

Rövid név	ISIN azonosító	Névérték	Vételár	Átlagárfolyam	Minimális
Összesítő a KELER Zrt-n keresztül lebonyolított tőzsdén kívüli (OTC) értékpapír forgalomról					
2019.09.16 - 2019.09.20					
Diszkont kincstárjegy	ISIN azonosító	Névérték	Vételár	Átlagárfolyam	Minimális
D191002	HU0000522636	17000000	16744949	98.4997	98.4997
D191106	HU0000522701	310000	309987.6	99.996	99.996
D191120	HU0000522347	50043770	49699216.743	99.723948	98.4955
D191127	HU0000522727	220000	219987.46	99.9943	99.9943
D191204	HU0000522743	124000	123989.088	99.9912	99.9912
D191211	HU0000522750	572830	572816.626	99.995774	99.986
D191218	HU0000522768	34491690	34492801.429	100.001515	100.0002
D191231	HU0000522420	106694840	106673382.705	99.984605	99.9676
D200226	HU0000522495	17372430	17368552.864	99.973954	99.95925
D200429	HU0000522578	68410	68395.301	99.967308	99.9502
D200624	HU0000522644	70063000	70013878.152	99.961608	99.9295
D200826	HU0000522735	1419950	1419317.522	99.93744	99.914799
D190918	HU0000522651	1711820	1711802.882	99.999	99.999
D190925	HU0000522255	4589350	4589322.901	99.999498	99.9986
Összesen		304682090	304008400.273		
Jelzáloglevél	ISIN azonosító	Névérték	Vételár	Átlagárfolyam	Minimális
OJB2024/A	HU0000653167	1012000	1010988	99.9	99.9
KHJZB2024V	HU0000653282	40000000	40000000	100	100
UCJBV2020A	HU0000652433	200	205.733	102.8665	102.866
Összesen		41012200	41011193.733		
Kamatozó kincstárjegy	ISIN azonosító	Névérték	Vételár	Átlagárfolyam	Minimális
F191009	HU0000552039	1860	1880.45	101.098599	101.0975
F191016	HU0000552047	10600	10711.503	101.051963	101.051905
F191024	HU0000552054	2000	2019.946	100.9973	100.9973
F191030	HU0000552062	13800	13931.969	100.956297	100.956297
F191106	HU0000552070	6260	6316.872	100.908498	100.908498
F191113	HU0000552138	3500	3530.125	100.860714	100.860714
F191120	HU0000552146	1450	1461.786	100.812828	100.812828
K190925	HU0000551510	142680	146169.633	102.455495	102.4452
K191002	HU0000551528	249930	255923.424	102.402365	102.392
K191009	HU0000551585	202360	207113.023	102.3459	102.3425
K191016	HU0000551593	446090	456366.412	102.307158	102.295
K191025	HU0000551601	158800	162357.048	102.244877	102.233
K191030	HU0000551619	72320	73915.241	102.214548	102.2055
K191106	HU0000551627	58450	59711.059	102.1575	102.1575
K191113	HU0000551676	153230	156463.889	102.119853	102.1096
K191120	HU0000551684	274450	280108.061	102.06155	102.0615
K191127	HU0000551692	399800	407851.64	102.021683	102.013667
K191204	HU0000551700	305650	311658.468	101.9658	101.9658
K191211	HU0000551734	227280	231638.775	101.9139	101.91
K191218	HU0000551742	3244020	3304679.37	101.870643	101.86

K191228	HU0000551759	4994470	5084436.429	101.789179	101.733496
K200108	HU0000551825	980220	997138.597	101.726	101.726
K200115	HU0000551833	676940	688298.917	101.651	101.5968
K200122	HU0000551841	158800	161386.793	101.586892	101.543684
K200129	HU0000551858	5500	5580.735	101.467909	101.467909
K200219	HU0000551924	2050	2077.074	101.32059	101.3168
K200305	HU0000551940	6800	6859.106	100.869206	100.869206
K200312	HU0000551999	1200	1209.937	100.828083	100.828083
K200402	HU0000552021	200	202.972	101.486	101.486
K200424	HU0000552104	1380	1398.535	101.343116	101.343116
K200521	HU0000552179	200	202.266	101.133	101.133
K200604	HU0000552195	2100	2121.443	101.021095	101.021095
K200618	HU0000552211	1300	1309.825	100.755769	100.755769
K200625	HU0000552229	550	553.752	100.682182	100.682182
K200702	HU0000552237	2330	2344.299	100.618309	100.610219
K200730	HU0000552278	1430490	1436250.583	100.402707	100.402696
K200806	HU0000552286	6192200	6213575.475	100.3452	100.345199
K200813	HU0000552294	542500	544060.78	100.287694	100.287273
K200822	HU0000552302	473100	474111.016	100.213675	100.2135
K200827	HU0000552310	348000	348600.648	100.172626	100.1726
K200903	HU0000552328	575950	576612.919	100.115104	100.1151
K200910	HU0000552336	46510	46536.744	100.057507	100.0575
F190925	HU0000551973	13870	14035.802	101.1954	101.1954
F191002	HU0000551981	2470	2498.35	101.149244	101.147489
Összesen		22433660	22705211.691		
Kötvény	ISIN azonosító	Névérték	Vételár	Átlagárfolyam	Minimális
OTPRF2021B	HU0000348925	40000	39700	99.25	99.25
OTPRF2022A	HU0000349956	20000	16576	82.88	82.88
OTPX2019C	HU0000344817	13000	24199.5	186.15	186.15
OTPX2020C	HU0000346689	10000	15018	150.18	150.18
OTPX2020E	HU0000354972	18000	20305.8	112.81	112.81
OTPX2020F	HU0000355672	27000	29640.6	109.78	109.78
OTPX2020G	HU0000356035	45000	49554	110.12	110.12
OTPX2021B	HU0000347893	9000	14613.3	162.37	162.37
OTPX2022C	HU0000351366	10000	15151	151.51	151.51
OTPX2023B	HU0000353057	16000	25278.4	157.99	157.99
OTPX2024B	HU0000355680	13000	15585.7	119.89	119.89
OTPX2024C	HU0000356043	13000	15707.9	120.83	120.83
PBNKP29091	HU0000359112	15000000	14952735	94.808533	85.0558
OTPRF2021A	HU0000347935	41000	44226.7	107.87	107.87
OTPRF2020A	HU0000345970	21000	23177.7	110.37	110.37
OTPRF2020B	HU0000345988	21000	25082.4	119.44	119.44
Összesen		15317000	15326552		
Tőzsrészcsevény	ISIN azonosító	Névérték	Vételár	Átlagárfolyam	Minimális
ALTEO 12,5	HU0000155726	81.725	5025.863	768.715662	765.657895
APPENINN	HU0000102132	19300	84714.601	438.935756	434.031615
CIG	HU0000097738	1702.44	13547.705	318.312657	315.836066
CYBERG	HU0000160122	672.1	12189.602	1813.658979	1801.8
ELMŰ	HU0000074513	540	1640.451	30378.722222	30378.722222
EST MEDIA	HU0000151956	348.91038	53635.091	119.902913	116.741736

FUTURAQUA	HU0000107362	6.5	145.145	111.65	111.65
GSPARK_T_A	HU0000083696	.15316	34272.28	4475.35649	4447.774908
M.TELEKOM	HU0000073507	396676.9	1706539.279	430.208888	419.705937
MASTERPLAS	HU0000093943	1840.6	13605.271	739.175867	736
MOL 125	HU0000153937	616080.125	14505054.211	2943.012934	2862.939876
OPUS	HU0000110226	4359.775	67903.699	389.376166	376.801871
OTP BANK.T	HU0000061726	282824.5	35851456.747	12676.220323	12386.546275
OTT-ONE	HU0000149679	1858.5	29428.009	285.017036	281.2868
PANNERGY	HU0000089867	2	75.475	754.75	754.75
RICHTER	HU0000123096	459915.6	22337253.931	4856.815888	4788.24718
WABERER'S	HU0000120720	15.0003	58653.865	1368.562812	1367.629163
ZWACK	HU0000074844	21	348.843	16611.571429	16611.571429
ÉMÁSZ	HU0000074539	11510	29780.617	25873.689835	25529.56
4IG	HU0000167788	1808.58	87311.056	965.52053	917.487179
AKKO TÖRZS	HU0000165972	262.4	4901.983	29890.140244	28814.363636
Összesen		1799826.80884	74897483.724		
Warrant	ISIN azonosító	Névérték	Vételár	Átlagárfolyam	Minimális
EHUBTL45	AT0000A22L85	2	405	202.5	202.5
Összesen		2	405		
Államkötvény	ISIN azonosító	Névérték	Vételár	Átlagárfolyam	Minimális
A191021L16	HU0000403209	30941400	32386456.463	104.676463	104.66
A191022H17	HU0000403449	305992.18	312909.162	102.26289	102.250012
A200122H18	HU0000403472	8007726.769	8138264.655	101.632211	101.620007
A200422H18	HU0000403563	395648.049	399648.75	101.013219	100.999999
A200424I15	HU0000403043	29917	30728.405	102.711463	102.68996
A200624B14	HU0000402953	7922720	8198470.98	103.481887	103.432
A200722H18	HU0000403589	387838.731	389352.826	100.393574	100.389276
A200723R14	HU0000402904	5414.479	5379.826	99.359995	99.359993
A200729K17	HU0000403290	522848	526118.692	100.629256	100.609996
A200731H18	HU0000403597	1212698.204	1217475.065	100.3967	100.389998
A200826J15	HU0000403076	117996	118443.11	100.382462	100.378699
A200922Q16	HU0000402938	1588.09	1612.705	101.549975	101.549975
A200923C17	HU0000403258	53182280	54280704.794	102.077501	101.8996
A201022H18	HU0000403621	969625.104	997526.601	102.879182	102.869981
A201112A04	HU0000402235	40671660	46789728.162	115.220116	114.91
A210122H19	HU0000403654	1756405.637	1796609.255	102.292886	102.279997
A210421C18	HU0000403464	188934540	190535925.531	100.985562	100.0013
A210422H19	HU0000403712	411230.95	417372.78	101.49615	101.479988
A210526J17	HU0000403381	110036	111213.036	101.039776	100.75
A210623A15	HU0000402995	47211830	47169171.981	99.971636	99.888349
A210826K18	HU0000403480	2792309	2797198.274	99.924716	99.470002
A211020I16	HU0000403217	126027	132506.167	105.149566	105.139184
A211027B16	HU0000403100	250196520	267588224.346	107.237053	100
A220330K19	HU0000403670	4543646	4663721.15	102.439308	102.140016
A220427O17	HU0000403407	84.425	84.433	100.009476	100.009476
A220427P18	HU0000403506	3072.116	3072.721	100.009993	100
A220624A11	HU0000402524	24562570	29577045.932	120.350892	119.6265
A220729I17	HU0000403308	607015	611202.797	100.689911	100.689898
A220824C19	HU0000403704	204916830	211514686.487	103.278457	98.060424
A220921L19	HU0000403738	3533015	3571059.131	100.932792	100

A221026B17	HU0000403266	401803150	420354140.294	105.070657	100
A221122J17	HU0000403357	268710	278388.419	103.570913	103.37001
A230322I17	HU0000403399	26277	26829.605	102.102994	102.102985
A230726B18	HU0000403456	181881140	179712412.114	98.895755	98.743367
A230928J18	HU0000403498	25631319	26575847.207	103.59185	103.19001
A231124A07	HU0000402383	591146830	742148720.579	126.028119	123.2229
A240221I18	HU0000403647	38845245	39841001.585	102.485899	102.3
A240626B15	HU0000403068	182895550	201330835.403	110.121755	109.352126
A240925J19	HU0000403746	6429728	6512808.794	101.265423	100.78
A241024C18	HU0000403571	876547600	957143385.678	109.207361	100
A250624B14	HU0000402748	333126620	412301546.823	123.899727	100
A261222D17	HU0000403340	512226640	565958757.628	109.412311	91.678652
A271027A16	HU0000403118	87750990	97798174.808	112.617535	100
A281022A11	HU0000402532	65425090	96309760.748	146.171871	100
A300821A19	HU0000403696	305477640	334214531.438	109.426367	100
A311022A15	HU0000403001	36857300	42185195.596	114.568523	100
A381027A18	HU0000403555	69752710	77170662.506	112.389388	109.134082
N240611	HU0000403753	1978562.749	1992158.845	100.689568	100.679998
N240617	HU0000403779	543849.267	547274.429	100.629797	100.629778
N240624	HU0000403787	825664.442	830311.318	100.5645	100.562782
N240701	HU0000403795	265927.831	267235.806	100.494935	100.491799
N240708	HU0000403803	290315.631	291550.367	100.425677	100.424
N240715	HU0000403811	251891.943	252797.855	100.359756	100.358693
N240722	HU0000403829	162346.803	162821.197	100.294091	100.292097
N240729	HU0000403837	83193.323	83380.925	100.225503	100.225486
N240805	HU0000403845	251626.301	252026.387	100.159001	100.158995
N240812	HU0000403852	59801.932	59857.189	100.0924	100.092385
N240821	HU0000403860	48864.455	48867.779	100.006883	100.0068
N240826	HU0000403878	621.072	620.819	99.969586	99.959
N240902	HU0000403886	15380	15363.728	99.8942	99.894167
N240909	HU0000403894	10100	10082.517	99.826901	99.826901
N240916	HU0000403902	61050637.462	61050614.181	99.988201	99.778803
Összesen		4656311805.945	5180009876.784		
	ISIN azonosító	Névérték	Vételár	Átlagárfolyam	Minimális
HROVKV	HU0000701685	5442.904	23894.469	4.390022	4.388931
HRUBICON	HU0000707252	134.492	531.998	3.955611	3.955611
HSZEF	HU0000701487	41.836	101.196	2.418874	2.418373
HVMC	HU0000717129	2091.711	2028.79	0.969919	0.969919
K&H ARANYK	HU0000702337	56.696	299.999	5.291361	5.291361
K&H FELTÖR	HU0000707328	912.627	1734.666	1.900739	1.900739
K&H INGATP	HU0000702287	42.199	129.214	3.062016	3.062016
K&H KÖTV.	HU0000702345	279.651	2236.896	7.998884	7.993455
K&H VÁL.2.	HU0000703418	1084.197	2495	2.301242	2.301242
K&H VÁL.3.	HU0000703426	994.001	2479.996	2.494963	2.478749
K&H VÁL.4.	HU0000703434	190.439	521.666	2.739281	2.739117
K&H ÖKO	HU0000705645	125.506	138.503	1.103557	1.103557
KHALLAMPAP	HU0000712872	277.717	299.999	1.080233	1.080233
KHNAVIIND	HU0000702352	233.257	1133.877	4.861063	4.860915
KHNYERSHUF	HU0000708078	602.751	480.463	0.797117	0.797117
MARKEBOND	HU0000719356	250156.012	273999.996	1.095316	1.095027

MARKETPBON	HU0000714555	12601.277	16808.62	1.333882	1.333825
METLIFERV	HU0000707690	34084.306	111196.462	3.262395	3.235564
MPTHKÖTB	HU0000702857	1234.51	3999.999	3.240151	3.240151
PLATINAPÍB	HU0000709969	30134.118	117970.816	3.914859	3.900256
PRIZMA	HU0000716410	116553.697	125386.624	1.075784	1.074375
PRÉMIUM A	HU0000716147	95557.245	98022.959	1.025804	1.023574
ROMAN A	HU0000718606	599.631	773.002	1.289129	1.288952
SELECTION	HU0000716436	10322.716	11474.616	1.111589	1.101271
SFSD ALAP	HU0000710876	44066	60765.251	1.37896	1.37896
SPARTAN A	HU0000722582	37476.154	37730.06	1.006775	0.999641
SPARTAN I	HU0000722608	39500.28	39999.998	1.012651	1.012651
SUPERPOSIT	HU0000713243	8789.147	10418.249	1.185354	1.184412
TORONY B	HU0000722764	2218.72	2257.998	1.017703	1.017703
ABACUS	HU0000716402	147	131.322	0.893347	0.892669
ACC AHK A	HU0000719232	104741.14	108826.101	1.039001	1.03897
ACC CVK2 A	HU0000716519	9316.824	9535.052	1.023423	1.023423
ACC CVK3 A	HU0000716527	7390.387	7696.002	1.041353	1.041353
ACC KER A	HU0000720958	5966.847	6144.467	1.029768	1.021259
ACC.SHARP	HU0000717590	2477.204	2475.248	0.99921	0.998692
AE.ALLEG 8	HU0000714134	15652.616	18938.976	1.209956	1.207949
AE.ALLEG 9	HU0000714142	16150.405	19391.573	1.200686	1
AE.ALLEG10	HU0000714159	38625.971	47015.276	1.217193	1.213959
AE.ANDAN 1	HU0000714068	4066.259	4544.879	1.117705	1.116121
AE.ANDAN2	HU0000714076	20858.913	23670.512	1.134791	1.133052
AE.ANDAN3	HU0000714084	6830.036	7797.818	1.141695	1.139929
AE.MARAT A	HU0000714886	157719.545	173939.342	1.102839	1.101128
AE.MODER 5	HU0000714100	9158.973	10818.03	1.18114	1.1785
AE.MODER 6	HU0000714118	24533.211	29402.463	1.198476	1.197315
AE.MODER 7	HU0000714126	17673.87	21279.51	1.20401	1.202582
AE.MODER4	HU0000714092	8076.34	9449.261	1.169993	1.169225
AE.ORSZ	HU0000707401	28224.362	86369.057	3.060089	3.016698
AE.PANOR A	HU0000714266	41511.459	33024.025	0.79554	0.794146
AE.PANOR R	HU0000714316	2804.161	2283.902	0.814469	0.814469
AE.PREM DY	HU0000716105	1829.694	1972.781	1.078203	1.077823
AE.PREM EV	HU0000716113	57445.118	68834.955	1.198273	1.196396
AE.PREM EX	HU0000716097	608.655	598.924	0.984012	0.984012
AE.TÖRÖK	HU0000707419	19343.583	32184.256	1.663821	1.631635
AEGCREDITA	HU0000709597	19312.356	30160.962	1.561744	1.56148
AEGCREDITR	HU0000712260	1584.035	1926.693	1.21632	1.21632
AEGLENGYB	HU0000710843	5223.65	7132.934	1.365508	1.356317
AEGON BEK	HU0000702493	41190.365	233993.5	5.680782	5.67225
AEGON EMMA	HU0000705256	12628.147	21886.589	1.733159	1.729091
AEGON NKK	HU0000702477	58095.287	121911.993	2.098483	2.092634
AEGON NKR	HU0000702485	21949.096	36096.27	1.644545	1.638797
AEGON PÉNZ	HU0000702303	115756.029	263842.436	2.279298	2.279195
AEGONALFAA	HU0000703970	127331.613	347025.642	2.725369	2.72104
AEGONALFAR	HU0000712286	6035.904	8164.96	1.352732	1.352732
AEGONCLIMB	HU0000707195	18386.349	23956.962	1.302975	1.300676
AEGONKEURV	HU0000702501	3243.136	18730.435	5.775408	5.732305
AEGONMMEXA	HU0000703145	22095.566	59321.489	2.684769	2.6

AEGONMMEXR	HU0000712278	5557.952	6765.406	1.217248	1.217248
AEGONSMART	HU0000708169	38235.2	57084.181	1.492975	1.491036
AEGONÁZSIA	HU0000705272	23217.844	40636.882	1.750244	1.727321
AEGONÓZONA	HU0000705157	927.713	1532.493	1.651904	1.651894
BP.ARANY	HU0000709290	14306.599	12326.578	0.861601	0.857
BP.BONITAS	HU0000702725	25234.51	61244.155	2.427	2.427
BP.EURRK	HU0000701560	488.479	997.997	2.04307	2.04307
BP.KÖTVÉNY	HU0000702709	446.144	3871.188	8.676992	8.674348
BP.ÁLLAMP	HU0000702691	913.411	7688.136	8.416951	8.416767
CITADELLA	HU0000707948	281821.952	598121.813	2.122339	2.116906
CLAREO ALA	HU0000718242	3824.453	3286.131	0.859242	0.859242
CONCITB	HU0000717137	21730	22219.99	1.022549	1.022549
DH ALAP B	HU0000722558	10	10.129	10129	10129
EQPRI	HU0000711809	45510.861	49520.231	1.088097	1.088097
H2000	HU0000701693	20071.378	168860.695	8.41301	8.397563
H3000	HU0000715180	7027.303	8690.63	1.236695	1.231528
HCOLUMBUS	HU0000705702	149792.544	281318.467	1.878054	1.863635
HHOLD	HU0000710116	75626.566	112060.136	1.481756	1.474426
HKEURV	HU0000706163	23236.339	33748.023	1.452381	1.448525
HKOTVENY	HU0000702030	11791.49	44856.367	3.804131	3.801428
HMOLTOFHUF	HU0000716584	28479.517	28758.189	1.009785	1.009785
HMVA	HU0000703749	64001.798	133742.875	2.089674	2.087665
HNEMRV	HU0000702295	25197.077	79152.267	3.141327	3.132408
HPB1	HU0000704697	14159.795	28424.135	2.007383	2.006199
HPB2	HU0000704705	6047.782	10769.854	1.780794	1.76925
HPB3	HU0000704713	23182.92	46483.955	2.005095	1.993556
HRESZVENY	HU0000702022	9492.703	86263.073	9.087303	9.035665
Összesen		5044226704.98684	5642737343.16		
Összesen		2670120.233	4778219.955		

Maximális	Tételszám
Maximális	Tételszám
98.4997	1
99.996	2
100	31
99.9943	1
99.9912	1
99.997701	12
100.0053	20
99.9971	19
99.982	16
99.9876	4
100	12
99.9714	10
99.999	1
100.0004	23
	153
Maximális	Tételszám
99.9	1
100	1
102.867	2
	4
Maximális	Tételszám
101.099699	2
101.052021	2
100.9973	1
100.956297	1
100.908498	1
100.860714	1
100.812828	1
102.465789	2
102.417796	3
102.3493	2
102.321917	6
102.260306	4
102.226	3
102.1575	1
102.130106	2
102.0616	2
102.034207	6
101.9658	1
101.9178	2
101.890412	5

101.808197	5
101.726	2
101.678101	3
101.6301	2
101.467909	1
101.324381	2
100.869206	1
100.828083	1
101.486	1
101.343116	1
101.133	1
101.021095	1
100.755769	1
100.682182	1
100.6264	2
100.402745	6
100.345204	5
100.2881	7
100.213737	6
100.172679	3
100.115111	3
100.057522	3
101.1954	1
101.151	2
	109
Maximális	Tételszám
99.25	1
82.88	1
186.15	1
150.18	1
112.81	1
109.78	1
110.12	1
162.37	1
151.51	1
157.99	1
119.89	1
120.83	1
114.314	3
107.87	1
110.37	1
119.44	1
	18
Maximális	Tételszám
768.733556	3
445.15908	10
325.5414	4
1922.076	4
30378.722222	1
126.942804	13

111.65	1
4497.975741	10
436.523167	153
742.890462	4
3199.035533	276
395.719927	26
12888.787879	416
288.144198	10
754.75	1
4954.6392	307
1376.3965	5
16611.571429	1
26272.841837	5
979.566438	28
30613.666667	4
	1282
Maximális	Tételszám
202.5	1
	1
Maximális	Tételszám
104.709589	11
102.279934	11
101.650003	14
101.029996	11
102.729878	7
103.5378	9
100.409989	10
99.359997	2
100.660001	14
100.420001	12
100.4	6
101.549975	1
103.0416	24
102.899999	12
117.670574	23
102.320001	14
102.2072	140
101.520003	10
101.290017	11
100.189443	8
100.270001	19
105.190081	9
108.7413	37
102.690012	16
100.009476	1
100.019986	2
121.4761	45
100.689957	5
104.5973	99
101.230001	47

105.631501	63
103.604402	7
102.103	3
99.0897	23
103.72	10
128.4406	38
102.6	12
110.701995	49
101.330001	51
112.2444	276
127.876	89
113.6491	221
114.5596	72
149.1428	68
112.4731	293
117.1203	58
115.2444	82
100.710015	12
100.62982	9
100.579812	10
100.52	9
100.43	9
100.3682	9
100.31002	9
100.225522	7
100.159018	8
100.092407	7
100.007094	6
100	4
99.894237	5
99.826901	1
100.000622	19
	2169
Maximális	Tételszám
4.391012	8
3.955611	1
2.419285	3
0.969919	1
5.291361	1
1.900739	1
3.062016	1
8.011777	3
2.301242	1
2.497211	2
2.75634	2
1.103557	1
1.080233	1
4.883388	2
0.797117	1
1.095564	6

1.333929	3
3.273631	5
3.240151	1
3.92773	19
1.078233	6
1.02927	5
1.293519	2
1.11466	4
1.37896	1
1.021072	5
1.012651	2
1.186123	3
1.017703	1
0.897	2
1.039606	5
1.023423	1
1.041353	1
1.035913	5
1.001288	2
1.210505	7
1.201306	9
1.285714	13
1.118239	6
1.134851	7
1.142174	7
1.105484	20
1.181528	7
1.199293	7
1.204668	8
1.170488	6
3.099185	30
0.798168	8
0.814469	1
1.078623	3
1.201623	8
0.984012	1
1.694223	19
1.576923	16
1.21632	1
1.38059	11
5.686884	15
1.736528	6
2.110167	25
1.653296	14
2.279368	18
2.726986	48
1.352732	1
1.31381	14
5.824946	11
2.685293	18

1.217248	1
1.494598	17
1.762566	21
1.651907	4
0.8646	5
2.427	2
2.04307	1
8.681514	3
8.423772	4
2.127748	23
0.859242	1
1.022549	1
10129	1
1.088097	1
8.433064	14
1.240122	13
1.88489	24
1.482513	8
1.4682	10
3.810761	12
1.009785	2
2.091259	12
3.16129	16
2.009156	10
1.784802	2
2.008439	6
9.130985	12
	4435
	699