.033322592	0.010810916	0	0.006775607	0	0.008771986	0.015665117	0	0	0	0.021363124	0
0	-0.021506205	0	0.011560822	0.008826986	0	0.006644543	0.003336697	-0.013986242	0	0	0	-0.016260521
0	0.021506205	0.010810916	-0.011560822	0.033447934	0.017391743	0	0.025273676	0	0.007117468	0.028170877	-0.007168489	0.016260521
0.049520016	-0.010695289	0.010695289	0.011560822	-0.013245227	0	0.006600684	-0.008643096	0	-0.007117468	0	0.014286957	0
0	-0.010810916	-0.010695289	-0.011560822	-0.013245227	0	0.013245227	-0.014868911	0	0.007117468	0	-0.007117468	0
0.02299515	0	0	0	0	0.013245227	0.013245227	0.006600684	0.006600684	0.006600684	0.006600684	0.006600684	0.006600684

22372	0	-0.059086916	-0.026907453	-0.031748698	-0.014815086	-0.020408872	0	-0.011428696	0.016949558	-0.016280521	-0.024692613	0	0
34431	0	0.017241806	0.035718083	0.016000341	0.007434978	0.0102665	0.014388737	0.005730575	0.00336928	0.032260882	0.024692613	0.052643733	0
38669	0	0.020906885	0.025975486	0.041672696	0.065477929	0	0	0.022100347	0.055350095	0	0.024391453	-0.00836825	-0.017094433
38869	-0.006920443	-0.033901552	-0.017241806	0	0.020906885	0.020000667	-0.014388737	-0.033336642	-0.015504187	0	-0.012121361	-0.008438869	0.017094433
38869	0.020619287	0	0.017241806	0.00508907	0.013894844	-0.009950331	0	-0.005665738	0.045808638	0.044451763	0.024097552	0.041499731	0.016807118
38869	0.033447934	0	0	0.083903402	0.030702707	0.009950331	-0.014588795	-0.011742686	0.022141128	-0.026413885	0	-0.01639881	0.033901552
43177	-0.013072082	0.025317808	0.008583744	-0.028710106	0	-0.00939974	0.028573372	0.039665256	-0.021353124	0.029852963	0.01242252	0.024897552	0.017094433
43177	0	-0.016807118	-0.008583744	0	-0.013513719	-0.009478744	0.027779564	-0.011173301	-0.014493007	-0.029852963	0	0	0.016807118
43177	0	-0.00851089	-0.017391743	0	0.020202707	-0.028987537	-0.013793322	-0.011299555	-0.007328604	0	-0.01242252	0	-0.016807118
92613	-0.02684725	-0.008658063	-0.00881063	-0.028987637	-0.013805662	-0.028852963	0.014184635	-0.022988518	-0.014815086	-0.015267472	-0.01242252	-0.008230499	0
29302	0	0	0.00881063	0	0.006925965	-0.010152371	0.013886242	0.005797118	0.036634133	0	0.01242252	0	0
97552	-0.020619287	0	0	-0.009852296	-0.006925965	0	0	-0.011628038	0.007188489	-0.031252544	0	-0.008298803	-0.034486176
97552	0.005620743	0.008658063	0.00881063	0.009950331	0.03050552	0.030505036	0.011928038	0.011928038	-0.011928038	0	0	0.032789823	0.017391743
92613	-0.013889112	-0.017241806	-0.017857617	0.019418066	0.019293203	-0.010152371	-0.013886242	0.005797118	0	0	0	-0.01639881	0.017094433
92613	0.020761991	0	0.00896867	0	-0.012870888	0.010152371	0	0.070316498	0	0	0.024692613	0.032523192	-0.017094433
92613	0.033673215	0.017241806	0.026433257	0.019048195	0.00843088	0	0.013886242	0.011494379	0.036387644	0	0	0.023716527	0.082691716
97552	-0.005644543	0	0.008658063	0.009950331	-0.00643085	0.010050336	0.040821995	-0.011494378	-0.019078808	0.016746357	0	-0.016746357	-0.016000341
48698	0	-0.025752496	-0.008230499	0	0.012820888	0.010152371	-0.01342302	0	0.047346121	0.046520016	0	0.023167059	-0.033336642
304187	0.03257617	0	0.01639381	0.009302393	0.02515856	-0.010152371	0	0	0.017192401	0	0	0.022642477	0
120435	0.019048195	0.008658063	0.032002731	0.062800801	0.042558614	-0.020819287	0	-0.017192401	-0.030771659	-0.030771659	0	0	0
22604	-0.006309188	0.008363744	0	0.017241806	0	-0.021659199	0	0.011428696	0	0.03071659	0	-0.007430872	0.016807118
331798	-0.012799026	0	0	-0.008658063	0.005865119	0	-0.01342302	0	0	0.015504187	-0.012121361	-0.023347384	-0.032789823
305758	0.025317808	0.017094433	0	0.034191365	0.017391743	0	0	-0.005602256	-0.005899722	0	0.012121361	0.031010237	0
367537	0.012500763	0.016529302	0	0.041158072	-0.011560822	0.020834087	0	0	0.034867259	0	0	0	0
367537	0.012500763	0.016529302	0	0.016000341	0.011560822	0.020408872	0	0	0.039226713	0.015267472	0.011976184	0.007862873	0

167472	0	0.012987196	0	0.018018506	0	0.008163311	0.009478744	0.036367644	0.011560822	0.035506688	0.001350439	-0.005571045	0
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17077	-0.023276188	0.027028272	0.027028272	0.018513018	0.008659744	0.008659744	0	0.018692133	0.01213181	0.018692133	0	0	0.018692133
102623	0.037740328	-0.013245227	0	0.0893451	-0.032260992	0.025533302	0.036367644	0.00938974	0	-0.034238073	0.008816659	0	0.021622464
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79504	0	0.005683988	0.013605652	0.018607118	-0.048780184	-0.00573368	-0.00898667	-0.00938974	0	-0.048982755	0.003333382	0.043802623	0.03733767
0	0.02755982	0.013605652	0.013605652	0.018607118	0.018607118	0.018607118	0.013605652	0.00938974	0	0.018607118	0	0	0.013605652
167194	0.008889947	0.039220713	0.013605652	0.041158072	0.016260521	0.060624822	0.028907453	-0.009559451	-0.012270093	0.012739026	0.050365712	-0.005747142	0.036179657
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49366	0.027651531	0.045463274	0.014181635	0.05975408	0.018607118	0.027651531	0.02449102	0.008652296	0.022728931	0.011976191	0.050365712	-0.002694355	0.003391849
0	0.02755982	0.013605652	0.013605652	0.018607118	0.018607118	0.018607118	0.013605652	0.00938974	0	0.018607118	0	0	0.013605652
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101302	0.008658063	0.005249356	0.013793322	0.025533302	0	-0.04405999	0.015625318	0	-0.01169804	0	-0.021378488	0.023189445	0.005012542
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167644	-0.018949558	0.032625227	0	0	0	0.018018506	-0.015504187	0.019608471	0.011299555	0.0613688946	-0.020107123	0.005730875	-0.012270093
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0	0.019934215	0.04202299	0.016807118	0.0102565	0	0	-0.009950331	0.015504187	0	0.00808721	0.019418086	0.025975486	0	0
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74786	0.019934215	0.04202299	0.016807118	0.0102565	0	0	0.009950331	0.015504187	0	0.00808721	0.019418086	0.025975486	0	0
514681	0.013072082	0.003278901	0.008920443	0.0104713	0	0.009852296	0	0	0	0.015625318	0.018692133	0	0	0.018349139
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23681	-0.012320688	0.01611082	0.013513719	0	-0.021506206	0.005012542	0	0	0.008230499	0	0.033333642	0.008563744	0	0.017699577
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348338	-0.013245227	-0.023069074	0.003384088	-0.01030837	0	0.038838833	-0.0281852863	-0.0281852863	-0.016128382	-0.007547206	0	0.032260862	0.008563744	-0.017391743
42314	0.019934215	0.04202299	0.016807118	0.0102565	0	0.009950331	0.015504187	0.015504187	0	0.00808721	0.019418086	0.025975486	0	0
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370167	0.018349139	-0.00849262	0.015552413	0.028437835	0.015684781	0	-0.015267472	0.044124805	0.044124805	0.014706147	-0.016807118	0.007843177	-0.032789823	0.050430854
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334466	0.006909169	0.040302376	0.015174798	-0.009302393	0	0.018692133	0.014815066	0	0	0.014588782	0.017094433	0.02181802	0.025317808	0.032260862
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34736	0	0.029558802	0	-0.016807118	0	0.01342302	-0.016807118	0.016807118	0.016529302	0.013072082	0	0.011428696	0.009950331
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152207	0	-0.028437935	0	0	-0.007017573	-0.007017573	0.017094433	0.009299803	0.009299803	0.038714512	0.009302393	-0.011904903	0.009661911
289555	0.095655033	0.008661011	0.01342302	0.007017573	0.007017573	0.007017573	0	-0.016667052	-0.016667052	0.037271395	0.018248139	0.052460183	-0.008661911
271721	0.017241806	-0.020000667	-0.020619287	0	0.052643733	0.052643733	-0.033901552	0.008298803	0.008298803	0.024692613	0.009132484	0	0.009661911
605652	0.016949558	0	0.020619287	0.005602256	-0.025975486	-0.025975486	0.129211731	-0.008298803	-0.008298803	0.024097552	0.026907453	0	-0.009661911
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779587	0	-0.05072335	-0.059288603	-0.011363753	0.013513719	0.013513719	-0.048099219	-0.016667052	-0.016667052	-0.01217133	0.017857617	-0.005665733	0
779584	-0.025975486	-0.0104713	-0.020619287	-0.005797118	0.01342302	-0.01342302	0.029852963	0	0	-0.012270093	-0.018182319	-0.016997576	-0.029558802
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408474	-0.01754431	-0.010582109	0	-0.012048339	-0.076035186	-0.068872879	-0.028987537	-0.008298803	-0.008298803	-0.012578782	0	-0.029500664	0
067167	-0.008888947	-0.010695289	0	-0.005970167	-0.028975486	-0.028975486	0.015267472	0.016529302	0.016529302	0.012578782	0.00907453	0.00907453	0.010050336
605529	0	-0.021739987	0.020202707	-0.006006024	0	0	0.029852963	0	0	0.038221213	0	0.02339288	0
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968669	-0.00881063	-0.010810916	0.020202707	0	-0.012739026	-0.012739026	0	-0.00969721	-0.00969721	0.012578782	0	-0.008200667	0
0	0	0	0	0.011976191	0.012739026	0.012739026	0.013072082	0.085655445	0.085655445	-0.038714512	0.071176278	0.039220713	0.019231362
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968669	-0.008858063	-0.010582109	0	-0.005698021	0	-0.013072082	0.013793322	0.274129106	0.274129106	-0.025642431	-0.015625318	0	-0.019418086
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0	0.0851083	0	0.016260521	0.120527486	0.02515866	0.013793322	0.013793322	0.008920443	0.008920443	0.037740325	0.024091552	0.020834037	-0.009561911
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90672	-0.020202707	-0.009132484	-0.016000341	-0.003081687	-0.002176279	-0.015267472	-0.008583744	-0.829990394
25136	0	0	0	0.018349139	0.010934342	-0.015504187	0.017084433	0.353437194
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152208	0	0	0	-0.01754431	0.012578762	0	0.014286957	0	0.010695289	-0.026317508	0.001214329	0.01754431	0.022999516
506205	0.016949558	0	-0.024097552	0	0.012270093	0.007604599	0.081678031	-0.028170677	-0.010695289	0.019423202	-0.009840178	0	0.011173301
506206	-0.008438869	0.00516797	0	0.017699577	0.035992009	0	-0.0332226648	-0.019231362	0	-0.019423202	-0.002475249	-0.00294551	0.021978907
506207	0.016607118	0.0051414	0.012121361	-0.00881063	0	-0.007604599	0.026668247	-0.008758175	0	0.026668247	-0.002481391	-0.002954212	-0.010929071
506208	0	-0.01030937	0	0	0.01169804	-0.007604599	0.023258285	0	0	0.013245227	0.006550043	0	-0.011848898
248836	-0.00838825	-0.031416196	-0.012121361	-0.017857617	0.044951388	-0.040168042	-0.005970167	0	-0.010695289	-0.027398974	0.008123718	-0.01464155	0
248837	0.00838825	-0.010695289	0.024097552	0	0.021739987	0.032260862	-0.008008024	0	0.010695289	0.013793322	-0.001221747	0	-0.011299555
378907	0	-0.005390849	0	0.035401927	-0.010810918	-0.016000341	-0.018237588	-0.009852296	-0.010695289	0	0.001221747	0.00294551	0
451763	-0.018807118	0.010752792	-0.01978191	0	-0.024152417	-0.0080912	-0.018578988	-0.009950331	0.052367888	0.013805652	-0.001221747	0	-0.011428686
451764	0	0	0	0	0	0	0	0	0	0	0	0	0
739987	-0.00838825	0.010526413	0.011976191	0	0.030459207	0	0.065240522	0.009852296	0.087861356	0.013245227	0.007281586	0	0.011560822
739988	0	-0.010526413	0.03509132	0.051293284	0.039220713	0	0.005249356	0	0.072103284	0.013072082	-0.0121666	0	-0.023256862
739989	-0.008438869	0.010526413	0.01142696	0.06298803	0.055099497	0.00780318	0.070736551	0	0	0	0.068684791	-0.002954212	-0.011834458
739990	0.01499731	0.010416761	-0.01142696	0.016667052	0.018868484	0	0.03980625	0	0.024692613	0.013245227	0.009019227	0.00588237	0.048202102
739991	-0.01638381	-0.00516797	0	0.02449102	-0.018868484	0	-0.029705154	-0.009852296	0	0	-0.006758782	0.00292826	0.01169604
739992	-0.008298803	-0.00516797	-0.011560822	0.03748688	0.02897537	0.016000341	0.030814636	0	0.047628016	0.038745112	-0.012507289	0.00583092	0.011560822
739993	0	0	0	0	0	0	0	0	0	0	0	0	0
739994	0	0.021622464	-0.011834458	0.00798817	0.09237332	0	0.063851472	0.009950331	0	0	-0.004587164	-0.002954212	0.024097552
739995	0	0	-0.011976191	-0.016000341	-0.040005335	-0.008438869	-0.010362787	0	-0.032523192	-0.012903405	0	0.011764842	0
739996	0.023105921	0.015915455	0.011976191	0	0.030153038	-0.00851069	0.005194817	-0.009950331	-0.033616611	0.012903405	0	0.00291971	0.011834458
739997	0.00230499	0	0	0	0.00153038	0	0.010362787	0	0	0.025975492	0.006730875	-0.06884797	0.023256862
739998	0	0	0	0	0	0	0	0	0	0	0	0	0
739999	0	0.020943174	0.023810549	0	0.040821955	0	0.031416196	-0.010050336	0.008438869	0.087011377	0	0.017391743	0.045462374
740000	0	0	0	0	0	0	0	0	0	0	0	0	0
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740002	-0.016657052	0.00516797	0	-0.00809721	0.009216999	0.008438869	0.008438869	0	0	0.012121361	-0.00224467	0.025105921	0.011173301

93157	0	-0.018731037	-0.014947961	-0.018692133	-0.005361943	0	0.029413685	0	-0.022472856	0	-0.013698844	-0.008163311	0
65119	-0.006269813	0.023972436	0.023810849	0.00938974	0	0.01868404	0.058352937	-0.00732604	0	0.018579302	0.013098144	-0.008270493	0
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0	0.006349228	0.006269813	0.020144586	0.027150989	-0.015504187	0.009216655	0	-0.007272759	0.015151805	0	-0.013598844	-0.008163311	0.054067221
99577	0.006309169	-0.004175871	0.014144507	0	0.015504187	-0.018519048	-0.028170877	0.014493007	0.01492565	0	-0.013889112	0	0.028975486
118506	0.018808332	-0.01055976	-0.0259284	0.008888947	0.005115101	-0.028170877	0.013793322	0.007272759	0	0.016529302	-0.020519287	0	0
0	0.012345836	0.001061008	-0.00291121	-0.008888947	0.00508907	0.009478744	0.013605652	0.021506205	-0.015037877	-0.016529302	-0.006988869	0.016260521	-0.012739026
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62068	0.00619197	-0.005327863	-0.00388519	-0.008888947	0.005115101	0.028437035	-0.013806632	0	0	0.017094433	0	0.031262544	0
2205	0	0	0	0	0	0	0	0	0	0	0	0	0
323055	0	-0.001059984	-0.00881063	-0.018018506	-0.01534557	0.009302393	-0.013986242	-0.020761981	0.007434978	0	0	-0.023347364	-0.025317808
319197	-0.012345836	-0.002123143	-0.020865138	0.009049836	0	0	-0.014184635	0.013889112	0.007380107	0	-0.021053409	0	-0.012903405
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178907	0.018349139	0	0.019048195	0.010526413	0.012903405	-0.01349109	0.014388737	-0.011494378	0.040273999	0	0.005361943	0.078349437	0
68489	0	0.011560822	0	0	0	0	0	0	0	0	0	0	0
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358777	0.037179693	0.028887637	0.011560822	0.055059777	0.033944725	0.011560822	-0.024097552	0.011111225	0.040409559	0.018349139	0.012578782	-0.033901552	0.024882813

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24622	-0.041156072	0.092238998	-0.040624522	-0.049832374	0.13788885	0.133531393	-0.058495207	0.058495207	-0.07290877	0.098899142	0.022952183	-0.013100824	0.04489532
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40522	0.034191365	0.039609138	0.063851472	0.090971778	0.062520357	0.038221213	0.041672596	0.01242252	0.044451763	0	0.018821754	0.002280503	0.020819287
43625	0	-0.009756175	-0.010362787	0.035590945	0.020000667	0.060624622	0.020202707	0.094187215	0.025752496	-0.025975486	0.038503312	-0.013761685	-0.01542447
52296	0	0.019418085	0	0	-0.009660331	0	0.024892613	0.174802724	0.008438865	0.013072092	0.037075809	0	0.025576842
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90184	-0.01680718	0.046520016	-0.051826688	-0.051299294	-0.040521998	-0.05441281	-0.075965907	-0.042200352	-0.042200352	-0.012903405	-0.05059777	0.054608303	-0.046048680
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02827	0	0.045256592	0.031090587	0.054394072	0	0	0.0104713	0.036039936	0	0.049392755	0.017825784	0.004618946	0.015504187
150331	0.008230489	0.043296806	0.010152371	0.017493157	0.020834087	0.046520016	0.025708357	-0.017857617	0.049598941	0.023810649	0.039430742	0.013730193	0.050010421
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786823	0.016949558	0.056058467	0.0169286	0	0	0	0	0	0.007848237	0.034685359	0.004482301	0.018245348	0.005037794
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85753	0.031748698	0	0.031748698	0.02614528	0.030771859	0.038318864	0.029852963	0.089948237	0.039220713	0.014925655	0.017094433	0.026248226
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0.020408872	0	0.005866119	0.010695289	0	0.022728251	-0.01169904	0.009534359	0.017391743	0.017391743	-0.016504187	0.030962226	0.011834458
0.010050336	0.035506688	0.00583092	0.051825068	0.015626318	0	0.032410244	0.033025255	-0.017391743	0	0.060624622	0.012121361	0
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0.010162971	-0.012121361	0	0	0.008153371	0.022472856	0.009345652	0.005048894	0	-0.009361063	0	0	0

30839	0.013605652	-0.014815086	0.033522692	0.016949558	0.01169604	0	0	0	0	-0.037740328	-0.06031979	0	
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30770	0.00939316	0.00939316	0.00939316	0.00939316	0.00939316	0.00939316	0.00939316	0.00939316	0.00939316	0.00939316	0.00939316	0.00939316	
21927	-0.075793838	-0.016280521	-0.050010421	0	-0.027398974	-0.039220713	-0.054958884	0	-0.076540077	0	-0.026317308	-0.105981441	-0.038151766
37617	0	0	0.012739026	0.018692133	0.009218655	0.026317308	-0.028655256	0.005730675	-0.011428698	0	0.013245227	0.07188723	0
32727	0.075793839	0.016280521	0.061368946	0.099892266	-0.070628053	0.026642431	-0.034288073	0.016997576	0.077386664	0.018902827	0.051293294	0.124823065	0.054067221
38803	-0.02141128	0	0.024087552	-0.025533302	0.016349538	-0.012739026	-0.005602256	0.089963405	-0.043485112	0.018418096	-0.038221213	0.01542447	0.28868247
38815	0.02873888	0.016280521	0.016280521	0.016280521	0.016280521	0.016280521	0.016280521	0.016280521	0.016280521	0.016280521	0.016280521	0.016280521	0.016280521
38667	0.014388737	0	0.023810849	0.032523192	0.032260862	0.012270093	0.011173301	0.035809453	0.022472856	0.019418086	0.025975486	0.030771859	0.010695289
36724	0.028170877	0.048009219	0.089948237	0.031498667	0.119546151	0.012121361	0.038151766	0.029705154	0.074901308	0.037740328	0.025317808	0.082370997	0.041672696
0	0.020619287	0	0.010695289	0	0	-0.012121361	0.015915455	-0.024692613	0	-0.018692133	0.024692613	0.011580822	0.092523369
47208	0.013513719	0	0.021053409	0.015384919	0.046119748	0.012270093	0.020834087	0	0.0102655	0.018692133	-0.024692613	0.03991652	0
44515	-0.025975486	-0.030771659	-0.041872896	-0.045809536	-0.040821985	-0.048202102	-0.108074222	-0.050010421	-0.040006335	-0.057158414	0	-0.08288766	-0.047628049
71659	0.019544596	0	0.021053409	0.00778214	0.020619287	0.024391453	0.016172859	0.015267472	0.020202707	0.019418086	0	0.071458964	0.024097552
71659	0	0.015504187	-0.021053409	-0.023530497	-0.027587557	-0.024391453	-0.02710193	-0.015267472	-0.040821985	0	-0.012270093	-0.03509132	-0.024097552
78214	0.012887186	0.015267472	0	0.016349538	0	0.01242252	0.010928071	0.01020647	0.020519287	0	0.01242252	0.046520016	0
98799	-0.006288813	-0.015037877	0	0	-0.006734032	0	-0.01089289	-0.005083302	0.009852296	-0.019418086	-0.011834458	0	0
32804	0.012500163	0	0.079249372	0.022614678	-0.006779887	0.024097552	-0.005980849	0.010101096	0.038466281	0	-0.024097552	0.011173301	0
63704	0	0.073025185	-0.028987537	0.01492565	0.006779887	0.023530497	0.052843733	0.187334099	0	0.038466281	0.047628049	0.064538521	0.023530497
68869	0.00618197	0	0	0.007380707	-0.027398974	0	0.005115101	0	0.028710108	0	-0.023530497	0.020619287	0
68659	0.00939316	0.00939316	0.00939316	0.00939316	0.00939316	0.00939316	0.00939316	0.00939316	0.00939316	0.00939316	0.00939316	0.00939316	0.00939316
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72172	0.01892801	-0.015037877	0.041672696	0.022642477	0.014184635	0.012270093	0.021506205	0.042559614	0.030771659	0	0	0.078252197	0
73372	-0.025317808	0.015037877	-0.020619287	-0.015037877	-0.014184635	-0.037271895	-0.016086138	-0.021053409	-0.030771659	-0.019418086	0	0	-0.047628049
59814	0.025317808	0.048009219	0.030771659	0.028852863	0.021902708	0.012519782	0.010752792	0.021053409	0.01038297	0.019418086	0	0.010695289	0.024097552
20443	-0.018809332	0	0.020202707	0	0.007117468	0.024097552	0	0.125163143	0.0102565	0	-0.011976191	0.032088315	0
78531	0.018809332	0.014598798	0.029558802	0.028778965	0.027973852	-0.011976191	0	-0.019802627	0	0.019418086	0	0	0.023530497
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0	0	-0.029413885	-0.009850331	0.007272759	0	0	0	0	0	0.018802627	0.01242252	-0.021738987	-0.022472655
5190	0.0056975	0.0056975	0.0056975	0.0056975	0.0056975	0.0056975	0.0056975	0.0056975	0.0056975	0.0056975	0.0056975	0.0056975	0.0056975

329071	-0.0104713	0.01492565	0.036172574	0.005305052	-0.006116227	0.009302393	0	0.011560822	0.045315196	-0.010362787	0.039530839	-0.054809236	0
349836	-0.032088315	-0.007434978	0.040372455	0.009216655	-0.037604395	0.023530497	-0.005763705	0.0063309199	-0.021053409	0.016364919	-0.014184635	0	0
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172856	0.021277398	0.046520016	0.052842481	0.039609138	0.028170877	0.015666117	0	0.035718083	0.019802627	0.03509132	0.007380107	0.035718083	0.016000341
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99823	0.039220713	0.011834458	0.013513719	0.046091107	0.006825665	0.015113638	0	0.107053996	-0.013072082	0	-0.007220248	-0.01169604	0
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17385	-0.082238098	-0.038714512	-0.034367644	-0.046091107	-0.040273999	-0.020408872	-0.021978907	-0.031581572	-0.033447934	-0.051293284	-0.014815086	-0.085522173	-0.045809536
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322596	0.009852296	0.006825965	-0.009448889	0	0.007272759	-0.009661911	0.020819287	-0.005012542	-0.00643089	0.060261835	0.007168489	0.019169916	0.015748857
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23137	0.034742946	0.009478744	-0.00783214	-0.028982983	0	-0.009755175	0	0.014706147	-0.014815086	0.009478744	-0.080643738	-0.043485112
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73301	0.022472856	-0.009216655	0.015748357	0.04405999	0.063178902	0.046520016	0.046520016	0.014285957	0	0.036039936	0.043083586	0.060624622
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08872	0	0.018519048	0.006672879	0	0.057156414	0.033901552	0.028413885	0.035508688	0	0.03333842	-0.010869672	-0.017698577
52371	0.011173301	0	0	0.006439889	0.018346139	0.016525302	0	0.017297497	0.014815086	0.008153371	0.018089138	-0.018018506
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135276	0.006888888	0.022272858	0.011288565	0.022048137	0.008970772	-0.018692133	-0.084557388	0.076498213
27286	0.01673355	0.01733555	0.01733555	0.003189795	0.008587491	0.019048195	0.008272617	0.1513589
244059	0	-0.041031397	-0.034685558	0	-0.037271395	-0.049271049	-0.010050336	-2.635426083
136078	0.020067563	0.035993603	0.01169604	0.009539023	0.025001302	0.049271049	0.029852963	1.667821075
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181045	0	-0.00516797	0.023530497	0.003189575	0.008984088	0	0.018692133	1.008386827
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92813	0.01169604	-0.006020488	0.003350087	-0.005305052	0.015504187	0.019808471	0	-0.016807118	-0.013072082	0	0	-0.00643089	0.016000341
09718	-0.047623040	-0.07441218	0.027120306	-0.06533346	0	0	-0.048929015	-0.022868138	0.068608984	0	0	-0.03614526	-0.016000341
84711	0.023258862	0.001311476	0.00668998	0.005333346	-0.015504187	0.047856021	-0.01534557	0.011173301	0.006472515	-0.020408872	0.014285957	0.1185186	0
29302	0.033901552	0.051096663	0	0.036567586	0.039318964	0.09785679	0	0.011049836	-0.012987196	0.0102565	0.007067167	0	0.015748357
0	0	0.006644543	0.006644543	0.006644543	0.007498672	0.043298806	-0.00519797	-0.016620881	0.006557401	0	0	0.023258862	0
39381	0.011299555	0.011545991	0.032157112	0.010416761	0	-0.008888947	0	-0.017595762	0.025479085	0.0102565	0	0	0.015748357
08721	-0.011299555	-0.021922219	-0.019169916	0	0.022472856	-0.039367644	0.083381609	-0.005934736	0.006299813	0	-0.028778965	0.022347299	0
08721	-0.011424895	-0.0785344	0.012987196	0.015866117	0.007950107	0.028170877	0.005019542	-0.011976191	0.030771659	-0.020819297	0	-0.01111225	0
0	-0.023258862	-0.022980192	-0.006514681	-0.015594731	0	0.008888947	-0.032088315	-0.017291497	0.019544596	0	-0.007067167	-0.005633318	-0.015748357
30499	-0.011834458	-0.02333668	-0.012384059	-0.012384059	0.014708147	-0.018868484	0	0.009006024	-0.011834458	0.010050336	0	0.02139119	0.015504187
49102	0.011834458	0.039467772	0.027651531	0.006479486	0.007272759	0.027908766	0.143100844	-0.006153986	-0.017910927	0.010050336	0.022405758	0.009305052	-0.031252544
0	0.01682007	0.01022222	0.01022222	0.01022222	0.01022222	0.01022222	0.01022222	0.01022222	0.01022222	0.01022222	0	0.01022222	0.01022222
29302	-0.024097552	-0.002680967	0.009245058	-0.010989122	0	-0.00939974	-0.038466281	0	-0.018127385	0.039220713	0.007380107	-0.01030937	0
0	0.024097552	0.017299167	0.033185549	0.027249642	-0.0149888737	0.018692133	0.075507553	-0.006268613	0.024097552	-0.039220713	-0.007380107	0	0.045609536
29302	0.011834458	0.019595663	0.017647517	0.005361943	-0.007272759	0	-0.018349139	-0.0319516	-0.018018506	-0.010050336	0	-0.010416761	-0.015037677
0	0.039468558	-0.010403215	0.00291121	0.010636396	-0.014708147	-0.026178877	-0.018692133	-0.013072082	0	0.020408872	0	-0.028626754	0
63311	-0.011428896	-0.006557401	-0.00875918	-0.005305052	-0.022472856	0.018868484	0.072759354	-0.019934215	0	0	0.007380107	-0.005390849	0
0	-0.011560822	-0.017253248	-0.017751945	-0.010695289	0.007547206	-0.018868484	-0.091807549	-0.020339684	0.012048339	0	0	0.005390849	0
0	0.011560822	0.014616701	0.017751945	-0.010810916	0.01492565	0.046520016	0.019048195	0.03873215	0.005970167	0	0	0.010695289	0
0	0	0.019595663	0	0	-0.01492565	0.025907453	0.038466281	0.013158085	0	0	0	0.01030937	0
82972	-0.775338895	-0.272364843	0.066691374	-0.058053581	-0.610932409	0.045256592	0.510225524	0.194158014	0.2038559354	-0.16879213	0.045120435	0.459532329	-0.029862953
64705	-0.003141048	-0.001102692	0.000270006	-0.000235076	-0.002713897	0.000183225	-0.00206812	0.000786057	0.000825842	-0.000724207	0.000182674	0.001860455	-0.000120862
96508	0.727328112	-0.754378886	0.75876175	0.692591255	0.433857916	0.476490899	0.586507809	0.641277227	0.649496846	0.551573521	0.886300688	0.555385594	0.668667117

0	0.021053406	0.008734082	-0.008995857	0.038489281	-0.008632172	0	0	-0.016260521	0	0	0.02895561	0.019802627
0	0.031506274	0.027253802	0.046183137	0.024495102	0.024495102	0	0	0.024541019	0	0	0.00631158	0.00631158
04713	0.032088315	0.027150989	0	-0.038486281	0.111225936	-0.008298803	-0.015267472	0	-0.016529302	0.016529302	0.022223137	0
04713	-0.010582109	0	-0.027212584	-0.009852296	-0.091807549	-0.018807118	-0.015504187	-0.02515856	-0.068992871	-0.024897552	-0.039220713	0.020619287
0	0	0	0	0.009852296	-0.019418068	-0.008510669	0.015504187	0.006349228	0.017689577	-0.009438869	0.005698021	0
62108	-0.010885289	0	0.008872879	0.028852883	0	-0.008583744	-0.018504187	-0.019168916	0.017391743	0	0.005685738	-0.020610287
62108	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923
62787	0	0.026907453	0.013698844	0	-0.019418066	0.033336642	0	0.00643089	0.033336642	0.00838825	0.022347299	0.020619287
16196	0.032789823	0	0	0.019802627	-0.019802627	0.008163311	-0.015748357	0.006389798	-0.016529302	0	0.021858794	0.020202707
35289	0.031748698	0.082893747	0.013513719	0.009756175	0.018802827	-0.047628048	0.031252544	0.012668397	-0.033901552	-0.008298803	-0.016088138	0.019802627
95289	0.020519287	0	0.006660888	0	0	0	0	-0.025479065	0.017391743	0.01657052	0	0.05715647
95289	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923
110916	0.010152371	0.007722046	-0.008734032	-0.009756175	0	0	0.018037877	0.006349228	-0.017391743	0	-0.010418761	-0.038486281
0	0	0.074107972	0.006734032	-0.009852296	0	0.00790518	0.014815086	-0.019168916	0.034486176	0	0.015884731	0.038486281
0	-0.020408872	-0.007168489	0.019934215	0	-0.019418086	0.007843177	0	0.037979248	-0.017094433	-0.008298803	0	-0.019048195
0	-0.010382787	-0.007168489	-0.013245227	0.008850331	0.019418086	-0.015748357	-0.048120435	-0.02515856	0	-0.008298803	-0.016584731	0.019048195
0	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923
106205	-0.020408872	-0.052842481	0	0	-0.019048195	-0.00790518	0.210721031	-0.006308169	0.017094433	-0.01807118	0.034742848	0.018992133
0	0	0.022989518	-0.01342302	-0.009950331	0.018048195	-0.00796917	-0.094310679	0	0	0.008438869	0.047628049	-0.018992133
129071	-0.04211486	0.007547206	-0.008779867	-0.010050336	-0.018048195	-0.024292693	0.032435276	0.061386946	0.016807118	0	-0.042761859	-0.019048195
129071	0.082387886	0.007547206	0.013513719	0.087011377	0	0.024292693	0.061825066	0.023630487	0.09631018	0	0.004842824	0
0	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923	0.008778923
129071	-0.010152371	-0.031748698	0.008689888	-0.009132484	-0.018048195	0.00796917	-0.021053409	0	0	0.008510669	-0.023311078	-0.019418086
39987	0.010152371	0.054915758	0	0	0	0.023330497	0.021053409	0.094557388	0.016907118	0.027908788	0.004555817	-0.019802627
0	0	-0.023167059	0	0.009132484	0.019048195	-0.00778214	0.040821995	-0.022858138	-0.013606652	0	0.018182319	0
39987	0	0	0	-0.009132484	-0.018048195	0.00778214	-0.020202707	-0.02399288	-0.041844189	0	-0.032038354	-0.020202707
0	-0.010152371	0.015504187	0.013245227	-0.009216655	-0.019418086	-0.00778214	-0.0102565	0	-0.028887537	-0.016807118	0.018433702	0.020202707
0	0.010152371	-0.015504187	-0.013245227	-0.009302393	0.019418086	-0.015748357	0	0.057487091	0.043172172	0.008438869	0.004555817	0.058268908
129071	0	0.023167059	0.006644543	0.054558984	0.018048195	0.00790518	0	-0.016801811	0.041385216	0	0	0
0	-0.020408872	0	0	0.01769431	-0.018048195	0	0	0.027388974	0	0	0.040394457	0
57728	-0.3305836	0.331902543	-0.586502838	-0.802175402	-0.503102579	-0.331862846	-0.500483837	0.328298908	-0.18595197	-0.085003893	0.191974888	-0.888381044
152056	-0.001388315	0.001343735	-0.002779363	-0.002437957	-0.002038887	-0.001343978	-0.002026165	0.00132104	-0.000872005	-0.000263415	0.000777227	0.003596688
11823	0.70048978	0.484879177	0.589251974	0.721918279	0.638167177	0.65889866	0.597785077	0.428701587	0.389147288	0.737990435	0.811270881	0.52112888

112941	0	-0.016260521	-0.012270093	0.018750549	-0.005774799	0	-0.005012542	-0.15121839
05051	0.006544543	-0.005479455	-0.025001302	0	0.019493798	0	-0.025445555	0.491204715
02937	-0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
98021	0	0.005685738	0.025317809	0.036387844	0.010050338	0	0.005305052	1.014987027
95558	0.0133333531	-0.022858138	-0.012576782	0.040821995	-0.016128382	-0.020408672	-0.026811257	-1.445163227
92687	-0.0065844543	-0.005797118	0.012576782	-0.005730675	0.004056801	-0.010362787	0.005420067	0.427592109
04044	0.027028572	0.000000000	0.012576782	0.025553332	0.005013225	0	-0.010665672	-1.055988755
00012	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
80628	-0.020781991	0.011560822	0.059898142	0.030857988	0.024897552	0.010582108	0.016349138	0.444508103
33458	0.027587957	-0.005763705	0.078252197	0.005509656	-0.043986148	-0.010582109	0.005390849	0.460504769
93157	-0.006825965	0.017192401	0.021277398	-0.022223137	0.060246668	0.021053409	0.016000341	1.501152982
92491	0.008925985	0	0	-0.012495555	0.018900763	0	-0.043249984	0.128166875
00000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
883123	0.013898844	-0.005797118	-0.021277398	0.005571045	0.003952574	0	-0.016713481	-0.479981484
91121	-0.006825965	0	0.010695289	-0.005571045	0.003937013	0.020834087	0.016713481	0.952102937
94797	-0.006872879	0	-0.010695289	-0.005602256	-0.001966689	0	0.010889122	-0.203194004
98592	0.006939745	-0.01189801	-0.02139987	-0.014144597	0.025923885	-0.010362787	-0.005479455	-0.538064862
00000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
375918	-0.013898844	0	-0.010929071	-0.017192401	-0.01011131	0.032789823	0	0.260689222
36552	-0.007017573	0.00583092	0	0.017192401	0.004056801	-0.032789823	-0.011049636	-0.213825263
310927	0.007017573	-0.00583092	-0.022223137	-0.005698021	-0.026688247	0.032789823	-0.028170877	-0.270211143
007521	0	0	0.022223137	-0.017493798	0.060655398	0.016000341	0.005730675	1.485755861
00000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
0	-0.007117468	-0.018018508	0.021739987	-0.019310945	-0.013898242	-0.016807118	-0.023530497	-0.2609159
0	0.014184635	0.012048339	0.021277398	0.013831479	0.021891421	0	0.023530497	0.959787376
352953	0.007017573	0	0	0.021739987	-0.003944778	0.016807118	0.011560822	0.025554965
69694	0	0	0.020934067	0.008032172	0.015535892	0	0.028830507	-0.327082126
383123	0.006986869	-0.006006024	0	-0.024292693	0.006006024	-0.033901552	0.005571045	-0.194423962
594333	-0.021053409	0	0.0102565	0	0.007952328	0.017084433	0	-0.320496441
708328	0.01408474	0.006006024	0	0.010869672	0.021545336	0	0	0.781059824
66995	-0.01408474	0	0.01015237	-0.015005105	-0.021093736	0.03333842	-0.00554018	0.219213459
372543	-0.12014312	-0.49877255	0.467985455	0.130485489	0.101782594	0.108833641	-0.158089243	-6.965790444
132492	-0.000486414	-0.002019341	0.001894678	0.000528326	0.000412078	-0.000439813	-0.000640037	-0.026201581
59237	0.420028058	0.818204059	0.58447432	0.447981761	0.738064034	0.61224133	0.446858516	-0.000371073

PENGUMUMAN

Item Yang Masuk dan Keluar Dalam Perhitungan Indeks KOMPAS100

No. Peng-00025/BEI.PSH/01-2011

(dapat dilihat di internet: <http://www.idx.co.id>)


Pengumuman PT Bursa Efek Jakarta No. Peng-331/BEJ-DAG/U/08-2007 tanggal 10 Januari 2011 perihal Indeks KOMPAS100 dan berdasarkan hasil evaluasi kami pada bulan Januari 2011, daftar saham yang akan digunakan dalam perhitungan Indeks KOMPAS100, terlampir dan daftar saham yang masuk dan keluar dalam perhitungan Indeks KOMPAS100 untuk bulan Februari 2011 sampai dengan Juli 2011.

naklum.

Jakarta, 31 Januari 2011



Indonesia Stock Exchange
Bursa Efek Indonesia


Andre P. J. Toelle
Divisi Perdagangan Saham



Poltak Hotradero
Kepala Divisi Riset

1. **Manajemen Pengawas Pasar Modal dan Lembaga Keuangan**
a. **PT OJK, Bapepam dan LK**
b. **PT PIR, Bapepam dan LK**
c. **Asosiasi Perusahaan Pasar Modal**
d. **Perusahaan Tercatat yang terkait dengan Bursa Efek Indonesia**
e. **Kliring Penjaminan Efek Indonesia**
f. **Kustodian Sentral Efek Indonesia**
g. **Keanggotaan PT Bursa Efek Indonesia**
h. **Perusahaan Bursa Efek Indonesia**

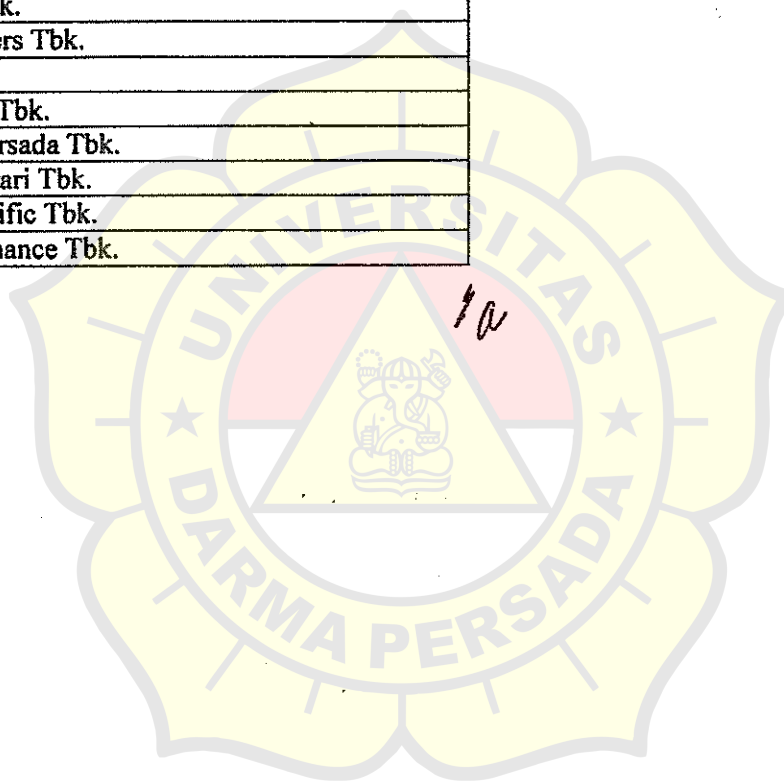


Nama Emiten	No.	Kode.	Nama Emiten
Agro Lestari Tbk.	51	INDY	Indika Energy Tbk.
Karya (Persero) Tbk.	52	INKP	Indah Kiat Pulp and Paper Tbk.
Energy Tbk.	53	INTA*	Intraco Penta Tbk
Corporindo Tbk.	54	INTP	Indocement Tunggul Prakasa Tbk.
a Tambang (Persero) Tbk.	55	IPOL*	Indopoly Swakarsa Industry Tbk.
Natural Resources Tbk.	56	ISAT	Indosat Tbk.
International Tbk.	57	ITMG	Indo Tambangraya Megah Tbk.
Sutera Realty Tbk.	58	JPFA*	JAPFA Comfeed Indonesia Tbk
Central Asia Tbk.	59	JSMR	Jasa Marga (Persero) Tbk.
Bukopin Tbk.	60	KARK	Dayaindo Resources International Tbk.
Negara Indonesia (Persero) Tbk.	61	KIAS*	Keramika Indonesia Asosiasi Tbk.
Rakyat Indonesia (Persero) Tbk.	62	KIJA	Kawasan Industri Jababeka Tbk.
Tabungan Negara (Persero) Tbk.	63	KLBF	Kalbe Farma Tbk.
Danamon Indonesia Tbk.	64	LPKR	Lippo Karawaci Tbk.
i Investama Tbk.	65	LSIP	PP London Sumatra Indonesia Tbk.
cat Petroleum Energy Tbk.	66	MEDC	Medco Energi International Tbk.
nternational Tbk.	67	MIRA	Mitra International Resources Tbk.
Pembangunan Daerah Jawa Barat Santen Tbk.	68	MLPL	Multipolar Tbk.
l City Tbk.	69	MNCN	Media Nusantara Citra Tbk.
n Laju Tanker Tbk.	70	MPPA	Matahari Putra Prima Tbk.
Mandiri (Persero) Tbk.	71	NIKL	Pelat Timah Nusantara Tbk.
il Mediacom Tbk.	72	PGAS	Perusahaan Gas Negara (Persero) Tbk.
e & Brothers Tbk.	73	PLAS	Polaris Investama Tbk.
Internasional Indonesia Tbk.	74	PNBN	Bank Pan Indonesia Tbk.
u Coal Energy Tbk.	75	PNLF	Panin Financial Tbk.
o Pacific Tbk.	76	PTBA	Tambang Batubara Bukit Asam (Persero) Tbk.
Serpong Damai Tbk.	77	PTPP	PP (Persero) Tbk.
e Telecom Tbk.	78	PWON*	Pakuwon Jati Tbk.
Resources Tbk.	79	PYFA*	Pyridam Farma Tbk.
Uluwatu Villa Tbk.	80	RALS	Ramayana Lestari Sentosa Tbk.
Plantation Tbk.	81	SDRA*	Bank Himpunan Saudara 1906 Tbk.
n Resources Tbk.	82	SGRO	Sampoerna Agro Tbk.
Marga Nusaphala Persada Tbk.	83	SMCB	Holcim Indonesia Tbk.
ell Development Tbk.	84	SMGR	Semen Gresik (Persero) Tbk.
en Pokphand Indonesia Tbk.	85	SMRA	Summarecon Agung Tbk.
ra Development Tbk.	86	SMSM*	Selamat Sempurna Tbk.
ra Property Tbk.	87	SOBI*	Sorini Agro Asia Corporindo Tbk.
a Henwa Tbk.	88	SULI	Sumalindo Lestari Jaya Tbk.
nd Development Tbk.	89	TBLA	Tunas Baru Lampung Tbk.
Dunia Makmur Tbk.	90	TINS	Timah (Persero) Tbk.
a Tbk.	91	TIRT	Tirta Mahakam Resources Tbk.
eland Development Tbk.	92	TLKM	Telekomunikasi Indonesia (Persero) Tbk.
ji Mega Persada Tbk.	93	TMPI	AGIS Tbk.
xiata Tbk.	94	TRAM	Trada Maritime Tbk.
ng Garam Tbk.	95	TRUB	Truba Alam Manunggal Engineering Tbk.
i Tunggul Tbk.	96	TURI	Tunas Ridean Tbk.
green Invesco Tbk	97	UNSP	Bakrie Sumatera Plantations Tbk.
o Plantations Tbk.	98	UNTR	United Tractors Tbk.
ational Nickel Indonesia Tbk.	99	UNVR	Unilever Indonesia Tbk.
ood Sukses Makmur Tbk.	100	WIKA	Wijaya Karya (Persero) Tbk.

Daftar Saham Yang Keluar Dari Indeks KOMPAS100

Regulation No. Peng -00025/BE.LPSH/01-2011 Tanggal 31 Januari 2011)

Kode	Nama Saham
ADMG	Polychem Indonesia Tbk.
APOL	Arpeni Pratama Ocean Line Tbk.
BCIP	Bumi Citra Permai Tbk.
BKDP	Bukit Darmo Property Tbk.
BNGA	Bank CIMB Niaga Tbk.
CTRS	Ciputra Surya Tbk.
DGJK	Duta Graha Indah Tbk.
HEXA	Hexindo Adiperkasa Tbk.
NAF	Indofarma Tbk.
MRAT	Mustika Ratu Tbk.
POLY	Asia Pacific Fibers Tbk.
SPMA	Suparma Tbk.
SRSN	Indo Acidatama Tbk.
TOTL	Total Bangun Persada Tbk.
TRIL	Triwira Insanlestari Tbk.
TSPC	Tempo Scan Pacific Tbk.
VRNA	Verena Multi Finance Tbk.



PENGUMUMAN

n Emiten yang Masuk dan Keluar dalam Penghitungan Indeks KOMPAS100

No. Peng-00435/BELPSH/07-2011

(dapat dilihat di internet: <http://www.idx.co.id>)

Pengumuman PT Bursa Efek Indonesia (dh. PT Bursa Efek Jakarta) No. Peng-331/BEJ-2007 tanggal 10 Agustus 2007 perihal Indeks KOMPAS100 dan berdasarkan hasil evaluasi bulan Juli 2011 atas saham-saham yang akan digunakan dalam penghitungan Indeks 00, terlampir kami sampaikan daftar saham yang masuk dan keluar dalam penghitungan VPAS100 untuk periode perdagangan Agustus 2011 sampai dengan Januari 2012.

gar maklum.

Jakarta, 25 Juli 2011



Poltak Hotradero
Kepala Divisi Riset

Andre P. J. Toelle

pala Divisi Perdagangan Saham

Yth.

Badan Pengawas Pasar Modal dan Lembaga Keuangan

Biro TLE, Bapepam dan LK

Biro PIR, Bapepam dan LK

Referensi Pasar Modal

Perusahaan Tercatat yang terkait

Anggota Bursa Efek Indonesia

PT Kliring Penjaminan Efek Indonesia

PT Kustodian Sentral Efek Indonesia

Waris Utama PT Bursa Efek Indonesia

PT Bursa Efek Indonesia.



**Daftar Saham yang Masuk dalam Indeks KOMPAS100
Periode Agustus 2011 s.d. Januari 2012**

(Lampiran Pengumuman No. Peng-00435/BEL.PSH/07-2011 tanggal 25 Juli 2011)

No.	Kode	Nama Emiten	Keterangan
1.	AALI	Astra Agro Lestari Tbk.	Tetap
2.	ADHI	Adhi Karya (Persero) Tbk.	Tetap
3.	ADRO	Adaro Energy Tbk.	Tetap
4.	AKRA	AKR Corporindo Tbk.	Tetap
5.	ANTM	Aneka Tambang (Persero) Tbk.	Tetap
6.	APLN	Agung Podomoro Land Tbk.	Baru
7.	ASII	Astra International Tbk.	Tetap
8.	ASRI	Alam Sutera Realty Tbk.	Tetap
9.	BBCA	Bank Central Asia Tbk.	Tetap
10.	BBKP	Bank Bukopin Tbk.	Tetap
11.	BBNI	Bank Negara Indonesia (Persero) Tbk.	Tetap
12.	BBRI	Bank Rakyat Indonesia (Persero) Tbk.	Tetap
13.	BBTN	Bank Tabungan Negara (Persero) Tbk.	Tetap
14.	BDMN	Bank Danamon Indonesia Tbk.	Tetap
15.	BHIT	Bhakti Investama Tbk.	Tetap
16.	BIPI	Benakat Petroleum Energy Tbk.	Tetap
17.	BISI	Bisi International Tbk.	Tetap
18.	BJBR	Bank Pembangunan Daerah Jawa Barat dan Banten Tbk.	Tetap
19.	BKSL	Sentul City Tbk.	Tetap
20.	BLTA	Berlian Laju Tanker Tbk.	Tetap
21.	BMRI	Bank Mandiri (Persero) Tbk.	Tetap
22.	BMTR	Global Mediacom Tbk.	Tetap
23.	BNBR	Bakrie & Brothers Tbk.	Tetap
24.	BNII	Bank Internasional Indonesia Tbk.	Tetap
25.	BNLI	Bank Permata Tbk.	Baru
26.	BORN	Borneo Lumbang Energi & Metal Tbk.	Baru
27.	BRAU	Berau Coal Energy Tbk.	Tetap
28.	BRMS	Bumi Resources Minerals Tbk.	Baru
29.	BRPT	Barito Pacific Tbk.	Tetap
30.	BSDE	Bumi Serpong Damai Tbk.	Tetap
31.	BTEL	Bakrie Telecom Tbk.	Tetap
32.	BUMI	Bumi Resources Tbk.	Tetap
33.	BUVA	Bukit Uluwatu Villa Tbk.	Tetap
34.	BWPT	BW Plantation Tbk.	Tetap
35.	BYAN	Bayan Resources Tbk.	Tetap
36.	CMNP	Citra Marga Nusaphala Persada Tbk.	Tetap

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No.	Kode	Nama Emiten	Keterangan
7.	CPIN	Charoen Pokphand Indonesia Tbk.	Tetap
8.	CTRA	Ciputra Development Tbk.	Tetap
9.	CTRP	Ciputra Property Tbk.	Tetap
10.	DEWA	Darma Henwa Tbk.	Tetap
1.	DILD	Intiland Development Tbk.	Tetap
2.	DOID	Delta Dunia Makmur Tbk.	Tetap
3.	ELSA	Elnusa Tbk.	Tetap
4.	ELTY	Bakrieland Development Tbk.	Tetap
5.	EMDE	Megapolitan Developments Tbk.	Baru
6.	ENRG	Energi Mega Persada Tbk.	Tetap
7.	EXCL	XL Axiata Tbk.	Tetap
8.	GGRM	Gudang Garam Tbk.	Tetap
9.	GIAA	Garuda Indonesia (Persero) Tbk.	Baru
0.	GJTL	Gajah Tunggal Tbk.	Tetap
1.	GREN	Evergreen Invesco Tbk	Tetap
2.	HRUM	Harum Energy Tbk.	Baru
3.	ICBP	Indofood CBP Sukses Makmur Tbk.	Baru
4.	INCI	Intanwijaya Internasional Tbk.	Baru
5.	INCO	International Nickel IndonesiaTbk.	Tetap
6.	INDF	Indofood Sukses Makmur Tbk.	Tetap
7.	INDY	Indika Energy Tbk.	Tetap
8.	INKP	Indah Kiat Pulp and Paper Tbk.	Tetap
9.	INTA	Intraco Penta Tbk	Tetap
0.	INTP	Indocement Tunggal Prakasa Tbk.	Tetap
1.	IPOL	Indopoly Swakarsa Industry Tbk.	Tetap
2.	ISAT	Indosat Tbk.	Tetap
3.	ITMG	Indo Tambangraya Megah Tbk.	Tetap
4.	JPFA	Japfa Comfeed Indonesia Tbk	Tetap
5.	JPRS	Jaya Pari Steel Tbk.	Baru
6.	JSMR	Jasa Marga (Persero) Tbk.	Tetap
7.	KIJA	Kawasan Industri Jababeka Tbk.	Tetap
8.	KLBF	Kalbe Farma Tbk.	Tetap
9.	KRAS	Krakatau Steel (Persero) Tbk.	Baru
0.	LPKR	Lippo Karawaci Tbk.	Tetap
1.	LSIP	PP London Sumatra Indonesia Tbk.	Tetap
2.	MAPI	Mitra Adiperkasa Tbk.	Baru
3.	MEDC	Medco Energi International Tbk.	Tetap
4.	MLPL	Multipolar Tbk.	Tetap
5.	MNCN	Media Nusantara Citra Tbk.	Tetap
5.	MPPA	Matahari Putra Prima Tbk.	Tetap

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Kode	Nama Emiten	Keterangan
MYOR	Mayora Indah Tbk.	Baru
NIKL	Pelat Timah Nusantara Tbk.	Tetap
PGAS	Perusahaan Gas Negara (Persero) Tbk.	Tetap
PKPK	Perdana Karya Perkasa Tbk.	Baru
PNBN	Bank Pan Indonesia Tbk.	Tetap
PNLF	Panin Financial Tbk.	Tetap
PTBA	Tambang Batubara Bukit Asam (Persero) Tbk.	Tetap
PTPP	PP (Persero) Tbk.	Tetap
PWON	Pakawon Jati Tbk.	Tetap
PYFA	Pyridam Farma Tbk.	Tetap
RAIS	Ramayana Lestari Sentosa Tbk.	Tetap
SGRO	Sampoerna Agro Tbk.	Tetap
SMCB	Holcim Indonesia Tbk.	Tetap
SMGR	Semen Gresik (Persero) Tbk.	Tetap
SMRA	Summarecon Agung Tbk.	Tetap
TBIG	Tower Bersama Infrastructure Tbk.	Baru
TINS	Timah (Persero) Tbk.	Tetap
TLKM	Telekomunikasi Indonesia (Persero) Tbk.	Tetap
TRAM	Trada Maritime Tbk.	Tetap
TRUB	Truba Alam Manunggal Engineering Tbk.	Tetap
UNSP	Bakrie Sumatera Plantations Tbk.	Tetap
UNTR	United Tractors Tbk.	Tetap
UNVR	Unilever Indonesia Tbk.	Tetap
WIKA	Wijaya Karya (Persero) Tbk.	Tetap

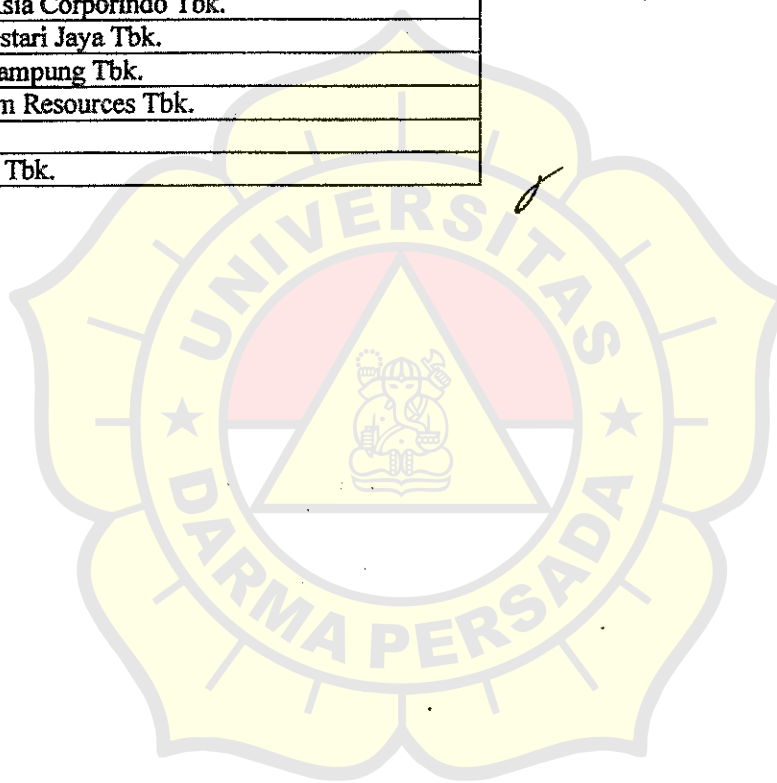


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**Daftar Saham yang Keluar dari Indeks KOMPAS100
Periode Agustus 2011 s.d. Januari 2012**

(ampiran Pengumuman No. Peng -00435/BEL.PSH/07-2011 tanggal 25 Juli 2011)


Kode	Nama Saham
ASIA	Asia Natural Resources Tbk.
COWL	Cowell Development Tbk.
GZCO	Gozco Plantations Tbk.
KARK	Dayaindo Resources International Tbk.
KIAS	Keramika Indonesia Assosiasi Tbk.
MIRA	Mitra International Resources Tbk.
PLAS	Polaris Investama Tbk.
SDRA	Bank Himpunan Saudara 1906 Tbk.
SMSM	Selamat Sempurna Tbk.
SOBI	Sorini Agro Asia Corporindo Tbk.
SULI	Sumalindo Lestari Jaya Tbk.
TBLA	Tunas Baru Lampung Tbk.
TIRT	Tirta Mahakam Resources Tbk.
TMPI	AGIS Tbk.
TURI	Tunas Ridean Tbk.



LAMPIRAN 5


**LEMBAR KONSULTASI
BIMBINGAN SKRIPSI MAHASISWA**

Nama Mahasiswa : Iswandi
 No. Induk Mhs : 2008410022
 Dosen Pembimbing : Ibu Atik Isnawati, S.E., Ak, M.si.
 Mulai Bimbingan : Maret 2012
 Terakhir Bimbingan : Mei 2012


No.	Hari/Tanggal Bimbingan	Bab. Materi Bimbingan	Tanda Tangan Pembimbing
1.	Kamis, 08/03/2012	Judul Skripsi	
2.	Rabu, 14/03/2012	Revisi Bab I, II dan III	
3.	Rabu, 28/03/2012	Revisi Bab I, II dan III	
4.	Rabu, 18/04/2012	Revisi Bab IV	
5.	Rabu, 25/04/2012	Revisi Bab IV	
6.	Rabu, 16/05/2012	Revisi Bab IV dan V	
8.	Rabu, 23/05/2012	Revisi Bab V	
9.	Kamis, 24/05/2012	Acc Sidang	

Jakarta, 8 Maret 2012

Mengetahui Kajur


 (Firsan Nova, S.E., M.M.)

Pembimbing


 (Atik Isnawati, S.E., Ak. M.si)