SUPPLEMENTARY MATERIAL

Appendix 1

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Appendix References

Supplementary Figure 1: Multidimensional scaling analysis of all U.S. ~~pediatric-onset MS cases~~POMS cases and U.S. white controls

Supplementary Figure 2: Average wGRS of POMS and adult-onset MS cases and controls in the U.S. and Sweden

Supplementary Table 1: Characteristics of adult-onset MS cases in the U.S. and Sweden

Supplementary Table 2: Individual MS risk variant results for U.S., Sweden and meta-analysis (Excel file)

Supplementary Table 3: MHC meta-analyses unadjusted and adjusted for *HLA-DRB1*15:01* and *HLA-A*02* (Excel file)

Supplementary Table 4: Comparisons of ~~pediatric-onset MS~~POMS cases based on method of ascertainment

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Appendix 1

Network of Pediatric Multiple Sclerosis Centers Co-investigators:

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Appendix 2

U.S. Participants

~~Pediatric-onset MS~~POMS cases were enrolled through pediatric MS centers established across the U.S. at UC San Francisco (UCSF), Stony Brook, Children's Hospital of Philadelphia, Texas Children's Hospital, University of Colorado School of Medicine, University of Texas Southwestern, State University of New York Buffalo, Loma Linda University, Mayo Clinic, University of Alabama at Birmingham, Ann & Robert Lurie Children's Hospital of Chicago, University of Utah, Boston Children's Hospital, Massachusetts General Hospital, Washington University St. Louis, and Children's National Medical Center between January 2006 and December 2014. These centers are tertiary referral centers, but also serve local patients from all socioeconomic groups. A separate cohort of distinct cases were enrolled in a NIH supported case-control study (R01 NS071463, PI Waubant) with MS onset before the age of 18, seen within 4 years of disease onset, with at least 2 silent T2-bright foci on brain and cord MRI, and ascertained by a panel of at least two pediatric MS experts. Additional ~~pediatric-onset~~PO-MS cases were also provided from an MS genetic study at UCSF who had a first symptom onset prior to age 18 based on medical records. All clinically isolated syndrome cases were excluded from this study.

Whole Genome Genotyping

Whole blood was collected, processed and extracted for DNA using the Gentra Puregene protocol or received as Guthrie Card blood samples and extracted for DNA using the QIAamp DNA Micro Kit for Dried Blood Spots. Saliva was collected for DNA extraction using Oragene kits. Genome wide profiling was performed for all cases and a subset of controls (n=1,481) using the Illumina Infinium platform. The Infinium 660K, HumanOmniExpress, or HumanOmniExpressExome BeadChip was used to genotype each study participant. DNA was quantitated using the Nanodrop ND-1000, normalized and then plated for BeadChip processing. The RPGEH control group was genotyped using a custom designed Affymetrix Axiom array for individuals of non-Hispanic white (EUR) race/ethnicity with 670,176 single nucleotide polymorphisms (SNPs). High genome-wide SNP imputation coverage of these arrays including low frequency variants has been previously described.[1, 2]

Strand Alignment and Pre-Imputation Quality Control

Prior to phasing, the genetic map of Affymetrix chips and 660K chip were updated to build 37 using LiftOver.[3] Sample genotype alleles were aligned to the reference haplotype panel. Samples from the Illumina arrays were converted from Illumina's TOP format to '+' format[4] using script and strand files from the Wellcome Trust Centre for Human Genetics. Strand alignment for all chips was verified using SHAPEIT; misaligned SNPs were removed. All samples from Illumnia OmniExpress and OmniExpressExome chips were merged for further analysis. Quality control was completed on each of the three platforms separately for phasing and imputation. We removed SNPs with minor allele frequency (MAF) <0.01 and genotyping rate < 90% (n=222,801). After removing low quality SNPs, PLINK[5] was used to check sample call-rate (n=2 with <90%) and sex discrepancies (n=5).

Phasing and Imputation

Samples from all genotyping arrays were phased and imputed separately. Samples were pre-

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phased using SHAPEIT (v2.r790) and imputed using IMPUTE2 (total n=~81 million imputed SNPs for each array). Genotype imputation was performed using IMPUTE2 and the 1,000 Genomes Phase 3 reference haplotypes, based on sequence data from 2,504 individuals.[6] Files from the IMPUTE2 October 2014 haplotype release were downloaded (https://mathgen.stats.ox.ac.uk/impute/1000GP_Phase3.html). The reference panel includes ~81 million SNPs. After imputation, only SNPs with a high imputation quality score (IMPUTE2 info score $\geq$ 0.3) were retained for analysis (n=26,431,554 SNPs among the three platforms).

Population Substructure

Classical multidimensional scaling (MDS) was performed to visualize population substructure and provide quantitative measures (components) of population genetic variation. MDS was completed for all genotyped data, which was merged with the Human Genome Diversity Project (HGDP) reference (http://www.hagsc.org/hgdp/files.html). SNPs present in <90% were removed. Whole genome data was pruned using a window of 100 SNPs. Linkage disequilibrium was calculated between each pair of SNPs in the window. If linkage disequilibrium between two SNPs (R^2) was > 0.1, one of the SNPs was removed. Analysis of genome-wide average proportion of alleles shared identical by state was performed, and related/identical individuals were removed. The first three dimensions from MDS with the HGDP European population were used for identifying white, non-Hispanic study samples for the current study. Individual outliers were identified using MDS and excluded.

MHC Quality Control

A total of 98,510 SNPs in the MHC had an info score $\geq$ 0.3 after imputation. Due to a high potential for the imputation results to be biased when imputing from multiple genotyping arrays, we used precautions to eliminate SNPs most likely to be biased from analysis. First, white controls were selected from the three platforms for comparison (660K vs. OMNI; OMNI vs. Affymetrix EUR; 660k vs. Affymetrix EUR). For each of these comparisons, we conducted pairwise analyses in three ways: 1) unmatched and unadjusted; 2) matched on MDS; and 3) unmatched but adjusting for the first three components of MDS. SNPs identified (p<0.05) from the union of the above three control comparisons were excluded (n=27,478). Second, because imputation of rare alleles is less reliable, we removed 16,262 SNPs with a MAF <1%. Finally, we removed 33,357 SNPs that were successfully imputed in fewer than 99% of individuals, and 210 SNPs found to be out of Hardy-Weinberg equilibrium (HWE) in controls (p<0.000001). A total of 21,203 SNPs remained for MHC region analysis. We additionally calculated HWE for each imputed SNP with info $\geq$ 0.3 by platform using post-MDS controls only. SNPs with HWE p-value < 0.000001 in any of the three platforms were also excluded (N=6,989). Final analysis of the MHC included 14,214 SNPs.

Swedish Genotyping and Quality Control

All participants were asked to give blood samples, which were genotyped on an Illumina custom array and on OmniExpress-24. HLA genotypes, including *HLA-DRB1* and *HLA-A*, ~~genotypes~~ were imputed with HLA*IMP02[7] using MHC region data for each individual from the custom array. SNPs with <2% MAF, genotyped in <98% of individuals, or not in HWE among controls (p<0.0001) were removed from analysis. Individuals with >2% failed genotype calls, related individuals, or population outliers identified using the SmartPCA program were removed.[8] Ninety of the MS risk SNPs were present on the custom array. Proxy SNPs for an additional

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eighteen MS risk SNPs were selected from the custom array ($R^2 >0.8$, except rs28723576, which had $R^2 >0.71$).

Appendix References

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Supplementary Figure 1. Multidimensional scaling analysis of all U.S. ~~pediatric onset~~ POMS cases (n=714) and U.S. white controls (n=10,875).

U.S. ~~pediatric onset~~PO-MS cases included 394 white, 12 African, 9 East Asian, 20 Central South Asian, 5 American, and 274 admixed individuals. Human Genome Diversity Project (HGDP) data (N=897) were merged with case and control data. Black + are color coded for cases and yellow + for controls in study participants. Circles are color coded for HGDP sample origin.

Supplementary Figure 2. Average wGRS of POMS and adult-onset MS cases and controls in the U.S. and Sweden
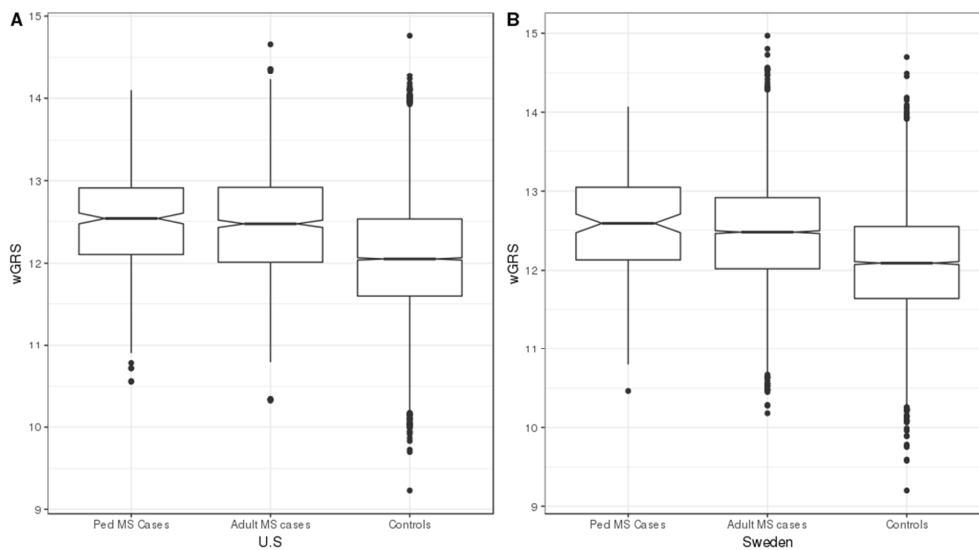
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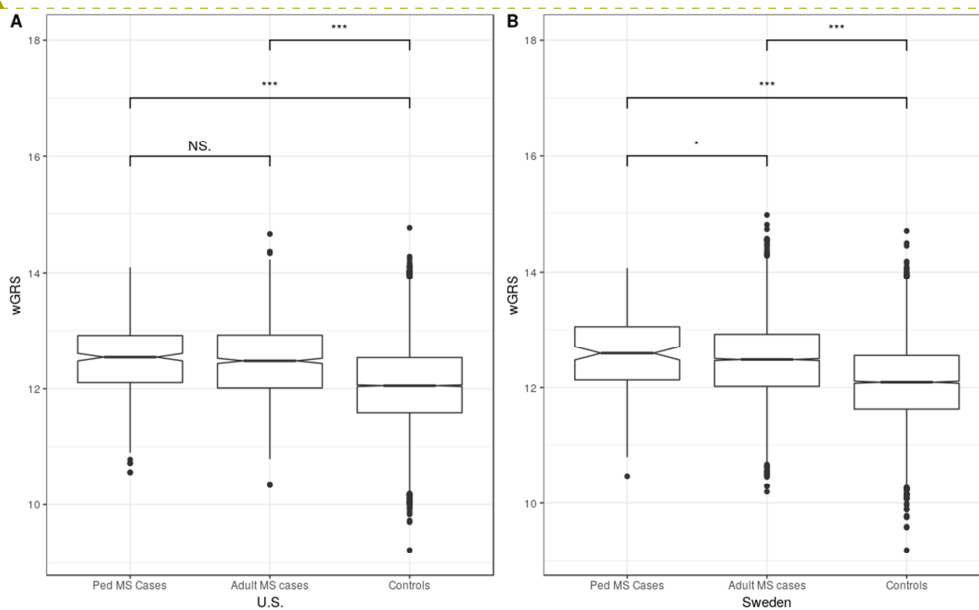
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Asterisk denotes statistical significance: * < 0.05, ** < 0.01, * < 0.001.**

Supplementary Table 1. Characteristics of adult-onset MS cases in the U.S. and Sweden

	U.S.	**Sweden**
N	1,103	6,485
Females:Males	4.0:1	1.7:1
HLA-DRB1*15:01		
0	517 (47)	2,708 (42)
1-2	586 (53)	3,777 (58)

MS= multiple sclerosis; wGRS=weighted genetic risk score

Table values are mean (SD) for continuous variables or n (%) for categorical variables

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Supplementary Table 2. Individual MS risk variant results for U.S., Sweden and meta-analysis (Excel file)

Supplementary Table 3. MHC meta-analyses unadjusted and adjusted for *HLA-DRB1*15:01* and *HLA-A*02* (Excel file)
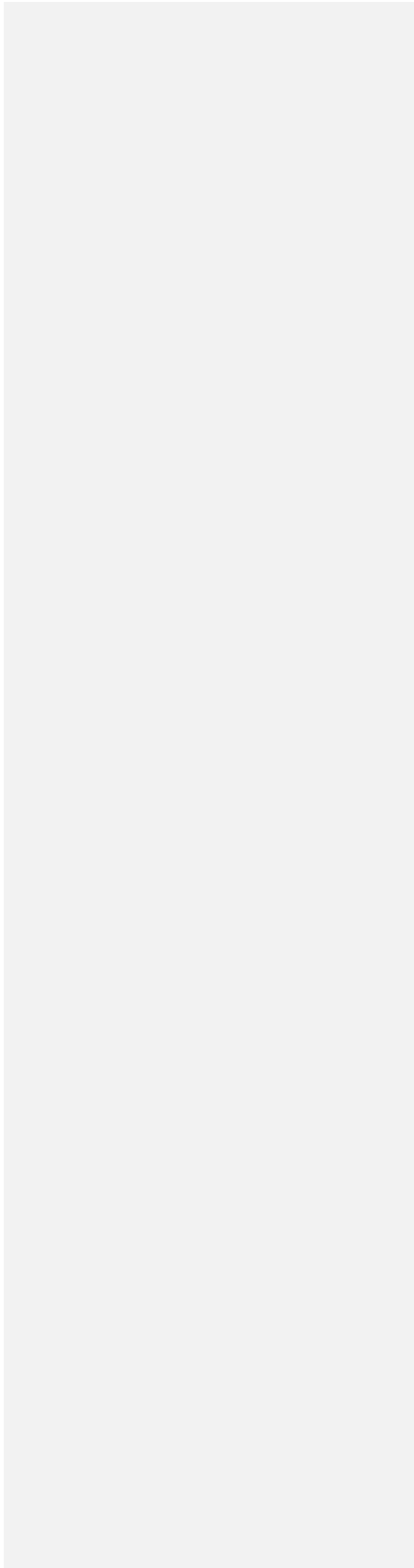
Supplementary Table 4. Comparisons of ~~pediatric-onset~~PO -MS cases based on method of ascertainment

	U.S. Clinic Diagnosed ~~PO~~Pediatric-Onset MS Cases	U.S. Self-Reported ~~PO~~Pediatric-Onset MS Cases	Sweden Self-Reported ~~Pediatric-Onset~~PO MS Cases
N	130	264	175
Age of onset	12.81 (3.96)	14.66 (2.80)	14.91 (2.67)
wGRS	12.38 (0.68)	12.56 (0.64)	12.73 (0.66)
*HLA-DRB1*15:01*			
0	67 (52)	126 (48)	57 (33)
1-2	63 (48)	138 (52)	118 (67)

MS= multiple sclerosis; wGRS=weighted genetic risk score

Table values are mean (SD) for continuous variables or n (%) for categorical variables.

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CHR	RS#	Immunochip ID	POSITION	OR
1	rs3748817	imm_1_2515525	2525665	1.13
1	rs3007421	rs3007421	6530189	2.49
1	rs12087340	rs12087340	85746993	1.32
1	rs11587876	rs11587876	85915183	1.18
1	rs41286801	1kg_1_92748052	92975464	1.26
1	rs7552544	1kg_1_101013481	101240893	1.15
1	rs11581062[a]	rs11581062	101407519	1.20
1	rs6677309	imm_1_116881689	117080166	1.07
1	rs666930	rs666930	120258970	1.02
1	rs2050568	rs2050568	157770241	1.23
1	rs35967351	imm_1_158978428	160711804	1.05
1	rs1359062	imm_1_190808095	192541472	1.06
1	rs55838263	imm_1_199141351	200874728	1.01
2	rs4665719	rs4665719	25017860	0.85
2	rs2163226	1kg_2_43214760	43361256	0.85
2	rs842639	imm_2_60948749	61095245	1.12
2	rs7595717	imm_2_68440981	68587477	1.24
2	rs17174870	rs17174870	112665201	1.03
2	rs9967792	imm_2_191682680	191974435	1.21
2	rs9989735	imm_2_230823698	231115454	1.30
3	rs11719975	1kg_3_18760589	18785585	1.18
3	rs2371108	1kg_3_27732022	27757018	1.23
3	rs1813375	1kg_3_28053575	28078571	1.29
3	rs4679081	imm_3_32988487	33013483	1.16
3	rs9828629	rs9828629	71530346	1.27
3	rs2028597	rs2028597	105558837	1.67
3	rs1131265	imm_3_120705146	119222456	1.12
3	rs1920296	rs1920296	121543577	1.26
3	rs2255214[b]	rs2255214	121770539	1.20
3	rs9282641[c]	rs9282641	121796768	1.44
3	rs1014486	imm_3_161173806	159691112	1.14
4	rs7665090	rs7665090	103551603	1.11
4	rs2726518	rs2726518	106173199	1.11
5	rs6881706	imm_5_35914913	35879156	0.97
5	rs6880778	imm_5_40434853	40399096	1.07
5	rs71624119	imm_5_55476487	55440730	1.17
5	rs756699	rs756699	133446575	0.93
5	none	imm_5_141486748	141506564	

5	rs2546890	imm_5_158692478	158759900	1.05
5	rs4976646	rs4976646	176788570	1.42
6	rs17119	rs17119	14719496	1.19
6	rs941816	rs941816	36375304	1.04
6	rs72928038	imm_6_91033489	90976768	0.77
6	rs802734	imm_6_128320491	128278798	0.99
6	rs11154801	rs11154801	135739355	1.07
6	rs17066096	rs17066096	137452908	1.00
6	rs7769192[d]	imm_6_138004348	137962655	1.06
6	rs67297943	imm_6_138286509	138244816	1.25
6	rs212405	imm_6_159390547	159470559	1.15
7	rs1843938	rs1843938	3113034	1.05
7	rs706015	imm_7_26981513	27014988	0.98
7	rs917116	imm_7_28139264	28172739	1.12
7	rs60600003	1kg_7_37348990	37382465	1.03
7	rs201847125	imm_7_50296113	50325567	
7	rs354033	rs354033	149289464	1.07
8	rs1021156	1kg_8_79738359	79575804	1.08
8	rs2456449	rs2456449	128192981	1.13
8	rs4410871	rs4410871	128815029	1.08
8	rs759648	imm_8_129228127	129158945	1.04
9	rs2150702	NA	5893861	1.02
10	rs2104286	imm_10_6139051	6099045	1.22
10	rs793108	rs793108	31415106	1.14
10	rs2688608	rs2688608	75658349	1.23
10	rs1782645	imm_10_80718617	81048611	1.19
10	rs7923837	rs7923837	94481917	0.99
11	rs7120737	rs7120737	47702395	1.10
11	rs34383631	imm_11_60549906	60793330	1.05
11	rs694739	rs694739	64097233	1.21
11	rs533646[e]	imm_11_118071956	118566746	1.13
11	rs9736016	imm_11_118230104	118724894	0.95
11	rs523604[f]	imm_11_118260948	118755738	1.04
12	rs1800693	imm_12_6310270	6440009	1.74
12	rs12296430	ccc-12-6373761-G-C	6503500	1.08
12	rs11052877	imm_12_9796957	9905690	0.99
12	rs201202118	seq-t1d-12-56468329-A-T	58182062	
12	rs7132277	imm_12_122159335	123593382	1.26
13	rs4772201	1kg_13_98884260	100086259	0.92
14	rs2236262	imm_14_68331225	69261472	1.03

14	rs4903324	rs4903324	75961511	1.05
14	rs74796499	1kg_14_87502081	88432328	1.59
14	rs12148050	rs12148050	103263788	1.10
15	rs59772922	imm_15_76994521	79207466	1.11
15	rs8042861	rs8042861	90977333	1.04
16	rs2744148	rs2744148	1073552	
16	rs12927355	imm_16_11102272	11194771	1.33
16	rs4780346	imm_16_11196307	11288806	1.15
16	rs6498184	imm_16_11343491	11435990	1.12
16	rs7204270	rs7204270	30156963	1.26
16	rs1886700	imm_16_67243406	68685905	1.08
16	rs12149527	rs12149527	79110596	0.98
16	rs7196953	rs7196953	79649394	1.01
16	rs35929052	imm_16_84551985	85994484	0.84
17	rs12946510	imm_17_35165903	37912377	1.05
17	rs4796791	imm_17_37784289	40530763	1.10
17	rs4794058	rs4794058	45597098	1.00
17	rs8070345	rs8070345	57816757	1.29
18	rs7238078	rs7238078	56384192	1.09
19	rs1077667	rs1077667	6668972	1.00
19	rs34536443	imm_19_10324118	10463118	0.48
19	rs2288904	rs2288904	10742170	1.22
19	rs1870071	rs1870071	16505106	1.11
19	rs11554159	chr19_18146944	18285944	0.74
19	rs8107548	rs8107548	49870643	1.16
20	rs4810485	imm_20_44181354	44747947	1.06
20	rs17785991	imm_20_47872168	48438761	1.15
20	rs2248359	rs2248359	52791518	1.11
20	rs2256814	imm_20_61844427	62373983	0.92
20	rs6062314	rs6062314	62409713	0.70
22	rs2283792	rs2283792	22131125	1.12
22	rs470119	rs470119	50966914	1.25

| U.S. Cohort | | | | | | Swedis | |
Coef	SE	L95	U95	P	OR	Coef	SE
0.12	0.08	0.97	1.32	0.110	1.10	0.10	0.12
0.91	0.10	2.04	3.03	<0.001	1.29	0.25	0.15
0.28	0.12	1.05	1.67	0.017	1.06	0.06	0.20
0.16	0.10	0.97	1.42	0.091	1.17	0.15	0.14
0.23	0.09	1.04	1.51	0.016	1.10	0.09	0.15
0.14	0.08	1.00	1.34	0.058	1.09	0.09	0.11
0.18	0.08	1.03	1.39	0.021	1.25	0.23	0.12
0.07	0.12	0.85	1.34	0.559	1.59	0.47	0.19
0.02	0.07	0.88	1.18	0.787	0.95	-0.05	0.11
0.20	0.07	1.06	1.42	0.006	0.77	-0.27	0.11
0.05	0.08	0.89	1.23	0.564	0.66	-0.41	0.13
0.05	0.10	0.87	1.28	0.572	1.35	0.30	0.15
0.01	0.08	0.86	1.19	0.910	1.47	0.38	0.13
-0.16	0.09	0.72	1.02	0.075	1.12	0.12	0.12
-0.17	0.09	0.71	1.00	0.056	1.38	0.32	0.13
0.11	0.08	0.96	1.31	0.165	1.07	0.06	0.12
0.21	0.08	1.06	1.44	0.007	1.12	0.11	0.12
0.03	0.09	0.87	1.22	0.756	0.96	-0.04	0.12
0.19	0.08	1.03	1.42	0.022	1.00	0.00	0.11
0.26	0.09	1.10	1.54	0.002	1.27	0.24	0.13
0.17	0.08	1.01	1.38	0.039	1.26	0.23	0.12
0.20	0.07	1.06	1.42	0.006	1.12	0.11	0.11
0.25	0.07	1.11	1.48	0.001	1.23	0.21	0.11
0.15	0.08	1.00	1.35	0.047			
0.24	0.08	1.09	1.47	0.002	1.22	0.20	0.12
0.51	0.16	1.22	2.29	0.001			
0.11	0.10	0.93	1.35	0.236	1.17	0.15	0.15
0.23	0.08	1.08	1.46	0.003	1.30	0.26	0.12
0.18	0.07	1.04	1.39	0.014	1.18	0.17	0.11
0.37	0.15	1.08	1.93	0.014	2.21	0.79	0.26
0.13	0.07	0.99	1.32	0.064	1.42	0.35	0.11
0.11	0.07	0.96	1.28	0.145	1.18	0.17	0.11
0.11	0.07	0.96	1.29	0.143	0.90	-0.11	0.11
-0.03	0.08	0.83	1.15	0.752	1.26	0.23	0.13
0.07	0.07	0.93	1.24	0.348	1.00	0.00	0.11
0.16	0.09	0.98	1.40	0.082	1.47	0.38	0.15
-0.07	0.11	0.75	1.15	0.497	1.29	0.25	0.17

0.05	0.07	0.91	1.21	0.504		0.99	-0.01	0.11
0.35	0.08	1.22	1.66	<0.001		1.08	0.07	0.11
0.17	0.10	0.99	1.44	0.070		1.17	0.16	0.15
0.04	0.09	0.87	1.24	0.701		1.39	0.33	0.13
-0.26	0.12	0.61	0.97	0.027		0.85	-0.17	0.16
-0.01	0.08	0.85	1.16	0.882		1.27	0.24	0.12
0.06	0.08	0.92	1.24	0.395		1.19	0.18	0.11
0.00	0.09	0.85	1.19	0.977		1.36	0.31	0.12
0.06	0.07	0.92	1.22	0.439		0.75	-0.28	0.12
0.22	0.10	1.02	1.52	0.032		1.21	0.19	0.14
0.14	0.08	0.99	1.35	0.074		1.17	0.16	0.12
0.05	0.07	0.91	1.22	0.469		0.95	-0.06	0.11
-0.02	0.10	0.81	1.18	0.823		0.94	-0.06	0.14
0.11	0.08	0.95	1.32	0.184		0.85	-0.16	0.13
0.03	0.12	0.81	1.31	0.784		0.99	-0.01	0.18
						1.16	0.15	0.13
0.07	0.08	0.91	1.26	0.409		1.22	0.20	0.14
0.08	0.08	0.92	1.27	0.341		1.35	0.30	0.12
0.12	0.08	0.97	1.31	0.116		1.04	0.04	0.11
0.08	0.08	0.92	1.27	0.341		1.11	0.10	0.12
0.04	0.08	0.89	1.22	0.597		1.51	0.41	0.12
0.02	0.07	0.88	1.17	0.827		0.97	-0.03	0.11
0.20	0.09	1.03	1.45	0.022		1.34	0.29	0.13
0.13	0.07	0.99	1.32	0.072		1.24	0.21	0.11
0.20	0.08	1.06	1.42	0.007		1.16	0.15	0.13
0.17	0.08	1.02	1.39	0.028		1.37	0.32	0.11
-0.01	0.08	0.85	1.15	0.906		1.34	0.29	0.12
0.10	0.10	0.90	1.34	0.350		1.06	0.06	0.15
0.05	0.08	0.90	1.21	0.536		1.11	0.11	0.11
0.19	0.08	1.04	1.41	0.015		0.92	-0.08	0.11
0.12	0.08	0.96	1.32	0.140		1.20	0.18	0.12
-0.06	0.08	0.82	1.10	0.464		1.00	0.00	0.11
0.04	0.07	0.90	1.21	0.573		1.21	0.19	0.11
0.55	0.07	1.50	2.01	<0.001		1.17	0.15	0.11
0.07	0.10	0.89	1.30	0.455		1.13	0.12	0.13
-0.01	0.08	0.85	1.15	0.880		1.14	0.13	0.11
						0.89	-0.12	0.11
0.23	0.09	1.06	1.49	0.010		1.05	0.05	0.13
-0.08	0.10	0.76	1.11	0.390		1.19	0.17	0.15
0.03	0.07	0.90	1.19	0.652		0.89	-0.11	0.11

0.05	0.09	0.88	1.26	0.570	1.04	0.04	0.13
0.47	0.22	1.04	2.44	0.033	2.10	0.74	0.38
0.10	0.08	0.95	1.28	0.205	1.35	0.30	0.11
0.10	0.10	0.92	1.34	0.295	1.04	0.04	0.14
0.04	0.07	0.90	1.20	0.574	0.96	-0.05	0.11
0.29	0.08	1.14	1.56	<0.001	1.43	0.36	0.13
0.14	0.08	0.98	1.35	0.085	1.11	0.11	0.12
0.11	0.10	0.92	1.37	0.269	1.07	0.06	0.15
0.23	0.07	1.09	1.45	0.002	1.03	0.03	0.11
0.07	0.10	0.88	1.31	0.462	0.88	-0.12	0.15
-0.02	0.07	0.85	1.14	0.801	1.15	0.14	0.11
0.01	0.08	0.87	1.18	0.876	0.87	-0.14	0.12
-0.18	0.13	0.65	1.08	0.167	1.40	0.34	0.18
0.05	0.07	0.91	1.21	0.515	1.15	0.14	0.11
0.09	0.08	0.95	1.27	0.215	1.18	0.17	0.11
0.00	0.07	0.87	1.16	0.956	1.02	0.02	0.11
0.25	0.07	1.11	1.48	0.001	1.06	0.05	0.11
0.08	0.09	0.92	1.29	0.346	1.05	0.05	0.13
0.00	0.09	0.83	1.20	0.989	1.32	0.27	0.14
-0.73	0.22	0.32	0.74	0.001	0.91	-0.09	0.27
0.20	0.09	1.02	1.47	0.032	0.95	-0.06	0.14
0.10	0.08	0.95	1.29	0.186	1.07	0.07	0.11
-0.30	0.09	0.62	0.87	<0.001	1.42	0.35	0.14
0.15	0.08	0.99	1.36	0.060	0.98	-0.02	0.12
0.06	0.08	0.90	1.25	0.498	1.09	0.08	0.12
0.14	0.08	0.99	1.34	0.065	0.92	-0.08	0.11
0.10	0.07	0.96	1.29	0.167	1.14	0.13	0.12
-0.09	0.10	0.76	1.11	0.385	1.18	0.17	0.13
-0.35	0.14	0.53	0.93	0.012	1.01	0.00	0.19
0.12	0.07	0.97	1.30	0.110	1.10	0.10	0.11
0.22	0.08	1.07	1.46	0.005	1.05	0.05	0.11

	h Cohort			META			
	L95	U95	P	OR	L95	U95	P
	0.88	1.39	0.397	1.12	0.98	1.27	0.090
	0.95	1.73	0.099	1.80	0.95	3.44	0.074
	0.72	1.55	0.777	1.24	1.02	1.52	0.030
	0.88	1.55	0.282	1.17	1.00	1.38	0.050
	0.82	1.47	0.534	1.21	1.04	1.41	0.010
	0.88	1.36	0.431	1.13	1.00	1.28	0.060
	0.99	1.59	0.060	1.21	1.06	1.38	0.004
	1.09	2.33	0.016	1.27	0.87	1.86	0.222
	0.77	1.18	0.666	1.00	0.89	1.12	0.994
	0.61	0.96	0.020	0.98	0.62	1.54	0.920
	0.51	0.85	0.001	0.84	0.54	1.33	0.460
	1.00	1.83	0.052	1.16	0.91	1.47	0.230
	1.13	1.90	0.004	1.20	0.83	1.72	0.330
	0.88	1.43	0.349	0.97	0.74	1.26	0.800
	1.07	1.77	0.013	1.07	0.66	1.73	0.790
	0.85	1.34	0.583	1.10	0.97	1.25	0.150
	0.88	1.41	0.368	1.20	1.05	1.36	0.007
	0.76	1.23	0.770	1.01	0.87	1.16	0.923
	0.80	1.25	0.986	1.12	0.93	1.34	0.220
	0.98	1.65	0.074	1.29	1.12	1.49	0.001
	1.00	1.58	0.047	1.21	1.06	1.38	0.004
	0.90	1.39	0.312	1.19	1.06	1.34	0.003
	0.99	1.52	0.058	1.27	1.13	1.42	<0.001
	0.97	1.53	0.090	1.25	1.10	1.43	0.001
	0.86	1.57	0.314	1.13	0.96	1.33	0.14
	1.03	1.65	0.027	1.27	1.12	1.45	<0.001
	0.95	1.46	0.126	1.19	1.06	1.34	0.003
	1.33	3.66	0.002	1.70	1.14	2.53	0.01
	1.14	1.76	0.001	1.25	1.01	1.54	0.04
	0.96	1.47	0.122	1.14	1.01	1.28	0.03
	0.73	1.11	0.333	1.02	0.83	1.25	0.87
	0.98	1.62	0.076	1.08	0.84	1.39	0.53
	0.81	1.25	0.968	1.05	0.94	1.18	0.39
	1.10	1.96	0.009	1.27	1.03	1.57	0.025
	0.93	1.78	0.124	1.07	0.78	1.47	0.67

0.80	1.23	0.955	1.03	0.92	1.16	0.57
0.86	1.35	0.523	1.25	0.95	1.64	0.11
0.87	1.58	0.297	1.18	1.00	1.39	0.046
1.08	1.79	0.010	1.19	0.89	1.57	0.24
0.62	1.15	0.291	0.80	0.66	0.96	0.02
1.00	1.62	0.054	1.10	0.87	1.40	0.434
0.96	1.49	0.115	1.10	0.97	1.25	0.13
1.07	1.73	0.013	1.15	0.85	1.55	0.35
0.60	0.95	0.018	0.91	0.65	1.27	0.57
0.93	1.58	0.154	1.23	1.05	1.44	0.01
0.93	1.48	0.181	1.16	1.02	1.32	0.03
0.76	1.17	0.612	1.02	0.91	1.14	0.74
0.71	1.24	0.658	0.97	0.82	1.13	0.68
0.66	1.09	0.199	0.99	0.76	1.29	0.95
0.70	1.41	0.973	1.02	0.84	1.24	0.85
0.90	1.50	0.258				
0.93	1.59	0.148	1.11	0.97	1.27	0.14
1.08	1.70	0.009	1.19	0.96	1.48	0.11
0.84	1.30	0.699	1.10	0.97	1.25	0.15
0.87	1.41	0.413	1.09	0.96	1.25	0.2
1.18	1.92	0.001	1.24	0.86	1.78	0.25
0.79	1.20	0.801	1.01	0.90	1.13	0.92
1.03	1.73	0.028	1.26	1.09	1.45	0.002
1.00	1.53	0.053	1.17	1.04	1.31	0.01
0.89	1.50	0.275	1.20	1.05	1.38	0.01
1.11	1.70	0.004	1.25	1.09	1.43	0.001
1.07	1.68	0.012	1.14	0.85	1.52	0.391
0.80	1.41	0.693	1.09	0.93	1.28	0.3
0.89	1.39	0.359	1.07	0.94	1.22	0.3
0.74	1.15	0.482	1.07	0.82	1.39	0.62
0.96	1.51	0.120	1.15	1.01	1.31	0.04
0.80	1.24	0.981	0.96	0.85	1.09	0.53
0.98	1.51	0.083	1.09	0.95	1.26	0.2
0.94	1.45	0.163	1.43	0.97	2.12	0.07
0.88	1.46	0.345	1.09	0.93	1.28	0.26
0.91	1.42	0.251	1.04	0.91	1.18	0.58
0.71	1.11	0.310				
0.81	1.37	0.704	1.18	1.00	1.40	0.048
0.89	1.59	0.240	1.02	0.80	1.30	0.87
0.72	1.11	0.302	0.98	0.86	1.12	0.8

0.80	1.35	0.779	1.05	0.90	1.21	0.54
0.99	4.46	0.053	1.71	1.18	2.49	0.005
1.09	1.68	0.007	1.20	0.99	1.47	0.06
0.79	1.37	0.762	1.08	0.92	1.27	0.32
0.77	1.19	0.681	1.02	0.90	1.14	0.79
1.11	1.84	0.006	1.36	1.19	1.56	<0.001
0.89	1.40	0.358	1.14	1.00	1.29	0.049
0.80	1.43	0.664	1.10	0.94	1.30	0.25
0.83	1.28	0.770	1.16	0.96	1.40	0.125
0.66	1.18	0.397	1.00	0.84	1.20	0.98
0.92	1.42	0.214	1.04	0.89	1.20	0.64
0.68	1.11	0.269	0.97	0.85	1.10	0.621
0.98	2.00	0.063	1.07	0.64	1.76	0.808
0.93	1.42	0.186	1.08	0.96	1.21	0.19
0.95	1.48	0.139	1.12	0.99	1.28	0.08
0.82	1.26	0.877	1.01	0.89	1.13	0.94
0.85	1.31	0.623	1.19	0.98	1.43	0.08
0.81	1.36	0.708	1.07	0.93	1.24	0.344
0.99	1.75	0.057	1.12	0.86	1.46	0.4
0.54	1.54	0.734	0.65	0.35	1.22	0.18
0.72	1.24	0.689	1.10	0.85	1.41	0.47
0.86	1.34	0.532	1.09	0.96	1.24	0.17
1.07	1.87	0.014	1.02	0.54	1.92	0.96
0.77	1.25	0.878	1.10	0.94	1.28	0.26
0.85	1.38	0.512	1.07	0.94	1.22	0.32
0.74	1.15	0.474	1.04	0.84	1.30	0.69
0.90	1.43	0.283	1.11	0.99	1.25	0.08
0.92	1.52	0.186	1.03	0.80	1.32	0.83
0.69	1.47	0.979	0.82	0.58	1.16	0.26
0.89	1.37	0.373	1.12	1.00	1.26	0.054
0.84	1.30	0.671	1.16	0.98	1.37	0.08

MHC Meta-Analysis Results - Adjusted

SNP	P-value	OR
6:32026257	8.95E-42	2.516
6:31812038	6.11E-33	2.2834
6:32050544	1.09E-31	2.421
6:31618761	1.32E-31	2.2432
6:31586094	2.29E-30	2.2129
6:32071893	2.73E-30	2.4658
6:32415109	3.17E-28	2.5423
6:31914935	2.27E-26	2.0009
6:32411726	6.71E-26	2.5395
6:32627747	2.13E-25	1.9144
6:32663631	7.31E-25	1.9002
6:32667119	7.65E-25	1.8979
6:31636031	9.77E-25	2.2228
6:32667946	6.90E-24	1.8766
6:32629847	1.02E-23	1.8781
6:32295419	1.71E-23	2.851
6:32257566	1.75E-23	1.8453
6:32413317	1.75E-23	2.4393
6:31778272	1.85E-23	1.9595
6:32224388	2.54E-23	1.8402
6:31813774	3.72E-23	1.9435
6:32689078	4.65E-23	1.8674
6:32217413	9.51E-23	1.8236
6:32691411	2.30E-22	1.8368
6:31717692	2.59E-22	1.9146
6:32689414	3.48E-22	1.8345
6:32694738	3.54E-22	1.8324
6:32406342	4.54E-22	1.8
6:32694641	5.14E-22	1.829
6:32691919	5.28E-22	1.8263
6:32694710	5.35E-22	1.8307
6:32692919	7.48E-22	1.825
6:32694604	7.79E-22	1.8222
6:32688804	8.50E-22	1.8251
6:31698352	9.27E-22	1.9012
6:32690276	9.61E-22	1.82
6:32698457	9.87E-22	1.8226
6:32697739	1.02E-21	1.8172
6:32706334	1.09E-21	1.8252
6:32685953	1.10E-21	1.8167

6:32694242	1.15E-21	1.8231
6:32697801	1.16E-21	1.8154
6:32042322	1.24E-21	1.8455
6:32688617	1.50E-21	1.8126
6:32698047	1.53E-21	1.8119
6:32687689	1.56E-21	1.8126
6:32688728	1.59E-21	1.8161
6:32688730	1.59E-21	1.8161
6:32693566	1.81E-21	1.8091
6:32698417	1.82E-21	1.8091
6:32698421	1.82E-21	1.8091
6:32695022	1.87E-21	1.8088
6:32697907	1.87E-21	1.8105
6:32690027	1.92E-21	1.8084
6:32692711	1.92E-21	1.8084
6:32698322	1.92E-21	1.8076
6:32688273	1.98E-21	1.8134
6:32695082	1.98E-21	1.8081
6:32688055	2.03E-21	1.8098
6:32702930	2.07E-21	1.8077
6:32692509	2.09E-21	1.807
6:32688343	2.11E-21	1.8091
6:32697943	2.18E-21	1.8084
6:32699080	2.18E-21	1.8059
6:32706480	2.22E-21	1.8099
6:32704982	2.43E-21	1.8085
6:32693182	2.52E-21	1.8064
6:32692617	2.56E-21	1.8042
6:32692023	2.65E-21	1.8061
6:32692122	2.70E-21	1.8064
6:32687588	2.88E-21	1.8023
6:32716022	3.07E-21	1.8044
6:32700700	3.15E-21	1.8045
6:32706234	3.24E-21	1.8037
6:32713188	3.51E-21	1.8034
6:32688302	4.26E-21	1.7943
6:32690713	4.90E-21	1.7974
6:32688798	5.87E-21	1.7984
6:32698285	6.42E-21	1.7965
6:32693200	7.50E-21	1.7917
6:31604044	1.72E-20	2.2024
6:32427789	2.48E-20	1.7694
6:31449327	5.23E-20	1.918

6:31707730	7.06E-20	2.1907
6:32602482	8.80E-20	2.056
6:32414420	4.73E-19	2.4528
6:32693711	5.15E-19	1.7556
6:32413150	6.34E-19	1.7734
6:32411646	1.30E-18	1.7743
6:32223258	1.64E-18	1.7484
6:31481113	1.66E-18	1.7935
6:32289390	4.50E-18	2.6653
6:31614102	1.07E-17	1.9871
6:31480923	1.34E-17	1.7858
6:32413051	1.35E-17	2.9346
6:32786917	1.41E-17	1.7506
6:31577825	1.42E-17	2.1935
6:31922254	1.57E-17	1.7049
6:31947460	1.71E-17	1.7021
6:32237926	1.82E-17	2.6585
6:32080146	1.85E-17	2.4691
6:32259527	2.89E-17	2.655
6:32320153	4.20E-17	2.7149
6:32316016	4.26E-17	2.7189
6:32413459	8.02E-17	1.7703
6:32323529	8.38E-17	1.6606
6:31506744	9.54E-17	1.7469
6:31929014	9.71E-17	1.6832
6:31496925	1.05E-16	1.7457
6:31498497	1.07E-16	1.7454
6:31504587	1.07E-16	1.7412
6:31506854	1.07E-16	1.741
6:31502767	1.20E-16	1.7393
6:31506624	1.27E-16	1.7389
6:31499354	1.28E-16	1.7387
6:31497457	1.29E-16	1.7383
6:31497744	1.40E-16	1.7373
6:32649676	1.43E-16	1.6477
6:32326045	1.45E-16	1.6536
6:32305979	1.78E-16	2.7247
6:31488904	1.83E-16	1.734
6:32793981	2.22E-16	1.7319
6:32325707	3.96E-16	1.641
6:32337630	4.10E-16	1.6356
6:31508761	4.37E-16	1.7208
6:32322393	4.75E-16	1.6391

6:32327781	6.34E-16	1.6319
6:32328403	6.34E-16	1.6319
6:32333195	6.38E-16	1.6319
6:32321115	6.68E-16	1.6312
6:32321872	6.72E-16	1.6312
6:32412539	7.30E-16	1.7682
6:32669018	7.52E-16	1.6293
6:32412480	1.46E-15	1.7675
6:32413094	1.46E-15	1.7675
6:32413259	1.46E-15	1.7675
6:32678999	2.75E-15	1.6233
6:32278635	4.67E-15	2.3094
6:31475127	5.06E-15	1.6592
6:32451570	5.35E-15	0.5916
6:32665285	6.58E-15	1.6016
6:31524851	7.32E-15	1.6686
6:32664880	8.56E-15	1.5985
6:32661294	1.07E-14	1.5972
6:32420179	1.33E-14	1.7341
6:32665086	1.33E-14	1.5949
6:32666738	1.37E-14	1.5956
6:32663925	1.40E-14	1.5969
6:32410576	1.57E-14	2.2242
6:31657413	1.67E-14	1.6511
6:32658327	1.77E-14	1.5883
6:32664458	1.87E-14	1.5916
6:32927969	3.44E-14	1.8875
6:32921774	3.70E-14	1.8873
6:32670464	3.91E-14	1.5821
6:31484561	4.01E-14	1.6311
6:32944987	4.21E-14	1.8836
6:32671765	4.22E-14	1.5807
6:32670897	4.26E-14	1.5807
6:32674952	4.29E-14	1.5808
6:32917857	5.20E-14	1.8739
6:32660375	6.09E-14	1.5761
6:32668323	6.12E-14	1.5739
6:32948804	6.57E-14	1.8731
6:32670308	7.91E-14	1.5714
6:32626739	1.01E-13	0.6275
6:32668336	1.04E-13	1.5714
6:32199352	1.24E-13	1.5804
6:31220567	1.44E-13	1.6836

6:31610384	3.17E-13	1.5573
6:31485354	3.29E-13	1.6096
6:32658310	7.01E-13	0.6394
6:32743217	8.69E-13	1.5578
6:32176211	1.07E-12	1.6329
6:32742059	1.35E-12	1.5494
6:32746920	1.45E-12	1.5474
6:32746984	1.47E-12	1.5474
6:32744145	1.49E-12	1.5474
6:32752577	1.49E-12	1.547
6:32752788	1.56E-12	1.548
6:32745324	1.61E-12	1.546
6:32753682	1.63E-12	1.5466
6:32757396	1.67E-12	1.5461
6:32747060	1.69E-12	1.5456
6:31438390	1.77E-12	1.557
6:32757453	1.78E-12	1.5445
6:32757158	1.89E-12	1.544
6:31464571	2.14E-12	1.6482
6:32804414	2.53E-12	1.5463
6:32592200	2.85E-12	2.6388
6:32797488	2.98E-12	1.7354
6:32337686	3.20E-12	2.3378
6:32757938	3.49E-12	1.5372
6:32221782	5.02E-12	1.7791
6:32592209	5.48E-12	2.6357
6:31437318	5.49E-12	1.5461
6:32315727	6.53E-12	2.2889
6:31437158	6.97E-12	1.5443
6:32741742	8.13E-12	1.5275
6:32323745	9.87E-12	2.3459
6:31221396	1.11E-11	1.7174
6:31437195	1.34E-11	1.5361
6:31473286	1.40E-11	1.6549
6:31497399	1.70E-11	1.5317
6:31209045	2.42E-11	1.4971
6:31510858	2.68E-11	1.5232
6:31475486	2.70E-11	1.5288
6:31476514	2.72E-11	1.5268
6:31490725	2.72E-11	1.5342
6:31476134	3.22E-11	1.5294
6:31492025	3.31E-11	1.5296
6:31492004	3.76E-11	1.5282

6:31488145	3.97E-11	1.5296
6:31488191	4.05E-11	1.5273
6:31208610	4.20E-11	1.4885
6:31491131	4.20E-11	1.5263
6:31510105	4.24E-11	1.5161
6:31643399	4.54E-11	1.6412
6:32310396	4.90E-11	2.3235
6:31475413	5.30E-11	1.5271
6:31509432	7.37E-11	1.5093
6:32725193	7.42E-11	1.4847
6:32184345	8.67E-11	0.503
6:31234381	9.01E-11	1.4908
6:31475811	1.21E-10	1.5333
6:32740442	1.24E-10	1.4868
6:32312082	1.29E-10	2.2684
6:32184574	1.41E-10	0.5048
6:32186193	1.41E-10	0.5048
6:32418031	1.41E-10	1.7595
6:32730012	1.44E-10	1.4758
6:29930619	1.54E-10	1.5607
6:30853796	1.59E-10	1.5288
6:31847012	1.59E-10	1.4842
6:32218843	1.62E-10	0.662
6:32325292	1.72E-10	2.3172
6:32220685	1.74E-10	0.6624
6:32221228	1.76E-10	1.7708
6:32186245	1.77E-10	0.4655
6:31216262	2.06E-10	1.4675
6:32316240	2.33E-10	2.3147
6:31218984	2.68E-10	1.4631
6:31860337	2.71E-10	1.4775
6:31211436	2.98E-10	1.462
6:32424882	3.28E-10	1.7575
6:32297901	3.36E-10	2.3223
6:31856070	3.41E-10	1.4729
6:32186264	3.65E-10	1.684
6:32297906	3.65E-10	2.3218
6:31218327	3.89E-10	1.459
6:32298942	4.32E-10	2.3208
6:31220109	5.87E-10	1.4475
6:32338400	6.49E-10	2.325
6:32186872	6.54E-10	0.5166
6:31233845	7.66E-10	1.735

6:32335516	1.10E-09	2.3058
6:31208340	1.24E-09	1.4435
6:29937826	1.57E-09	1.603
6:31210216	1.63E-09	1.4392
6:31439740	1.80E-09	1.441
6:32582548	2.04E-09	0.6835
6:30142674	2.26E-09	1.5699
6:29934454	2.56E-09	1.5876
6:29926139	2.70E-09	1.5892
6:29981427	3.91E-09	1.584
6:31480906	4.18E-09	1.4453
6:30140342	4.61E-09	1.5588
6:29973925	5.41E-09	1.498
6:29955199	5.66E-09	1.5933
6:30067681	6.19E-09	1.5771
6:29928574	6.32E-09	1.5765
6:32404859	7.03E-09	1.9631
6:31302525	7.38E-09	1.7794
6:32685865	7.91E-09	1.432
6:29996255	7.93E-09	1.5658
6:30030114	8.20E-09	1.5646
6:32752840	8.31E-09	1.4179
6:30037990	8.49E-09	1.5655
6:31210462	8.68E-09	1.463
6:31610529	9.14E-09	0.6991
6:31234541	9.22E-09	1.7425
6:32758571	9.26E-09	1.4161
6:32759297	9.52E-09	1.4158
6:31610686	9.61E-09	0.6995
6:32296780	9.80E-09	0.6907
6:32301289	9.92E-09	0.6907
6:32754409	1.01E-08	1.415
6:32303511	1.02E-08	0.6909
6:32581253	1.04E-08	0.6858
6:31302168	1.05E-08	1.7766
6:30199016	1.06E-08	1.5351
6:32292084	1.08E-08	0.6913
6:32307260	1.08E-08	0.6915
6:30200873	1.09E-08	1.5302
6:32581190	1.09E-08	0.6861
6:32754081	1.10E-08	1.4142
6:29983715	1.17E-08	1.564
6:31209510	1.27E-08	1.4095

6:32758219	1.30E-08	1.4112
6:29929336	1.37E-08	1.5549
6:32757971	1.38E-08	1.4105
6:30069137	1.41E-08	1.5501
6:32290954	1.49E-08	0.6924
6:32759335	1.69E-08	1.4081
6:32740761	2.19E-08	1.4181
6:32298372	2.25E-08	0.6953
6:31233353	2.32E-08	1.6968
6:32333955	2.35E-08	0.696
6:32254654	2.36E-08	0.6956
6:31314313	2.40E-08	1.7732
6:31315540	2.40E-08	1.7732
6:32257337	2.40E-08	0.6969
6:32307382	2.43E-08	0.696
6:32297337	2.47E-08	0.6962
6:31461089	2.59E-08	1.4096
6:32405671	2.60E-08	1.9559
6:31314347	2.86E-08	1.7733
6:32681161	2.97E-08	0.709
6:31300518	3.01E-08	1.7722
6:31112899	3.02E-08	1.4281
6:32198948	3.06E-08	0.6719
6:32294712	3.09E-08	0.6986
6:32294992	3.24E-08	0.6995
6:32305370	3.25E-08	0.6995
6:32200754	3.26E-08	0.6724
6:32336586	3.29E-08	0.6987
6:32260559	3.30E-08	0.6996
6:32331841	3.33E-08	0.6995
6:32336074	3.34E-08	0.6998
6:32301322	3.40E-08	0.6998
6:32305690	3.40E-08	0.6999
6:32313143	3.40E-08	0.6999
6:32278266	3.43E-08	0.6999
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6:32299715	3.49E-08	0.7
6:32304031	3.49E-08	0.7
6:32195935	3.52E-08	0.6839
6:32295350	3.59E-08	0.7002
6:32302067	3.63E-08	0.7004
6:32331824	3.63E-08	0.7001
6:32330153	3.65E-08	0.7005

6:32313136	3.68E-08	0.7006
6:32312796	3.69E-08	0.7005
6:32309352	3.74E-08	0.7007
6:32313097	3.74E-08	0.7006
6:31315425	3.75E-08	1.7715
6:32307137	3.76E-08	0.7007
6:32317215	3.77E-08	0.7008
6:32317127	3.84E-08	0.701
6:32314676	3.85E-08	0.7008
6:32309864	3.88E-08	0.701
6:29942191	3.91E-08	1.4593
6:32315557	3.93E-08	0.7011
6:32313461	3.98E-08	0.701
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6:32405192	4.39E-08	1.9529
6:32310967	4.59E-08	0.7019
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6:32681277	4.94E-08	0.6941
6:32400088	5.20E-08	1.9519
6:32317471	5.36E-08	0.7036
6:32449411	5.45E-08	0.608
6:31139452	5.69E-08	1.3925
6:32282033	5.71E-08	0.7042
6:31318303	5.80E-08	1.7693
6:30171881	5.86E-08	1.4992
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6:31348580	9.67E-08	1.3837
6:31838441	9.69E-08	1.3839
6:32261771	1.00E-07	0.709
6:30154928	1.19E-07	1.5213
6:32776854	1.40E-07	1.3792
6:29837188	1.53E-07	1.4062
6:32657578	1.55E-07	0.7078
6:32270500	1.60E-07	0.7123
6:30210807	1.67E-07	1.5246
6:32266535	1.67E-07	0.7126
6:31211050	1.70E-07	1.7438
6:32451526	1.70E-07	0.609
6:32318036	1.87E-07	0.7137
6:32317276	1.90E-07	0.7139
6:32778531	1.92E-07	1.3742
6:32765383	2.13E-07	1.3728
6:31348879	2.41E-07	1.3721

6:30282332	2.42E-07	1.5139
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6:32777216	2.46E-07	1.3698
6:32776976	2.58E-07	1.369
6:31235610	2.60E-07	1.7209
6:32191457	2.67E-07	0.6546
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6:32297417	4.42E-07	0.7235
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6:31481526	8.40E-07	1.3578
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6:32605274	1.10E-06	1.3439
6:32341398	1.14E-06	0.6079
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6:32097611	1.32E-06	0.4994
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6:31300968	1.42E-06	1.3421
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6:32865997	1.59E-06	0.7359
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6:29938932	2.04E-06	1.3296
6:29939852	2.51E-06	1.3262
6:32629868	2.55E-06	0.5263
6:30116078	2.95E-06	1.4201
6:32561327	2.95E-06	1.5726

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6:31301944	3.39E-06	1.3291
6:30335350	3.52E-06	1.4545
6:31105633	3.63E-06	1.4637
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6:29944004	4.21E-06	1.3221
6:29912517	4.47E-06	1.4144
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6:29940260	4.77E-06	1.3153
6:32358513	4.82E-06	1.9841
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6:29940750	5.23E-06	1.3157
6:29835073	5.51E-06	1.3573
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6:29832332	6.29E-06	1.3735
6:29755451	7.50E-06	1.3434
6:32668105	7.58E-06	0.599
6:31235276	7.63E-06	1.7055
6:29815637	8.30E-06	1.4028
6:29777911	8.37E-06	1.4001
6:32415080	8.73E-06	0.6935
6:31303131	8.80E-06	1.6914
6:29812578	8.83E-06	1.4007
6:29799103	9.78E-06	1.3965
6:31469323	1.02E-05	1.31
6:31465103	1.07E-05	1.3094
6:29806107	1.08E-05	1.3959
6:31468546	1.10E-05	1.3088
6:32339076	1.14E-05	0.7365
6:32582577	1.16E-05	0.744
6:31005726	1.18E-05	1.7317
6:30077229	1.31E-05	1.31
6:31578772	1.32E-05	0.7507
6:32354644	1.33E-05	1.9741
6:32376788	1.46E-05	0.6757
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6:31593476	2.15E-05	0.7557
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6:32410691	2.21E-05	0.6906
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6:31331166	2.63E-05	1.7189
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6:30339602	3.43E-05	1.2892
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6:29742809	3.50E-05	1.3576
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6:31330546	6.62E-05	1.7104
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6:31136453	7.55E-05	1.3717
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6:32431358	0.0001489	2.0528
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6:32198056	0.0001638	0.7486
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6:32392945	0.0001664	0.7173
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6:32260350	0.0001729	0.7433
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6:32235177	0.0001752	0.7442
6:31888869	0.0001759	0.543
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6:32281676	0.0001765	0.7443
6:31919956	0.0001794	0.6126
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6:32268701	0.0001837	0.7449
6:32375352	0.000185	0.7018
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6:33016033	0.005316	1.2681
6:32321004	0.005383	0.7693
6:31162520	0.005386	0.8426
6:31168494	0.005388	0.8424
6:31339240	0.005464	1.4194
6:31167512	0.00555	0.8431
6:32669373	0.005563	0.5566
6:31031904	0.005569	0.8062
6:31513402	0.005608	0.7783
6:31333499	0.005615	1.1879
6:31036253	0.005703	0.8066
6:32838949	0.005735	0.759
6:33002354	0.005758	1.2676
6:32837696	0.005779	0.759
6:30104783	0.005907	0.7734
6:32840139	0.006003	0.7588
6:30815035	0.006016	0.8007
6:32367722	0.006074	0.7421
6:32843238	0.006078	0.7595
6:30297529	0.006132	1.2064
6:31318144	0.006172	0.7966
6:31331257	0.006173	1.1848
6:32841319	0.00618	0.7603

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6:32835615	0.006238	0.7596
6:31617957	0.006241	0.8245
6:32342129	0.006261	0.7476
6:32368087	0.006272	0.7343
6:30794346	0.006277	0.8326
6:31265490	0.006284	1.4491
6:32865911	0.006302	0.7834
6:32736936	0.006305	0.7997
6:33020842	0.00636	1.2452
6:32830013	0.006381	0.7387
6:31098832	0.006389	1.4079
6:32346794	0.006451	0.7456
6:31451680	0.006458	0.8052
6:30773899	0.006473	0.8326
6:32838584	0.006476	0.7593
6:32602518	0.006478	0.4982
6:32687570	0.006488	0.7866
6:32208843	0.006497	0.6304
6:32665597	0.00651	0.688
6:31336349	0.006575	1.3366
6:31015182	0.00661	0.8471
6:32371269	0.006615	0.7537
6:31175015	0.006631	0.8135
6:31618121	0.006671	0.8235
6:32833646	0.006755	0.7395
6:32838664	0.006763	0.7574
6:32341473	0.006791	0.7431
6:30076630	0.006819	0.8468
6:32207512	0.006832	0.6327
6:31025271	0.006992	0.8111
6:32635949	0.00704	0.8268
6:31027510	0.007047	0.8113
6:31337671	0.00709	1.4077
6:32331998	0.007093	0.7217
6:30438226	0.007099	0.8127
6:31255286	0.007157	0.8403
6:32208324	0.007178	0.8299
6:32177900	0.007192	0.8252
6:32822858	0.007207	0.7383
6:32357165	0.007211	0.7437
6:31315120	0.007212	0.8455
6:30782105	0.007216	0.8349

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6:31081251	0.007419	0.7403
6:31260218	0.007436	0.841
6:31330411	0.007445	1.3352
6:31272261	0.007446	1.4507
6:33004387	0.007501	1.2627
6:32208921	0.007513	0.6566
6:30791971	0.007546	0.8361
6:32626730	0.007567	0.5223
6:30786676	0.00757	0.836
6:31446796	0.007581	0.8081
6:32344973	0.007588	0.7437
6:32207483	0.00761	0.637
6:31259387	0.007633	0.8414
6:31340328	0.007661	1.4234
6:30448668	0.007673	0.815
6:29702709	0.007709	1.1787
6:30782235	0.007719	0.8362
6:31340559	0.007728	1.4241
6:31343604	0.007749	1.4078
6:32351901	0.007771	0.7438
6:31483458	0.007832	0.8421
6:30862423	0.007886	0.8077
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6:32825348	0.007975	0.7369
6:30777604	0.008069	0.8373
6:31540071	0.008122	0.738
6:31430359	0.008165	1.3297
6:31344348	0.008187	1.4063
6:31337850	0.008205	1.4174
6:30829522	0.008206	0.807
6:31095864	0.008249	1.4038
6:31671498	0.008369	0.7563
6:31013085	0.008385	0.8502
6:30782407	0.008413	0.8381
6:31345021	0.008459	1.4058
6:30778203	0.008503	0.8383
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6:32349711	0.008646	0.7444
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6:32367847	0.00919	0.7367
6:30215592	0.009315	0.8181
6:32998729	0.009325	0.8488
6:32740411	0.009423	0.6871
6:31447135	0.009436	0.8131
6:32838269	0.009535	0.7624
6:32830568	0.009559	0.7485
6:32586639	0.009563	0.7331
6:30179422	0.009639	0.7956
6:29937104	0.009703	0.7279
6:31602967	0.009779	0.8302
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6:31333303	0.01025	0.7861
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6:31688217	0.01042	0.8066
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6:30768412	0.0106	0.8419
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6:31087934	0.01073	1.4098
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6:32822269	0.01097	0.7411
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6:29935590	0.01132	0.7298
6:31274380	0.01132	0.7022
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6:31540313	0.0116	0.7306
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6:31236115	0.01213	1.4054
6:31528130	0.01222	0.754
6:29700615	0.01235	1.1754
6:31230800	0.01243	0.8318
6:29699784	0.0125	1.1774
6:31266767	0.01263	0.8443
6:31012466	0.01264	0.8573
6:32194339	0.01266	0.8181
6:30764241	0.0127	0.8072
6:32682812	0.01277	0.7882
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6:31834197	0.01284	1.4818
6:30768955	0.01286	0.8453
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6:31088579	0.01298	1.3975
6:30313268	0.013	0.7625
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6:32693506	0.01305	0.6775
6:32376746	0.01311	0.7472
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6:31085269	0.01336	1.397
6:30314116	0.01342	0.7627
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6:31228634	0.01401	0.8358
6:33034596	0.01405	0.7869
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6:32934441	0.01468	1.1584
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6:30232514	0.01539	1.1834
6:29944314	0.01548	1.286
6:31257511	0.01567	1.444
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6:32196873	0.01588	0.725
6:32192617	0.016	0.6661
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6:32942302	0.01632	1.1558
6:31528951	0.01698	0.7819
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6:31463333	0.01828	0.768
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6:30234494	0.02076	1.1746
6:30275124	0.02086	1.1752
6:32597022	0.0209	0.8229
6:30264307	0.0212	1.1749
6:31561747	0.0212	0.546
6:30142458	0.02128	0.7978
6:31778077	0.02135	1.4371
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6:32586134	0.02175	0.7394
6:29970427	0.02178	1.3326
6:31437305	0.02183	0.7168
6:32581491	0.02187	0.6356
6:29939240	0.02196	1.2441
6:32194308	0.02197	0.7382
6:32851507	0.02198	0.7686
6:32581628	0.02199	0.6803
6:32849639	0.02206	0.7696
6:30240926	0.0222	1.1723
6:31186534	0.0222	0.7269
6:31314781	0.02229	0.7656
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6:30259657	0.02279	1.1717
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6:32350454	0.02294	0.6216
6:32575983	0.02317	0.6809
6:31266730	0.02335	0.8589
6:30778786	0.02342	0.8281
6:31480398	0.02363	0.6857
6:29942126	0.02364	0.7895

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6:30773349	0.02469	0.822
6:30230128	0.02478	1.1687
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6:30787175	0.03165	0.8305
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6:31014305	0.03744	0.6024
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6:32792973	0.03745	0.732
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6:32411573	0.03845	0.6544
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6:31445476	0.03919	0.5715
6:31143694	0.03928	0.8798
6:32818774	0.03941	0.8409
6:32430508	0.03957	0.7743
6:31337633	0.03958	0.5244
6:32914297	0.0396	0.7754
6:32367604	0.03968	0.7926
6:31143511	0.03969	0.8809
6:31915614	0.03973	0.6668
6:32358163	0.03973	0.6942
6:31206979	0.03976	0.8601
6:30897774	0.0398	0.88
6:30196980	0.04006	0.8314
6:31106268	0.04028	0.8743
6:31272392	0.04055	1.3432
6:31445564	0.04066	0.5723
6:31340449	0.04072	1.5133
6:32380892	0.04075	0.8453
6:31356960	0.04091	0.5087
6:32723614	0.04105	0.5893
6:31371355	0.04109	1.5156
6:32817130	0.04115	0.8415
6:30823760	0.04262	0.792
6:30080231	0.04281	0.7938
6:32769575	0.04282	0.7863
6:32732890	0.04306	0.5897
6:32165444	0.04307	0.8314
6:31313556	0.04328	0.7058

6:32782582	0.04386	0.7784
6:32219838	0.04388	0.8285
6:31176921	0.0439	0.7762
6:31522669	0.04402	0.745
6:32755087	0.04448	0.7762
6:31265940	0.04452	0.8737
6:32583405	0.04455	0.742
6:31199573	0.0447	0.8187
6:32367515	0.04525	0.7943
6:32784753	0.04576	0.7789
6:31266387	0.04618	0.8746
6:32784073	0.04635	0.7791
6:31206920	0.04647	0.864
6:31266361	0.04662	0.8749
6:32755034	0.04702	0.7785
6:30446055	0.04711	0.7765
6:32582796	0.04715	0.743
6:32784620	0.04716	0.779
6:30749712	0.0474	0.8746
6:31346445	0.0475	1.3776
6:31543758	0.04752	0.6872
6:32938049	0.04811	0.7846
6:30920957	0.04825	0.8464
6:32936441	0.04842	0.7848
6:31678774	0.04861	0.6192
6:31350505	0.04862	0.4925
6:32975014	0.04868	0.8801
6:31117075	0.04896	0.8799
6:30757575	0.04915	0.8755
6:31107187	0.04924	0.7576
6:32718620	0.04946	0.559
6:32345131	0.04963	0.6977
6:30388701	0.04965	1.2708
6:32362075	0.05015	0.6978
6:30993499	0.05031	1.1274
6:32776583	0.05038	0.7881
6:32367927	0.05069	0.7952
6:31082404	0.05076	0.8814
6:32852647	0.051	0.8012
6:30754540	0.05125	0.8766
6:30753146	0.05142	0.8766
6:30436681	0.05146	0.7752
6:32754781	0.05149	0.7836

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6:31465917	0.05189	0.691
6:31347643	0.05196	0.753
6:32365707	0.0522	0.797
6:31506691	0.05223	0.7869
6:31665194	0.05231	0.8129
6:30756596	0.05232	0.8771
6:30758348	0.05238	0.8771
6:30755320	0.05243	0.8772
6:31172044	0.05248	0.8365
6:31346902	0.05254	0.7218
6:31635710	0.05255	0.8569
6:30756593	0.05268	0.8773
6:30755893	0.05274	0.8773
6:31346822	0.05277	0.7218
6:30755744	0.05289	0.8774
6:30755863	0.05289	0.8774
6:32365896	0.05344	0.7961
6:30756744	0.05387	0.8778
6:30756140	0.05394	0.8779
6:32366625	0.05431	0.7963
6:32853042	0.05438	0.8036
6:31336757	0.0545	0.7637
6:30752184	0.05468	0.8782
6:31437617	0.05473	0.7552
6:31437506	0.05479	0.7553
6:32900642	0.05553	0.7992
6:32429894	0.05611	0.8234
6:32765302	0.05619	0.7895
6:31002616	0.05624	0.8155
6:30756822	0.05652	0.8789
6:32752685	0.05663	0.7887
6:32783896	0.05679	0.7789
6:32777150	0.05686	0.7895
6:32777900	0.05686	0.7895
6:32586782	0.05698	0.748
6:32770808	0.05703	0.7896
6:32959160	0.05706	1.1211
6:31196295	0.05728	0.8727
6:32769204	0.05736	0.7896
6:32753654	0.0575	0.7882
6:31269701	0.05792	1.3496
6:32362182	0.05798	0.7008

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6:32265528	0.05823	0.7812
6:31043249	0.05841	0.5712
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6:32361035	0.05879	0.7007
6:31317024	0.05891	0.7342
6:32362408	0.05903	0.7007
6:31318024	0.05907	0.737
6:32358459	0.05938	0.7008
6:31141523	0.05939	0.8762
6:32361613	0.0594	0.7008
6:31334945	0.05955	0.7617
6:31317382	0.05981	0.7376
6:31199208	0.0599	0.8734
6:32653070	0.0601	0.8714
6:31193155	0.06011	0.782
6:31090552	0.06076	0.8843
6:32718602	0.06091	0.5616
6:31192963	0.06116	0.7884
6:32741002	0.06164	0.7925
6:29721146	0.06169	0.773
6:32709964	0.06188	0.6307
6:31080859	0.06244	0.8099
6:31262438	0.06259	0.8835
6:31192192	0.06267	0.8644
6:32743138	0.06268	0.7932
6:32754430	0.06268	0.7932
6:32754949	0.06307	0.7935
6:32752647	0.06312	0.7935
6:32752150	0.06326	0.7936
6:32752649	0.06327	0.7937
6:32756857	0.06369	0.7939
6:32748021	0.06413	0.7942
6:32751370	0.06413	0.7942
6:32751555	0.06413	0.7942
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6:32754516	0.06413	0.7942
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6:32752436	0.06447	0.7945
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6:32911127	0.06521	0.7995
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6:32915797	0.06613	0.791
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6:32769926	0.06714	0.7849
6:32823567	0.06723	0.7869
6:29731635	0.06728	0.7756
6:32769663	0.06739	0.7846
6:30756361	0.06763	0.8834
6:31480272	0.06862	0.6291
6:30921364	0.06873	0.8634
6:29773158	0.06882	0.7207
6:32255417	0.06882	0.5711
6:31161229	0.06918	0.867
6:32362217	0.06936	0.7038
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6:32796653	0.06999	0.7155
6:32668946	0.07001	0.8345
6:32945466	0.0701	0.7938
6:32677397	0.07012	0.6087
6:31317291	0.0704	0.7463
6:32361694	0.07047	0.7128
6:32792659	0.07068	0.8
6:32279532	0.07094	0.5719
6:31112737	0.07158	0.8739
6:30904714	0.07207	0.8547
6:32361223	0.07225	0.7133
6:31610479	0.07227	0.8626
6:30823630	0.0727	0.8548
6:31266208	0.0727	0.891
6:32297209	0.07279	0.5725
6:32361566	0.07283	0.7134
6:32212985	0.07304	0.7791
6:29949821	0.07318	1.1142
6:31619576	0.07322	0.8628
6:31070664	0.07338	0.575
6:31105310	0.0734	0.8587
6:30825741	0.07345	0.8556
6:31380449	0.07401	0.8954
6:31122482	0.07407	0.8709

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6:31071645	0.07433	0.5263
6:32760318	0.07447	0.8021
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6:31084435	0.07503	0.8897
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6:31020152	0.07521	0.8247
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6:30445476	0.07596	0.799
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6:32592737	0.07601	1.3024
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6:31192766	0.07614	0.6762
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6:31121945	0.0763	0.8716
6:32361080	0.07652	0.7145
6:31130593	0.07676	0.898
6:32835258	0.07684	0.7824
6:32360955	0.07694	0.7146
6:31417456	0.07708	0.8441
6:32789480	0.07757	0.7162
6:32794676	0.07767	0.7182
6:30413907	0.07784	0.7985
6:31218038	0.07808	0.5738
6:30899571	0.0781	0.8581
6:30902181	0.07818	0.8584
6:31081052	0.07827	0.8081
6:32781776	0.07856	0.776
6:31087354	0.07862	0.8914
6:30434900	0.0787	0.7734
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6:33048380	0.08038	1.1699
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6:30902009	0.08304	0.8603
6:30901926	0.0832	0.8603
6:31023186	0.08346	0.8397
6:30394628	0.08354	0.8369
6:30228138	0.08383	1.2402
6:31029918	0.08419	0.8399
6:30867958	0.08463	0.8609
6:32188603	0.08475	0.8099
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6:31591808	0.08552	0.8688
6:31238822	0.08558	1.356
6:31601843	0.08564	0.8683
6:31038593	0.08578	0.8377
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6:33041064	0.0863	1.1679
6:30231224	0.08642	0.8567
6:32913246	0.08655	0.8166
6:31346937	0.08656	0.8703
6:30849822	0.08712	0.862
6:31261276	0.08717	1.3458
6:31119422	0.08735	0.8495
6:31543101	0.08765	0.7628
6:29768344	0.08846	0.8118
6:32785515	0.08862	0.7416
6:31052684	0.08869	0.8309
6:32796521	0.0894	0.722
6:32796226	0.08971	0.72
6:31261185	0.08974	1.3446
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6:31031381	0.09109	0.8384
6:31050244	0.09117	0.8335
6:31240884	0.09123	1.3419

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6:31016978	0.09139	0.8273
6:31028920	0.09174	0.8409
6:30774474	0.0919	0.8621
6:31271141	0.09191	1.1938
6:31272209	0.09228	1.1927
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6:31272463	0.09301	1.193
6:31042608	0.09315	0.8385
6:31031696	0.09348	0.841
6:31089631	0.09351	0.8014
6:31851354	0.09355	0.7543
6:31037794	0.09382	0.841
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6:31039252	0.09429	0.8411
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6:32609789	0.09592	1.2772
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6:31265262	0.09693	1.3531
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6:30204526	0.09706	0.8267
6:31298515	0.09712	1.2059
6:31042306	0.09716	0.8393
6:31257625	0.09728	1.3407
6:31088922	0.09731	0.8034

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6:31259579	0.0975	1.3412
6:31259930	0.0975	1.3412
6:29834449	0.09766	1.1175
6:30246212	0.0977	1.2663
6:31272157	0.09779	1.1902
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6:31254088	0.09789	1.3421
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6:31804610	0.09795	0.7679
6:30976219	0.09804	0.7352
6:31086997	0.09846	0.8036
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6:30293186	0.09869	1.2621
6:32782387	0.0989	0.8173
6:32029183	0.09891	0.8232
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6:29796640	0.1011	1.1689
6:31187075	0.1011	0.8916
6:31252925	0.1012	0.8566
6:32797361	0.1014	0.7118
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6:29701564	0.1017	0.7897
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6:31033509	0.1019	0.84
6:32987110	0.1019	1.1047
6:31489644	0.1022	0.9011
6:31388214	0.1025	0.9041
6:31047160	0.103	0.833

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6:29703262	0.1033	0.7902
6:30059616	0.1035	1.1421
6:30321189	0.1042	0.8476
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6:29975453	0.1049	1.1024
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6:29702510	0.1062	0.7908
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6:31272030	0.1201	0.5646
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6:29699156	0.1222	0.7688
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6:30359293	0.1227	0.8481
6:32719666	0.1227	0.5754
6:31155670	0.1228	0.8756
6:31542476	0.1229	1.1291
6:33050036	0.123	1.1277
6:30055179	0.1231	0.7673
6:32720302	0.1232	0.5797
6:31155186	0.1233	0.8757
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6:30093137	0.1237	0.8947
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6:32714603	0.1246	0.5769
6:32714516	0.1248	0.576
6:32715722	0.1248	0.576
6:32718452	0.1248	0.576
6:32717024	0.1249	0.5759
6:31256753	0.125	0.7411
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6:31417396	0.1284	0.8719
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6:32679992	0.1308	1.2644
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6:30208364	0.1314	1.3143
6:31232543	0.1315	0.6301
6:32715653	0.1315	0.5771
6:31254604	0.1318	1.2929
6:31077646	0.132	0.6943
6:32782605	0.1322	0.7681
6:31188654	0.1324	0.7395
6:30222020	0.1344	1.311
6:30347306	0.1344	0.8493
6:29723674	0.1346	0.9101
6:31269323	0.1347	1.2902
6:31079440	0.1351	0.798
6:29963065	0.1355	1.0938
6:30208902	0.1357	1.3098
6:31005432	0.1359	0.8264
6:31308630	0.136	0.8348
6:31124491	0.1361	0.793
6:31107733	0.1366	0.8919
6:31124211	0.1368	0.7933
6:31273703	0.1368	1.2895
6:30936014	0.1372	0.8341
6:32802820	0.1374	1.0954
6:32409996	0.1376	0.7032
6:31184462	0.1382	0.9022
6:30209977	0.1389	1.3069
6:30212504	0.139	1.3076
6:31113214	0.1399	0.8927
6:31930351	0.1406	0.7844
6:31917291	0.141	0.6877
6:31244520	0.1412	0.6413
6:29967302	0.1415	1.0924

6:30872274	0.1415	0.7254
6:31118511	0.1417	0.8931
6:33003065	0.1422	0.901
6:31081205	0.1426	0.8856
6:31261514	0.1431	0.7967
6:31258096	0.1435	1.2836
6:31272321	0.1439	1.1806
6:30848253	0.1449	0.8893
6:32021130	0.1451	0.8207
6:31237354	0.1454	0.7912
6:31023203	0.1455	0.8094
6:31271070	0.1456	0.5732
6:32917544	0.1457	0.8659
6:31001143	0.1462	0.8042
6:31139131	0.1463	0.7974
6:32193678	0.1468	0.7164
6:31043230	0.147	0.8034
6:31060953	0.147	0.8033
6:32654640	0.147	0.9001
6:33001488	0.148	0.9025
6:32978178	0.1491	1.1112
6:31327064	0.1494	0.7621
6:31119589	0.1498	0.9063
6:31238793	0.1498	1.2883
6:31936057	0.1498	0.8231
6:30857542	0.1499	0.891
6:31182536	0.1503	0.9052
6:32787570	0.1504	0.7253
6:30858254	0.1507	0.8912
6:31147094	0.1507	0.5263
6:32743000	0.1511	0.7796
6:30855251	0.1512	0.8913
6:32988695	0.1515	1.0957
6:32744347	0.1517	0.7797
6:30825287	0.1518	0.8426
6:31815723	0.152	0.8052
6:32741918	0.1522	0.7798
6:31177034	0.1525	0.9055
6:31243170	0.1525	1.2029
6:32689529	0.1526	0.8348
6:31178943	0.1533	0.9058
6:32984231	0.1536	1.2472
6:32995863	0.1536	1.2242

6:32788707	0.1537	0.7248
6:32019769	0.1551	0.8256
6:33006869	0.1553	0.9042
6:30362961	0.1564	1.1262
6:31255500	0.157	0.6187
6:32900787	0.1583	0.8837
6:31431691	0.1584	0.8368
6:30986040	0.1595	0.6994
6:31002101	0.1598	0.8302
6:33005208	0.1598	0.9052
6:30983348	0.1603	0.6996
6:31271630	0.1604	0.5772
6:33005273	0.1606	0.9054
6:30209836	0.1607	1.2889
6:30735105	0.161	0.8918
6:32289423	0.1612	0.7365
6:30041559	0.1613	1.0882
6:31762311	0.1617	0.7316
6:31271775	0.1619	0.5776
6:30740680	0.1621	0.8892
6:31179014	0.1621	0.9077
6:32399286	0.1623	0.7456
6:32710307	0.1623	0.4476
6:31271220	0.1628	0.8389
6:29717380	0.1631	0.8878
6:29831532	0.1631	0.7796
6:31273146	0.1635	0.8391
6:32046275	0.1637	0.8285
6:30042057	0.1641	1.1825
6:30870763	0.1642	0.8946
6:30888617	0.1648	0.6601
6:31102884	0.1652	0.9189
6:31007081	0.1658	0.7984
6:31259531	0.166	0.586
6:31066671	0.1663	0.7316
6:31271601	0.1663	0.5838
6:32357274	0.1665	0.7294
6:31269382	0.167	0.8403
6:31437566	0.167	0.704
6:31256050	0.1674	1.2657
6:31265565	0.1675	1.2682
6:31270951	0.1675	0.8405
6:31075161	0.1677	0.6975

6:32862475	0.1677	1.3053
6:29714413	0.168	0.92
6:32793523	0.1681	0.7368
6:31257012	0.1685	0.5795
6:31273301	0.1688	0.5799
6:32791299	0.169	0.7336
6:29726550	0.1701	1.0859
6:31448976	0.1704	0.8738
6:29829655	0.1705	0.7829
6:30899577	0.1706	0.6615
6:33050394	0.1709	1.1133
6:31736065	0.1718	0.804
6:32052983	0.1718	0.8261
6:32315486	0.1718	0.726
6:29715762	0.172	0.9207
6:32584237	0.1724	0.4275
6:30871185	0.1727	0.8967
6:32689362	0.1731	0.5102
6:33053396	0.1733	1.099
6:33050325	0.1734	1.1126
6:30871000	0.1735	0.8969
6:30736402	0.1736	0.8919
6:30865115	0.1736	0.8969
6:30867666	0.1736	0.8969
6:30869593	0.1736	0.8969
6:31271226	0.1742	0.5952
6:31274693	0.1742	0.7632
6:30041509	0.1743	1.178
6:31272421	0.1752	0.5815
6:30875664	0.1757	0.8973
6:31237703	0.1758	0.9131
6:29724939	0.176	0.9213
6:31271195	0.1761	0.5818
6:30899746	0.1764	0.8922
6:33054861	0.1764	1.0983
6:31264922	0.1766	0.582
6:31126232	0.1767	0.8579
6:31944851	0.1769	0.8159
6:31256561	0.1772	0.5822
6:32123639	0.1772	0.8846
6:30895990	0.1775	0.892
6:30877054	0.1776	0.8925
6:31257376	0.179	0.5827

6:31271662	0.1791	0.5827
6:32814975	0.1792	0.8882
6:30757491	0.1793	0.8993
6:30865725	0.1794	0.8929
6:30738042	0.1795	1.3367
6:31807540	0.1803	0.8702
6:31258687	0.1804	1.25
6:31255434	0.1805	0.5832
6:31935567	0.1807	0.8025
6:30444357	0.1811	1.0879
6:31272322	0.1815	0.5834
6:31272396	0.1815	0.5834
6:30875145	0.1816	0.8987
6:31272122	0.1816	0.5837
6:31273224	0.1817	0.5835
6:29725321	0.1818	0.9222
6:30713808	0.1819	0.8897
6:32434314	0.1824	1.2349
6:31273422	0.1826	0.5834
6:31273595	0.1826	0.5837
6:31068026	0.1831	0.6918
6:30769565	0.1833	0.8938
6:31272853	0.1834	0.5832
6:30861225	0.1838	0.8938
6:30979910	0.1839	0.7239
6:31272447	0.1843	0.5842
6:30792270	0.1851	0.8912
6:30877202	0.1851	0.8995
6:32814659	0.1852	0.8896
6:31379109	0.1854	0.9139
6:32687358	0.1854	0.4711
6:32688288	0.1856	0.4713
6:30875280	0.1858	0.8996
6:31264912	0.1859	0.5847
6:31273455	0.1859	0.5847
6:30878919	0.1863	0.8997
6:31093482	0.1863	0.9179
6:30875622	0.1864	0.8998
6:32862682	0.1866	0.8588
6:31255541	0.1868	0.5853
6:31256591	0.1869	0.585
6:31259854	0.1869	0.585
6:30348090	0.1871	1.117

6:30905313	0.1877	0.9192
6:32685648	0.1879	0.4758
6:32685673	0.1879	0.4757
6:31313482	0.188	0.462
6:30878769	0.1882	0.9002
6:31147194	0.1882	0.9067
6:30980582	0.1883	0.7248
6:31079894	0.1884	0.7002
6:32796480	0.1885	0.7401
6:32922459	0.1895	0.8767
6:30986527	0.1902	0.725
6:31335566	0.1905	0.9041
6:31382690	0.1907	0.9149
6:32688779	0.1907	0.4731
6:31080899	0.1911	0.7138
6:30327753	0.1915	1.1163
6:32804219	0.1917	1.0861
6:30859520	0.1921	0.8957
6:31868938	0.1921	0.5816
6:32977535	0.1925	1.1127
6:30792235	0.1927	0.8932
6:30362995	0.1936	1.1138
6:31234150	0.1938	0.8169
6:33051683	0.1938	1.0895
6:30397089	0.194	0.8316
6:31259137	0.194	0.5698
6:31080432	0.1941	0.7106
6:31273562	0.1943	0.5669
6:30790481	0.1944	0.8937
6:31081635	0.1948	0.8715
6:32684468	0.1948	0.5792
6:30734080	0.195	0.9077
6:32803840	0.1955	1.082
6:32704523	0.1957	0.4742
6:32707360	0.1963	0.4744
6:29716901	0.1965	0.9248
6:30331027	0.1966	1.1145
6:30990490	0.1966	0.7431
6:32400344	0.1966	0.8761
6:32705110	0.197	0.4781
6:32402705	0.1971	0.8762
6:32707783	0.1973	0.4747
6:30769687	0.1975	0.8969

6:32709738	0.1977	0.4749
6:32704900	0.1982	0.475
6:30979824	0.1984	0.727
6:30397840	0.1985	0.8324
6:30068195	0.1986	0.8452
6:32975381	0.1992	1.0954
6:30790759	0.1993	0.8945
6:32980031	0.1996	1.2307
6:31379377	0.1998	0.9166
6:32989477	0.1998	1.2219
6:30319930	0.1999	0.8481
6:31127562	0.2	0.9095
6:31232125	0.2	0.8193
6:30790807	0.2001	0.8947
6:31009055	0.2001	0.8874
6:32743103	0.2001	0.654
6:30981715	0.2003	0.7271
6:29945620	0.2004	1.1416
6:30035485	0.2004	0.805
6:30932068	0.201	0.892
6:30874165	0.2011	0.9029
6:31340611	0.2011	0.9078
6:33053307	0.2012	1.0872
6:33051139	0.2013	1.0872
6:30569489	0.2015	1.1082
6:30411089	0.2018	0.8325
6:32692780	0.2021	0.4839
6:31336100	0.2023	0.9119
6:32804217	0.2023	1.084
6:30731633	0.2024	0.9092
6:31245911	0.2024	0.8209
6:32690157	0.2024	0.484
6:32992077	0.2024	1.1714
6:30115204	0.2026	0.8711
6:32698026	0.2026	0.4841
6:33052803	0.2026	1.0867
6:30792867	0.2027	0.8956
6:31240988	0.2029	0.5889
6:30730960	0.2032	0.9093
6:30986396	0.2032	0.7277
6:31340630	0.2035	0.9082
6:30698541	0.2039	0.8993
6:30986079	0.2039	0.7278

6:30986264	0.2039	0.7278
6:30983296	0.204	0.7264
6:30987327	0.2041	0.7278
6:32798795	0.2041	1.0809
6:30989770	0.2042	0.7278
6:31241737	0.2045	0.5897
6:30788195	0.2046	0.896
6:33050877	0.2047	1.0865
6:33051051	0.2048	1.0865
6:33053682	0.2051	1.0863
6:33053942	0.2052	1.092
6:30064702	0.2057	0.8466
6:30792364	0.2057	0.8962
6:33052768	0.2064	1.086
6:33052986	0.2064	1.086
6:33053723	0.2064	1.086
6:30986705	0.2066	0.7283
6:32345283	0.207	0.682
6:30791561	0.2071	0.8965
6:30986491	0.2073	0.7284
6:32685685	0.2073	0.4839
6:32577380	0.2076	0.9083
6:33053248	0.2079	1.0857
6:33054807	0.2079	1.0857
6:30423223	0.2081	0.8333
6:33053399	0.2081	1.0857
6:31675501	0.2086	0.8302
6:30409037	0.209	0.8334
6:30573842	0.209	1.1066
6:30986504	0.2092	0.7288
6:30406756	0.2098	0.8336
6:31448862	0.2098	0.8627
6:30412504	0.2101	0.8336
6:30414919	0.2101	0.8336
6:30417704	0.2102	0.8382
6:30987786	0.2104	0.8482
6:30425455	0.2107	0.8337
6:30410153	0.211	0.8337
6:30690938	0.2111	0.8228
6:30413494	0.2112	0.8337
6:30414235	0.2112	0.8337
6:30418583	0.2112	0.8337
6:30773314	0.2113	0.8974

6:32950382	0.2114	0.7739
6:32398525	0.2116	0.8801
6:30034184	0.212	0.8095
6:30426078	0.2123	0.8339
6:30428227	0.2123	0.8342
6:30427510	0.2124	0.8339
6:30423358	0.2127	0.8339
6:30424676	0.2127	0.8339
6:31409102	0.2128	0.919
6:31753526	0.2128	0.8161
6:30419926	0.2129	0.8377
6:30424074	0.2129	0.8331
6:30423187	0.213	0.8339
6:30410824	0.2138	0.834
6:30419859	0.2141	0.8341
6:32581973	0.2143	0.9099
6:32397813	0.2146	0.8809
6:31244532	0.2147	0.8261
6:32057627	0.2149	0.8378
6:33034815	0.2167	0.8865
6:30773239	0.2171	0.8988
6:31453781	0.2173	0.7366
6:32989468	0.2175	1.2126
6:32990811	0.2175	1.2126
6:30955613	0.2178	0.8164
6:32990675	0.218	1.2123
6:32981682	0.2185	1.0779
6:32986447	0.2186	1.2457
6:32072211	0.2187	0.7312
6:31171924	0.2197	0.7354
6:31206206	0.2198	0.9278
6:32657916	0.2199	1.2097
6:30423577	0.2203	0.8351
6:30987176	0.2203	0.8495
6:31269308	0.2203	0.6278
6:31749142	0.2203	0.881
6:30423370	0.2204	0.8349
6:30423279	0.2206	0.8349
6:30420907	0.2207	0.8348
6:30766244	0.2208	0.8965
6:30385618	0.221	0.8214
6:31344670	0.2214	0.921
6:33051640	0.2218	1.084

6:32675470	0.2222	1.2084
6:31730568	0.2229	0.8462
6:32802203	0.2232	1.0775
6:30419258	0.2236	0.8274
6:31173768	0.2244	0.7363
6:32989281	0.2274	1.0805
6:31512799	0.2278	0.8632
6:30924024	0.228	0.9203
6:32799157	0.2285	0.7543
6:33054890	0.2285	1.0818
6:32659582	0.2298	1.2047
6:30350660	0.2309	1.1041
6:31080704	0.2327	0.7795
6:32936373	0.2335	0.8874
6:30330341	0.2336	1.1057
6:32955029	0.234	0.7711
6:31343632	0.2359	0.913
6:30873886	0.2374	0.9097
6:32963354	0.2376	0.7727
6:30391723	0.2378	0.8375
6:31058340	0.2382	0.8906
6:30987098	0.239	0.8518
6:31129310	0.239	0.8912
6:30392248	0.2394	0.8377
6:31507447	0.2396	0.8664
6:30984404	0.2398	0.8934
6:31336568	0.24	0.9138
6:31264598	0.2402	0.899
6:31336418	0.2409	0.914
6:29695713	0.241	0.8077
6:30657043	0.2411	0.8231
6:30386027	0.2415	0.8249
6:30987211	0.2418	0.8813
6:31384792	0.2418	0.9209
6:30379965	0.2422	0.8587
6:30392406	0.2422	0.838
6:30384317	0.243	0.8242
6:31264246	0.2436	0.8996
6:30378601	0.2439	0.8249
6:30394951	0.2441	0.8367
6:32950961	0.2441	0.7758
6:30377705	0.2447	0.825
6:31265314	0.2448	0.8055

6:30385466	0.245	0.8326
6:31511705	0.2455	0.8679
6:30392160	0.2456	0.8384
6:30383675	0.2457	0.8253
6:30334339	0.2461	1.1031
6:30921882	0.2469	0.9233
6:32941214	0.2469	0.8904
6:31407643	0.2471	0.9257
6:30038647	0.2476	0.8826
6:31388601	0.248	1.1441
6:32715160	0.2487	0.4961
6:31117695	0.2488	0.8766
6:31440082	0.2492	0.9261
6:30723781	0.2495	0.89
6:32431558	0.2504	0.8353
6:30986835	0.2506	0.8822
6:31601735	0.2507	0.837
6:32961104	0.2509	0.9156
6:31593265	0.252	0.8375
6:31389839	0.2525	1.1427
6:32981647	0.2542	1.0723
6:32743298	0.2543	0.8199
6:29938025	0.2547	1.202
6:30979933	0.2547	0.8971
6:33048694	0.2552	1.0772
6:31390055	0.2561	0.9234
6:32975511	0.2563	1.1416
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6:31389809	0.2571	0.9235
6:32854697	0.2592	0.8943
6:30362999	0.26	1.1449
6:32688539	0.2602	0.4886
6:30680916	0.2609	1.095
6:32980606	0.262	1.071
6:32979609	0.2623	1.071
6:32790059	0.2635	0.7035
6:33052250	0.2642	1.0761
6:30011451	0.2661	0.853
6:32979746	0.2663	1.0703
6:30046376	0.2669	1.1228
6:30979793	0.2671	0.8989
6:31263216	0.2683	0.9047
6:32354803	0.2689	0.5996

6:30333505	0.2699	0.8924
6:30966282	0.2701	0.749
6:30983683	0.2701	0.8994
6:31433558	0.2701	1.09
6:30032522	0.2703	0.8877
6:30058988	0.2721	1.0968
6:32986573	0.2725	1.0721
6:31513559	0.2728	1.09
6:30964393	0.2729	0.7508
6:30966304	0.273	0.7496
6:33050654	0.2732	1.0749
6:30986664	0.2742	0.9004
6:32984255	0.2743	1.0719
6:32854052	0.2747	0.8965
6:33050024	0.2751	1.0747
6:31327435	0.2756	0.8099
6:32950511	0.2757	0.8859
6:31131707	0.277	1.4734
6:30987010	0.2776	0.901
6:31111174	0.278	1.473
6:32750915	0.2782	0.7644
6:30970970	0.2791	0.8187
6:30940945	0.2795	0.7532
6:32862740	0.2795	0.8643
6:31036706	0.2797	0.8635
6:32855458	0.2797	0.8948
6:30940302	0.2798	0.7532
6:32741844	0.2806	0.7611
6:30967202	0.281	0.7512
6:33053271	0.2811	1.0732
6:30896147	0.2812	0.9151
6:30960267	0.2812	0.7517
6:30941691	0.2814	0.7535
6:30946148	0.2814	0.7531
6:33050742	0.2816	1.0736
6:33050473	0.2819	1.0735
6:31440497	0.282	0.931
6:30958494	0.2822	0.7506
6:30941645	0.2823	0.7537
6:30942929	0.2825	0.7538
6:30793667	0.2827	0.9073
6:30943083	0.2828	0.7538
6:30940705	0.283	0.7539

6:30941285	0.283	0.7539
6:31330619	0.2831	0.9212
6:30947365	0.2835	0.7535
6:32321597	0.2837	0.4962
6:30697740	0.2838	0.8429
6:30716719	0.2839	0.8456
6:30599702	0.284	1.0907
6:31378510	0.2848	1.1336
6:31141127	0.2854	1.3906
6:30978717	0.2855	0.8581
6:32924061	0.2859	0.8883
6:31275174	0.2866	0.8122
6:30887972	0.2868	0.9164
6:32905086	0.2869	0.6412
6:31107031	0.2872	1.4676
6:31112354	0.2872	1.4676
6:31262869	0.2881	1.1838
6:30942387	0.2884	0.7549
6:33050045	0.2884	1.0726
6:32855275	0.2889	0.8966
6:32855366	0.2889	0.8967
6:30026236	0.2891	0.8755
6:31106516	0.2895	1.4609
6:30972202	0.2902	0.7519
6:30976781	0.2903	0.7525
6:31275163	0.2904	0.8128
6:31408265	0.2904	0.7377
6:30978196	0.2907	0.7524
6:30895680	0.2908	0.917
6:30792492	0.291	0.9088
6:30956779	0.2914	0.7524
6:32855683	0.2918	0.8973
6:30034289	0.2923	0.8758
6:30975445	0.2924	0.7526
6:30975090	0.2927	0.7527
6:30943539	0.2928	0.7557
6:30974995	0.2941	0.7529
6:30975224	0.2941	0.7529
6:30975440	0.2941	0.7529
6:30972471	0.2942	0.7531
6:30389323	0.2946	0.8447
6:30281578	0.2951	0.8561
6:32855624	0.2956	0.898

6:32856482	0.2956	0.898
6:30950589	0.2958	0.7546
6:30271792	0.2962	0.8565
6:30955929	0.2965	0.7545
6:30956215	0.2966	0.7534
6:30791533	0.2967	0.9098
6:32855347	0.2967	0.8982
6:30789665	0.298	0.91
6:30948421	0.2992	0.7393
6:30949430	0.2993	0.7425
6:30940032	0.3001	0.7531
6:33050279	0.301	1.0705
6:31511857	0.3011	1.0849
6:30786339	0.3014	0.9106
6:31440309	0.3015	0.9338
6:29723161	0.3018	1.2286
6:30279130	0.3019	0.8962
6:30795328	0.3023	0.9108
6:32982921	0.3036	1.065
6:31438794	0.304	0.8805
6:30778305	0.3045	0.9112
6:30344645	0.3048	0.9015
6:31673436	0.3051	0.8409
6:30767049	0.3061	0.9115
6:32765585	0.3076	0.8979
6:30794644	0.3078	0.9121
6:32741868	0.3087	0.8348
6:32982911	0.3089	1.0643
6:29940372	0.3102	1.0985
6:30046682	0.3106	1.112
6:30761734	0.3107	0.9281
6:33050107	0.3112	1.0698
6:31020933	0.3118	0.9176
6:32860752	0.3125	0.9008
6:30781904	0.3131	0.9128
6:29713926	0.3134	0.8907
6:29753868	0.3143	0.8672
6:31512936	0.3145	0.7707
6:31424607	0.3147	0.9051
6:30776621	0.3149	0.9134
6:29773509	0.3161	0.9368
6:29743563	0.3172	0.937
6:30185244	0.3188	0.8767

6:30777321	0.3191	0.914
6:30781151	0.3209	0.9143
6:31413000	0.321	0.6148
6:30763893	0.3217	0.9202
6:30780936	0.322	0.9145
6:31347816	0.3229	0.9369
6:31272818	0.323	0.7749
6:29718165	0.3232	0.8895
6:29830591	0.3252	1.1469
6:29713036	0.3257	1.2332
6:32984011	0.3258	1.062
6:30171922	0.3262	0.8758
6:31699573	0.3269	0.8285
6:31141954	0.3271	0.8952
6:31408004	0.3277	0.6164
6:33049979	0.3279	1.0669
6:31081434	0.3281	0.9094
6:30977205	0.3285	0.7599
6:32857966	0.3285	0.9039
6:31269348	0.3291	0.763
6:32858780	0.3296	0.9042
6:29712704	0.3298	1.2323
6:30181638	0.3301	1.1334
6:30209953	0.3302	1.1334
6:31141671	0.3313	0.8961
6:30172233	0.3327	1.1324
6:32985413	0.3332	1.061
6:32859712	0.3347	0.9051
6:31475763	0.3349	1.2361
6:30151370	0.3355	1.1318
6:32813852	0.3367	0.8757
6:31411406	0.3376	0.6189
6:32807490	0.3379	0.8944
6:31263751	0.3383	0.926
6:32813864	0.3388	0.8762
6:32813756	0.3409	0.8767
6:29927095	0.3412	1.0758
6:30193874	0.3413	1.1301
6:32109938	0.3416	0.9128
6:32755290	0.3426	0.9051
6:31264302	0.3437	0.927
6:31351887	0.3439	0.9398
6:32993266	0.3443	1.0618

6:31388522	0.3462	0.7427
6:32986677	0.3462	1.0593
6:29711747	0.3467	0.8885
6:31920873	0.3483	0.762
6:32983714	0.3495	1.0589
6:31034110	0.3514	0.8812
6:32970450	0.3514	1.0591
6:31639979	0.3518	0.8399
6:31243884	0.3523	0.9341
6:30953105	0.3532	0.9183
6:32816972	0.3541	0.8798
6:30710135	0.3544	0.6738
6:30700695	0.3545	0.6739
6:31377047	0.3547	0.9003
6:29835654	0.3573	0.8897
6:30700558	0.3574	0.6745
6:30708428	0.3603	0.6751
6:30709364	0.3603	0.6751
6:30709830	0.3603	0.6751
6:32989971	0.3604	1.0598
6:31111356	0.3617	0.7321
6:31379115	0.3633	0.9375
6:31269173	0.3657	0.9456
6:30938883	0.367	0.9177
6:33049983	0.37	1.0612
6:31410948	0.3715	0.9407
6:29849619	0.3751	0.9198
6:30048020	0.3756	0.8649
6:29808814	0.3768	1.212
6:30333380	0.3769	1.1141
6:29833948	0.3781	0.9206
6:30947042	0.3806	0.9194
6:31024808	0.384	0.892
6:29701476	0.3845	1.2004
6:31342960	0.3846	0.9381
6:31169933	0.3851	0.9186
6:32911418	0.386	0.8276
6:30169327	0.3886	0.9341
6:32369488	0.3894	0.8843
6:31546980	0.3905	1.1743
6:32916699	0.3911	0.9375
6:30339245	0.3912	1.1107
6:31111400	0.3912	0.8703

6:31263587	0.3917	0.934
6:31091328	0.3955	1.2888
6:30498864	0.3988	1.0726
6:32820043	0.3989	0.862
6:31373810	0.3994	0.8239
6:31368588	0.4003	0.8252
6:31344098	0.403	0.8242
6:32636443	0.404	0.9369
6:32767620	0.4047	0.9355
6:29746367	0.4048	0.9473
6:30532278	0.4056	1.0707
6:32430368	0.4066	0.8965
6:31347877	0.4068	0.8246
6:30714479	0.4076	0.9491
6:31024601	0.4076	0.8971
6:30441652	0.4085	1.0718
6:30172513	0.4098	0.9373
6:31383848	0.4101	0.9262
6:31336628	0.4108	0.8237
6:30907266	0.414	1.0782
6:31345535	0.4143	0.8255
6:31360389	0.4164	0.8269
6:31506801	0.4175	1.0649
6:31352040	0.4178	0.9468
6:31363489	0.4178	0.8294
6:32901934	0.4183	0.9289
6:32935361	0.4198	0.8156
6:31615167	0.4204	0.8173
6:29812559	0.4205	1.2356
6:31352328	0.421	0.8263
6:29933261	0.4215	0.8985
6:30065117	0.422	0.8642
6:31122330	0.4232	0.7586
6:31354344	0.4232	0.8265
6:29987122	0.4236	0.8763
6:30650318	0.4261	0.8952
6:32935509	0.4262	0.8146
6:29757995	0.4264	0.9486
6:30516458	0.4266	1.0674
6:32813768	0.4271	0.9118
6:32932987	0.4277	0.8166
6:32935751	0.4277	0.8166
6:32951161	0.4277	0.8166

6:30068472	0.428	0.8658
6:32934983	0.4287	0.8167
6:32635974	0.4291	0.9401
6:30128949	0.4294	0.9154
6:30127805	0.4297	0.9151
6:31342801	0.4298	0.9438
6:30063496	0.4301	1.0615
6:29925086	0.4319	0.9049
6:31352830	0.4331	0.8266
6:32893102	0.4337	0.9158
6:30062257	0.4343	0.8675
6:32978587	0.4344	0.9095
6:31342827	0.4346	0.9443
6:31344571	0.435	0.8269
6:31496915	0.4362	1.0625
6:31327371	0.4384	0.9018
6:31334174	0.4384	0.8326
6:31640227	0.4403	0.8547
6:31364105	0.4409	0.8289
6:30728360	0.4414	0.9452
6:31352748	0.4416	0.8277
6:32989244	0.4444	1.0481
6:29926128	0.4449	0.9082
6:32945625	0.4451	0.82
6:31252747	0.4456	1.1286
6:31335507	0.4456	0.8282
6:29830411	0.4462	1.0659
6:29827390	0.4463	1.0659
6:31258868	0.4468	1.1302
6:29831052	0.4475	1.0657
6:30726939	0.4481	0.9361
6:31434198	0.4482	1.0615
6:31176928	0.4487	0.9285
6:29913099	0.449	0.8591
6:31252667	0.449	1.1329
6:30056985	0.4496	0.8901
6:30057544	0.4499	0.8717
6:30154049	0.4504	0.8972
6:29821293	0.4506	0.9226
6:32814902	0.4526	0.8761
6:31170514	0.4528	0.9286
6:32804070	0.4537	0.6268
6:29831372	0.4538	1.0654

6:32815930	0.4539	0.8764
6:32901351	0.4541	0.934
6:31259902	0.4554	1.1293
6:31410408	0.4556	0.9276
6:32820137	0.4559	0.8769
6:30046939	0.4561	0.8853
6:31434111	0.4562	1.0618
6:32819968	0.4562	0.877
6:32818031	0.4567	0.8771
6:31352459	0.4573	0.8393
6:30171827	0.4581	0.9434
6:31173096	0.4594	0.9299
6:31607942	0.4594	0.8529
6:31421112	0.4597	0.9325
6:31272553	0.4599	0.8258
6:31173906	0.4605	0.93
6:32777752	0.4624	1.0904
6:31171486	0.4629	0.9304
6:31498737	0.4635	1.0588
6:32283844	0.4644	0.8978
6:30174131	0.4654	0.9446
6:31174385	0.4654	0.9307
6:31386019	0.4659	0.8567
6:29768503	0.4671	1.1954
6:31354238	0.4671	0.9219
6:30046848	0.4677	0.8882
6:31075481	0.4688	0.9542
6:31488038	0.4691	1.0583
6:31867253	0.4691	1.123
6:29698050	0.4692	0.9229
6:32817033	0.4696	0.8804
6:32279902	0.47	0.899
6:31172655	0.4705	0.9314
6:32820334	0.4719	0.881
6:32266425	0.4723	0.8995
6:32818236	0.4724	0.8811
6:30991559	0.4727	0.8714
6:31165527	0.4727	0.9318
6:32736079	0.4728	0.8784
6:31181025	0.4731	0.9322
6:31446366	0.4735	0.9036
6:30982858	0.4738	0.8198
6:32875323	0.474	0.9224

6:30256936	0.4742	0.9437
6:32636280	0.4748	0.9458
6:30988017	0.4752	0.82
6:31185803	0.4773	0.9326
6:30166266	0.478	0.9461
6:31188267	0.4792	0.9502
6:31184175	0.4798	0.933
6:29766969	0.48	0.9543
6:31180055	0.4802	0.9331
6:31180642	0.4802	0.9332
6:30045495	0.4825	0.8918
6:31158689	0.4837	0.9335
6:30342753	0.4842	0.9338
6:32657627	0.4842	1.1143
6:31105672	0.4851	1.2323
6:31050348	0.4866	0.9511
6:31245080	0.4872	0.8878
6:32102680	0.4876	0.8722
6:30285524	0.4877	0.9011
6:31192998	0.4882	0.9512
6:31347070	0.4901	0.9415
6:32851937	0.4902	0.8759
6:30045491	0.4911	0.8937
6:33053609	0.4925	1.106
6:31184425	0.4929	1.082
6:30046292	0.4954	0.8947
6:30045882	0.4959	0.8949
6:32652196	0.4962	0.9355
6:29745884	0.4971	0.9565
6:31417647	0.4976	0.8603
6:32879233	0.4992	0.9261
6:31417510	0.5021	0.8609
6:29720726	0.5025	1.1549
6:29916368	0.504	1.1136
6:32854706	0.5057	0.8895
6:30047612	0.508	0.8976
6:30047174	0.5082	0.8977
6:30028913	0.5085	0.9154
6:31416536	0.5094	0.8642
6:32914758	0.5101	0.8526
6:30120637	0.5106	0.926
6:32074804	0.5109	0.8766
6:29909797	0.5126	1.1086

6:32401327	0.5137	0.9043
6:29736995	0.5139	0.9582
6:30062058	0.514	0.9162
6:29745794	0.5147	0.9583
6:29829566	0.5152	0.9085
6:32900718	0.5158	1.0572
6:32946133	0.5162	1.0405
6:31240479	0.5173	0.895
6:30734255	0.5193	1.0716
6:29772395	0.5199	0.9573
6:32944746	0.5204	1.0402
6:29735104	0.5226	0.959
6:29944184	0.5233	1.0845
6:29957802	0.5254	0.9186
6:30025210	0.5255	0.9186
6:30719909	0.5256	0.8924
6:29963622	0.5268	0.9189
6:32802462	0.5288	0.8766
6:31425985	0.5291	0.864
6:29699253	0.5297	1.1643
6:29962268	0.5308	0.9195
6:31093914	0.532	1.2153
6:30163955	0.533	0.952
6:29703823	0.5332	1.1092
6:29993086	0.5358	0.9208
6:33005070	0.536	0.842
6:29765001	0.5361	0.9591
6:29955025	0.5364	0.9207
6:33004287	0.5368	0.8414
6:31566507	0.5378	0.8985
6:30057675	0.5385	0.921
6:29992286	0.5391	0.921
6:29956953	0.5396	0.9213
6:29704545	0.5399	1.108
6:32393150	0.5403	0.9104
6:31248568	0.5404	0.9002
6:29969040	0.5409	0.9215
6:29980073	0.5411	0.9217
6:29708028	0.5412	1.1079
6:31352232	0.5436	1.0629
6:29945508	0.5439	0.9221
6:29774856	0.5442	0.9561
6:29830505	0.5442	1.1003

6:29961631	0.5442	0.9266
6:29742108	0.5448	0.9543
6:32589095	0.5448	0.8963
6:32974843	0.545	1.0517
6:30036083	0.5456	0.9222
6:32835994	0.5476	0.9006
6:32906716	0.5479	0.8576
6:32908211	0.5479	0.8576
6:32918124	0.5479	0.8576
6:32909098	0.5497	0.8579
6:32907502	0.5507	0.8597
6:32908266	0.5507	0.8597
6:30022425	0.5512	0.9233
6:29762068	0.5514	0.9535
6:30184704	0.5527	0.9194
6:31379198	0.553	0.9491
6:32915852	0.553	0.8583
6:29945368	0.5535	0.9238
6:32682174	0.5549	0.9162
6:32844032	0.5549	0.8979
6:32911835	0.5549	0.8586
6:32911917	0.5549	0.8586
6:29742299	0.5556	0.9574
6:29945741	0.5559	0.9243
6:30030057	0.5564	0.9244
6:30030135	0.5564	0.9244
6:30005043	0.557	0.9245
6:29942866	0.5571	0.9245
6:32202597	0.5573	0.9343
6:31085770	0.5577	0.9343
6:30036269	0.558	0.9246
6:29950583	0.5582	0.929
6:29985325	0.5584	0.9248
6:30033690	0.5584	0.9247
6:31651194	0.5588	1.0921
6:29988740	0.559	0.9249
6:30044914	0.56	0.925
6:29987738	0.5614	0.9253
6:30061293	0.5614	0.9251
6:29966175	0.5616	0.9253
6:29970685	0.5616	0.9253
6:29967529	0.5627	0.9255
6:30039662	0.5638	1.0548

6:30039845	0.564	1.0548
6:29979125	0.5642	0.9258
6:31244475	0.5655	0.9449
6:32785275	0.5662	0.9377
6:30046752	0.5668	0.9262
6:32984451	0.567	0.9651
6:32713267	0.5674	0.9407
6:32372032	0.568	1.117
6:29980445	0.5689	0.9267
6:29967999	0.5711	0.927
6:31245476	0.5715	0.9457
6:29991538	0.5717	0.9271
6:30036528	0.5719	0.8266
6:30040810	0.5721	1.0537
6:32711178	0.5723	0.9063
6:31027516	0.5728	1.0513
6:29975587	0.5735	0.9275
6:31245508	0.5742	0.9461
6:30039901	0.5743	1.0533
6:32785035	0.5771	0.9394
6:30039484	0.5776	0.9281
6:32785029	0.5813	0.94
6:30267886	0.5814	0.9235
6:30410206	0.5823	1.0454
6:29979579	0.5828	1.0521
6:30004052	0.583	1.0521
6:30666594	0.5831	0.7875
6:29793724	0.5839	1.0561
6:29818662	0.5841	1.0901
6:30260982	0.5842	0.9228
6:32954634	0.5844	1.034
6:32811366	0.5859	0.9117
6:29769829	0.5895	0.9645
6:29820586	0.5895	1.0867
6:29819077	0.5899	1.0802
6:29969973	0.5901	0.9305
6:31246015	0.5902	0.9483
6:31078615	0.5911	0.9676
6:29988439	0.5924	0.931
6:32905853	0.5927	0.8807
6:30007493	0.5943	0.9351
6:31439958	0.5947	0.9628
6:30041009	0.5952	1.0504

6:31410597	0.5957	0.9596
6:32905685	0.5981	0.8814
6:29913969	0.5999	0.9537
6:33016728	0.6003	1.0346
6:30633875	0.6007	1.0694
6:31925697	0.6008	1.0832
6:29785235	0.6014	1.0662
6:31246676	0.6038	0.9502
6:29711041	0.6046	0.8816
6:29773999	0.6048	0.9643
6:30716117	0.6055	1.1312
6:30025759	0.6062	0.9372
6:31243347	0.6085	0.9615
6:30328753	0.6092	0.9274
6:31245309	0.6097	0.9507
6:30296071	0.6098	0.9518
6:29821982	0.6121	1.0824
6:31344238	0.6131	1.0523
6:32961387	0.6143	1.0313
6:31351090	0.6149	0.9272
6:29932666	0.6152	1.0416
6:30041708	0.6184	1.0675
6:30151954	0.6188	0.9322
6:33047898	0.6197	1.0566
6:29968275	0.6218	0.9399
6:29958674	0.6221	0.9355
6:32788137	0.6221	0.9556
6:31443844	0.6226	0.9459
6:32795032	0.6246	0.9494
6:30159266	0.6255	0.9335
6:30544401	0.6258	0.946
6:30001770	0.6288	0.941
6:30002860	0.6288	0.941
6:30168301	0.6293	0.9341
6:30170699	0.6293	0.9341
6:33016087	0.6322	1.0314
6:30055933	0.6345	0.9369
6:31242445	0.6345	1.0722
6:29809194	0.6354	0.9523
6:31062133	0.636	0.908
6:31091992	0.6369	0.8939
6:31691657	0.6369	0.9045
6:30077135	0.638	1.0573

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6:31274027	0.639	1.1403
6:32992424	0.6398	0.8877
6:32983260	0.6422	0.89
6:32983584	0.6422	0.89
6:29767611	0.6424	1.0896
6:32983904	0.6425	0.8902
6:29966620	0.6427	0.9395
6:29968764	0.6427	0.9403
6:32988293	0.6443	0.8913
6:32989175	0.6449	0.8909
6:32372321	0.6456	1.0551
6:29933000	0.6478	1.0377
6:30031345	0.6485	0.9592
6:31099577	0.6485	0.9481
6:29706691	0.649	0.9091
6:33024908	0.6541	0.9602
6:31001166	0.6546	0.9605
6:31058627	0.6548	0.9053
6:30511170	0.6568	1.0513
6:31060115	0.657	0.9071
6:31075115	0.6588	0.9092
6:31059900	0.6591	0.9075
6:31060162	0.6591	0.9075
6:31061439	0.6591	0.9075
6:30986554	0.6596	1.0811
6:33005932	0.6598	0.9677
6:30026350	0.6602	0.9417
6:31077938	0.661	0.9096
6:31073903	0.6613	0.9097
6:31059386	0.6616	0.9081
6:30311932	0.6621	0.9335
6:31062363	0.6627	0.9087
6:29813942	0.6628	0.956
6:32372396	0.6649	1.053
6:31075375	0.665	0.9103
6:32372007	0.6651	1.0527
6:32372328	0.6651	1.0527
6:32372112	0.6658	1.0524
6:29806622	0.666	0.9565
6:32372236	0.666	1.0521
6:32983765	0.6662	1.0549
6:32373185	0.6664	1.0521

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6:30044827	0.6691	1.0373
6:31068420	0.6735	0.9119
6:31384479	0.6748	0.949
6:32672624	0.676	0.9606
6:33008546	0.6778	0.9478
6:29988642	0.6785	0.9506
6:29733223	0.6796	0.9727
6:29823027	0.6796	1.0626
6:31448818	0.6804	0.9524
6:32359821	0.6805	0.8956
6:32988588	0.6805	0.9547
6:31448653	0.6826	0.9527
6:29830074	0.6848	1.0763
6:32787310	0.6856	0.9478
6:29820717	0.6857	1.0617
6:29694680	0.686	1.0634
6:33017457	0.6877	1.0353
6:31042217	0.6885	0.9738
6:32971708	0.6896	0.9574
6:31540556	0.69	0.973
6:30141204	0.6902	0.947
6:32981848	0.6911	1.0973
6:31442137	0.6912	0.9612
6:31256746	0.692	1.0588
6:29937242	0.6924	0.9615
6:29762693	0.6929	0.974
6:32783387	0.694	0.9249
6:31259338	0.6943	1.0585
6:32981937	0.6952	1.0924
6:32026808	0.6961	0.9453
6:29812834	0.6963	0.9605
6:29800142	0.6964	0.9607
6:32421798	0.6969	1.0437
6:29828493	0.6971	1.06
6:29828886	0.6971	1.06
6:29829577	0.6971	1.06
6:29823994	0.6975	1.06
6:30206186	0.6983	0.9468
6:32737507	0.6983	0.9538
6:29823319	0.6985	1.0595
6:30900435	0.6987	1.0738
6:29828916	0.6996	1.0596

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6:32338326	0.7013	0.9065
6:29831008	0.7015	1.0594
6:30119890	0.7023	0.9561
6:29780529	0.7029	0.9749
6:29812030	0.7032	0.9614
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6:31446557	0.7037	0.9556
6:30194917	0.7056	0.9486
6:31266335	0.7065	1.0558
6:32730940	0.7073	0.9569
6:29691303	0.7081	1.0556
6:29932433	0.7085	0.9509
6:31261983	0.7095	1.0552
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6:31259837	0.7108	1.055
6:31260040	0.7108	1.055
6:30211782	0.7112	1.0843
6:29739906	0.7123	0.9757
6:29827788	0.7129	1.0576
6:32782149	0.7129	0.9522
6:29997312	0.7136	0.9509
6:30209099	0.7142	1.0836
6:32792693	0.7143	1.0762
6:30213924	0.7145	1.0835
6:29765291	0.7146	0.9759
6:31261492	0.7153	1.0541
6:29776322	0.7165	0.976
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6:29696849	0.7207	1.0546
6:30794617	0.722	1.0264
6:29736229	0.7222	0.9765
6:30211660	0.7223	1.0791
6:30211755	0.7228	1.079
6:29736601	0.7233	0.9767
6:31260105	0.7234	1.0524
6:29693499	0.7237	1.0534
6:29768123	0.7242	0.9545

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6:30213936	0.7253	1.0778
6:31063233	0.7257	0.9281
6:29929253	0.7263	1.083
6:29696245	0.7267	1.0529
6:29809382	0.7301	0.9645
6:32985199	0.7303	1.0289
6:32788511	0.731	0.9241
6:29928649	0.7321	1.0816
6:33025044	0.7349	0.9699
6:32997674	0.7351	1.0218
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6:29979797	0.7445	0.9611
6:30081189	0.7452	0.9688
6:31735631	0.7452	0.9164
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6:31717696	0.7473	0.9201
6:29828880	0.748	1.0433
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6:29931798	0.751	0.9618
6:31243830	0.7519	0.8978
6:32787119	0.7535	0.9406
6:31702710	0.7541	0.923
6:29761516	0.7549	0.9787
6:32379506	0.7549	0.9136
6:30081246	0.7555	0.9711
6:30079993	0.7587	0.9714
6:32791313	0.7595	1.0643
6:32791831	0.7605	1.064
6:30066097	0.7609	1.0339
6:32998238	0.7612	1.0209
6:31374579	0.7624	0.9678
6:29835999	0.7631	1.04
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6:32793957	0.7644	1.0629
6:32793958	0.7644	1.0629
6:32793970	0.7644	1.0629
6:32794119	0.7644	1.0629
6:31259834	0.7657	1.044
6:31384431	0.767	1.0513

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6:30070937	0.7682	1.0297
6:33024738	0.7693	0.9688
6:29788606	0.7708	0.9776
6:32990121	0.7719	0.963
6:31846741	0.7721	0.9662
6:31112075	0.7728	0.9413
6:29782470	0.7738	0.981
6:31061013	0.7767	1.0261
6:29822174	0.7771	1.0375
6:32374382	0.7778	0.9183
6:31589735	0.7784	0.9364
6:29806341	0.7819	0.9642
6:30065298	0.7827	0.969
6:30109207	0.7831	1.0558
6:30069795	0.7844	1.0333
6:33038134	0.7851	0.9756
6:30079129	0.7871	0.9761
6:33031689	0.7874	0.976
6:32374640	0.7875	0.9216
6:31838940	0.7889	1.1063
6:29943035	0.7892	1.0221
6:33038982	0.7896	0.9761
6:30728290	0.7909	1.0183
6:32792640	0.7918	1.0585
6:30067892	0.7923	1.0322
6:30071330	0.7924	0.9819
6:33024711	0.7959	0.9725
6:33007752	0.7978	0.969
6:30294590	0.7988	0.9665
6:31029282	0.7997	1.0409
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6:29828270	0.8158	0.9702
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6:33034404	0.8252	1.0251
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6:31392906	0.8302	0.9758
6:32321554	0.8302	1.038
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6:33049309	0.8342	1.0625
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6:31140615	0.8375	1.0576
6:29745726	0.8379	0.9865
6:32381210	0.8383	0.906
6:29717826	0.8386	0.9715
6:31425033	0.8399	0.9469
6:31418124	0.8408	0.9469
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6:33035616	0.8626	1.0494
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6:30903948	0.9354	0.9865
6:32984788	0.9359	1.0083
6:31329932	0.936	0.9942
6:32969616	0.936	1.0094
6:30904535	0.9368	0.9863
6:33037768	0.9379	1.0084
6:33053577	0.9388	1.0104
6:33032975	0.9394	1.0066
6:33033894	0.9396	1.0101
6:31096575	0.9401	0.9873
6:30046246	0.941	1.0058
6:32373312	0.9433	1.0077
6:31389784	0.9448	0.9904
6:29820047	0.9458	0.9928
6:29943715	0.9465	1.0068
6:29951106	0.9481	0.9919
6:32680620	0.9483	1.0061
6:31078836	0.9488	0.989
6:33037522	0.9489	1.007
6:32797309	0.9494	0.9867
6:30078275	0.9495	0.9946
6:31079242	0.9495	0.9891
6:32678491	0.9506	1.0059
6:30081334	0.9514	0.9949
6:33014313	0.9515	0.9935
6:30079307	0.9516	0.9949
6:32653263	0.9523	0.9944

6:31058178	0.953	0.9918
6:32988049	0.953	1.0036
6:33040138	0.9538	1.0163
6:32786068	0.9548	1.0148
6:30882689	0.9581	0.991
6:31082843	0.9583	0.992
6:31082361	0.9584	0.9918
6:30080274	0.9592	0.9957
6:29935372	0.9594	1.0049
6:33049965	0.9599	1.0068
6:33026388	0.9605	0.9956
6:30102184	0.9616	0.993
6:29983538	0.9626	0.9938
6:32681530	0.963	1.0044
6:29725452	0.9634	1.0138
6:33037675	0.966	1.0048
6:32977044	0.9679	0.9953
6:32659878	0.9706	1.0129
6:31207351	0.9707	1.0031
6:32671247	0.9713	1.0034
6:33040781	0.9713	0.9959
6:32660943	0.972	1.0123
6:29698821	0.9722	0.9953
6:32669454	0.9726	1.0032
6:32669483	0.9726	1.0032
6:32671755	0.9726	1.0032
6:33038766	0.9729	0.9962
6:33039767	0.9729	0.9962
6:29726046	0.973	0.9937
6:31218889	0.973	0.9972
6:32665319	0.973	1.0032
6:33040596	0.9736	0.9963
6:31028345	0.9739	0.9973
6:32682137	0.9739	1.0031
6:33040835	0.9741	0.9963
6:31125407	0.9743	1.0039
6:32663851	0.9746	1.0105
6:31449778	0.9747	1.0023
6:31241032	0.9752	1.0031
6:33039503	0.9755	0.9965
6:32670912	0.9757	0.9971
6:32673931	0.9758	1.0029
6:33041034	0.9758	0.9966

6:33041176	0.976	0.9966
6:33041186	0.976	0.9966
6:33040798	0.9761	0.9966
6:29776360	0.9765	0.9976
6:33038369	0.9771	0.9968
6:30028831	0.9774	0.9961
6:32667107	0.9776	1.0026
6:33039848	0.9777	0.9968
6:29910663	0.9788	0.9959
6:31030425	0.9791	0.9978
6:29941400	0.9808	0.9965
6:31085824	0.981	1.0026
6:33039606	0.981	0.9973
6:29918059	0.9813	0.9965
6:31116502	0.9816	1.0028
6:33025740	0.9816	0.9979
6:29778109	0.9817	0.9981
6:33039837	0.9819	0.9974
6:29778626	0.982	0.9981
6:30882803	0.9824	0.9962
6:30078330	0.9826	1.0019
6:30610499	0.9829	1.0044
6:32666651	0.9837	1.0019
6:32666660	0.9837	1.0019
6:29808634	0.984	1.0019
6:31236250	0.9842	0.9978
6:31084170	0.9846	1.0021
6:31084639	0.9846	1.0021
6:32976654	0.987	0.9982
6:30006876	0.9872	0.9979
6:31120711	0.9873	1.0019
6:32980446	0.9879	0.9984
6:33038144	0.9881	0.9983
6:33039980	0.9884	0.9983
6:29975047	0.9893	0.9983
6:31349922	0.9898	1.0012
6:32781954	0.9905	0.9978
6:30015330	0.9907	0.9985
6:33040736	0.9915	0.9988
6:29938258	0.9926	1.0014
6:29945270	0.993	0.9991
6:30875603	0.9952	1.001
6:32781433	0.9962	0.9991

6:31051553	0.9977	0.9996
6:32373232	0.9978	1.0003
6:33037560	0.998	1.0002
6:29973910	0.9983	0.9997
6:32978997	0.9983	1.0004
6:30011934	0.9991	1.0002
6:29761522	0.9993	0.9999

MHC Meta-Analysis Results - Adjus

SNP	P-value	OR
6:32595063	5.19E-08	2.1626
6:32186245	1.51E-05	0.5901
6:32184345	2.18E-05	0.6317
6:32184574	3.11E-05	0.6354
6:32186193	3.14E-05	0.6356
6:32186872	8.95E-05	0.6519
6:32629868	0.0002113	0.6733
6:32415109	0.0002269	1.5487
6:31537606	0.0002739	1.3568
6:32411726	0.0002884	1.5377
6:32679992	0.0003028	1.7789
6:32372032	0.0003595	1.5549
6:31539767	0.0004019	1.3556
6:32592737	0.0004798	1.8595
6:33054457	0.0005431	1.2584
6:32434314	0.0005692	1.7494
6:32627700	0.0006655	0.7302
6:32414420	0.000957	1.4393
6:32413317	0.0009825	1.4328
6:33051683	0.001151	1.245
6:31513559	0.001177	1.298
6:33053682	0.001264	1.24
6:33051051	0.00127	1.2402
6:33051139	0.00127	1.2402
6:33053307	0.001303	1.2394
6:33050877	0.001304	1.2394
6:31198987	0.001305	0.7907
6:33052803	0.001315	1.2386
6:33052768	0.001332	1.2385
6:33052986	0.001348	1.2382
6:33053723	0.001354	1.2382
6:33053248	0.001371	1.2379
6:33054807	0.001371	1.2379
6:33053399	0.001375	1.2379
6:31511857	0.001391	1.2942
6:32372321	0.001449	1.4271
6:32372396	0.001488	1.4262
6:32372007	0.00152	1.425

6:32372328	0.00152	1.425
6:32602483	0.001527	0.7389
6:32372236	0.001562	1.4237
6:32373185	0.001562	1.4237
6:32372112	0.001584	1.423
6:33051640	0.001635	1.2365
6:33048694	0.001652	1.234
6:33054890	0.001677	1.2331
6:31542476	0.001788	1.3551
6:32097611	0.001788	0.6349
6:32626750	0.001846	0.6963
6:33050036	0.001911	1.2784
6:32070074	0.001937	0.6372
6:31209045	0.002009	1.2165
6:31506801	0.002228	1.2746
6:32678491	0.002252	1.3477
6:32629963	0.002277	0.7097
6:32680620	0.002287	1.3474
6:33052250	0.002294	1.2269
6:32681530	0.002357	1.345
6:32671755	0.002489	1.3438
6:32671247	0.002506	1.3434
6:32669454	0.002533	1.3431
6:32669483	0.002533	1.3431
6:32673931	0.002545	1.343
6:33053271	0.002548	1.2239
6:32667107	0.002596	1.3411
6:33050024	0.002642	1.2245
6:31496915	0.002711	1.2699
6:33050654	0.002744	1.2231
6:32665319	0.002764	1.3396
6:33050742	0.002816	1.2226
6:33050473	0.00293	1.2215
6:33050045	0.00296	1.2217
6:33050279	0.002978	1.2209
6:32421798	0.003055	1.3971
6:32666651	0.003069	1.3354
6:32666660	0.003069	1.3354
6:32654640	0.003125	1.2608
6:31208610	0.003139	1.2055
6:32670912	0.003207	1.3347

6:31498737	0.003312	1.2636
6:31488038	0.003366	1.2645
6:32653263	0.003406	1.3312
6:33050107	0.00347	1.2197
6:33050394	0.003548	1.2612
6:33050325	0.003631	1.2605
6:33053396	0.003729	1.2266
6:30718180	0.003815	0.7737
6:32682137	0.003886	1.3246
6:32666875	0.003945	1.4365
6:33054861	0.003945	1.2252
6:33049979	0.004033	1.2144
6:31273495	0.00407	1.3067
6:32596324	0.004153	0.7336
6:32635954	0.004628	1.3195
6:32666802	0.004683	1.4359
6:33048380	0.004716	1.293
6:32665728	0.004726	1.4345
6:33041064	0.004775	1.2954
6:32666822	0.004901	1.4339
6:32592200	0.005	1.5819
6:33049983	0.005042	1.2087
6:33053942	0.005169	1.2181
6:32682019	0.005429	1.3107
6:32374262	0.005523	1.3568
6:32657916	0.005982	1.6927
6:31216262	0.006056	1.1894
6:30297529	0.006214	1.2165
6:32592209	0.00636	1.5772
6:32988695	0.006455	1.1935
6:32663936	0.006561	0.7208
6:30112623	0.006567	0.7291
6:31218984	0.006856	1.186
6:32581973	0.007155	1.3169
6:32987120	0.007302	1.1808
6:31211436	0.007477	1.1841
6:32373312	0.007483	1.3426
6:32609789	0.00766	1.816
6:32987110	0.007692	1.1796
6:31273030	0.007726	1.3351
6:32657627	0.007751	1.5496

6:31218327	0.007776	1.1832
6:32986822	0.007789	1.1793
6:30196980	0.008052	0.7986
6:31888869	0.008088	0.6471
6:32985835	0.008445	1.1774
6:32777752	0.008543	1.37
6:32659582	0.008545	1.686
6:31898285	0.008776	0.6499
6:32675470	0.009253	1.68
6:30315210	0.009459	1.2054
6:32689078	0.009812	1.22
6:30080231	0.009996	0.7411
6:32373232	0.009997	1.3275
6:31890158	0.0101	0.6551
6:30302600	0.01021	1.2037
6:32105512	0.01059	0.5716
6:32672624	0.01107	1.2881
6:32102231	0.01116	0.5501
6:31154593	0.01119	0.6706
6:31124491	0.01172	0.6724
6:31220109	0.01174	1.1712
6:31124211	0.01176	0.6725
6:31012356	0.01187	0.6818
6:31510924	0.012	0.8145
6:31271141	0.01203	1.3058
6:32862475	0.01221	1.6315
6:31272209	0.01223	1.304
6:32092207	0.01238	0.5555
6:31014633	0.01248	0.6833
6:32577380	0.01266	1.3114
6:31432125	0.01312	0.8508
6:31903121	0.01328	0.6686
6:31604355	0.0134	0.5691
6:32121659	0.0134	0.5594
6:31272463	0.01376	1.2994
6:32986447	0.01426	1.4158
6:31139131	0.01433	0.6791
6:31273992	0.01456	1.2966
6:31274036	0.01456	1.2966
6:31273578	0.01468	1.2962
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6:32668105	0.01508	0.7524
6:32636280	0.0152	1.3531
6:31272157	0.01527	1.2944
6:31273366	0.01541	1.2938
6:31271157	0.01661	1.2902
6:30232514	0.01722	1.1886
6:31023840	0.01729	0.703
6:32305979	0.01786	1.4034
6:32691411	0.01839	1.1973
6:31079440	0.01847	0.6976
6:32093922	0.01865	0.6038
6:31022169	0.0187	0.7082
6:32694738	0.01907	1.1965
6:29970427	0.01922	1.3498
6:32694641	0.01952	1.1958
6:31043230	0.01956	0.7
6:31102884	0.0196	1.1628
6:31060953	0.01973	0.7003
6:32984231	0.01995	1.3905
6:30171922	0.02033	0.8095
6:31540556	0.02053	1.1782
6:30736151	0.02074	0.8121
6:32694604	0.02098	1.1928
6:32316016	0.02131	1.3929
6:30185244	0.02154	0.812
6:31928306	0.02168	0.7379
6:31919956	0.02172	0.7381
6:32626302	0.02182	1.1902
6:32626272	0.02189	1.1902
6:32289390	0.02223	1.367
6:31916951	0.02233	0.739
6:32626475	0.02234	1.1895
6:31349922	0.02244	1.2532
6:32995081	0.02245	1.4047
6:32320153	0.02251	1.3895
6:30234494	0.02305	1.1793
6:30235184	0.02321	1.179
6:32188383	0.02323	1.1753
6:30309508	0.0233	1.1787
6:31210462	0.02332	1.156
6:31023203	0.02334	0.717

6:32822186	0.02343	0.675
6:30731505	0.02374	0.8161
6:30228138	0.02383	1.3303
6:31430799	0.02421	0.8564
6:32694242	0.02421	1.1892
6:31351153	0.0247	0.8485
6:32603355	0.02473	0.6581
6:30270609	0.0251	1.1772
6:32992077	0.02531	1.3244
6:31919917	0.02577	0.7448
6:32237926	0.0259	1.3548
6:31910929	0.02601	0.7451
6:30240926	0.02608	1.175
6:32629802	0.02631	0.6613
6:31269173	0.02655	1.1526
6:30275124	0.02658	1.1754
6:31022206	0.02668	0.8531
6:31834197	0.02669	1.4279
6:32451570	0.02671	0.8456
6:30259657	0.02682	1.1743
6:32694710	0.027	1.1861
6:30264307	0.02701	1.1751
6:31208340	0.02703	1.1515
6:32635974	0.02718	1.346
6:30316739	0.02726	1.1737
6:31318144	0.0273	0.8295
6:32995863	0.02753	1.3726
6:31910162	0.02757	0.7473
6:32689414	0.02779	1.1834
6:30853796	0.02781	1.1671
6:32698457	0.02788	1.1826
6:32652196	0.02798	1.2498
6:32636443	0.02803	1.3435
6:31907147	0.02848	0.7498
6:30230128	0.02854	1.1721
6:30293789	0.02856	1.3692
6:30228938	0.02861	1.1721
6:30764420	0.02861	0.8221
6:30229922	0.02915	1.1714
6:30758555	0.02947	0.8236
6:31513402	0.02982	0.8192

6:30231108	0.02986	1.1707
6:32797309	0.02996	1.3251
6:32097891	0.02997	0.6395
6:32410576	0.03003	1.2451
6:31210216	0.03079	1.1477
6:30815035	0.03099	0.8377
6:32691919	0.03101	1.1792
6:32188603	0.03104	1.1699
6:32688804	0.03123	1.1797
6:32259527	0.03168	1.3407
6:32191457	0.03214	0.8317
6:30229830	0.03266	1.1678
6:30893941	0.03289	0.8379
6:30270080	0.03301	1.1683
6:32216147	0.03321	1.4562
6:32690276	0.03352	1.1765
6:31907168	0.0341	0.7571
6:31190977	0.03413	0.6208
6:30293186	0.03467	1.3532
6:32688728	0.03489	1.1753
6:32688730	0.03489	1.1753
6:30829522	0.03507	0.8407
6:32170433	0.03512	1.1629
6:31905328	0.03514	0.7583
6:30229990	0.03539	1.165
6:30899524	0.03561	0.8408
6:30862423	0.03627	0.8431
6:32693200	0.03649	1.1717
6:30246212	0.03671	1.3531
6:32706334	0.03738	1.1736
6:32697739	0.03749	1.1726
6:32685953	0.03786	1.1716
6:31198801	0.038	0.5674
6:30011451	0.03811	0.7391
6:31221396	0.03838	1.1625
6:31189543	0.03839	0.6227
6:31189798	0.03856	0.6227
6:32697801	0.03869	1.1714
6:31327452	0.03892	1.5476
6:31204491	0.039	0.5679
6:32189032	0.0391	1.162

6:32692919	0.03924	1.1711
6:32688617	0.0395	1.17
6:29837188	0.03961	1.1622
6:30900150	0.03971	0.8442
6:31328528	0.03975	1.5448
6:32687689	0.03998	1.1696
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6:31189006	0.04044	0.6235
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6:32697907	0.04152	1.1683
6:31005432	0.04153	0.7677
6:32688055	0.04154	1.1683
6:31186904	0.04183	0.624
6:32981682	0.04208	1.1342
6:32688343	0.04224	1.1677
6:32698047	0.04296	1.167
6:32697943	0.043	1.167
6:32693182	0.04338	1.1667
6:32383138	0.04354	1.4317
6:32070838	0.04376	0.6489
6:31323027	0.0438	1.5448
6:31610529	0.04393	0.8763
6:32692509	0.04431	1.1657
6:32698417	0.04433	1.1657
6:32698421	0.04433	1.1657
6:32690027	0.04435	1.1657
6:32692711	0.04435	1.1657
6:32693566	0.04438	1.1657
6:32695022	0.04438	1.1657
6:32695082	0.04438	1.1657
6:32692023	0.04449	1.1657
6:31610686	0.04454	0.8766
6:32698322	0.04469	1.1653
6:32702930	0.04516	1.1651
6:32688302	0.04569	1.1636
6:32692617	0.04574	1.1645
6:31844684	0.04583	0.7516
6:32699080	0.04632	1.164
6:32626730	0.04664	0.7071
6:31778077	0.04674	1.3758

6:32687588	0.04713	1.163
6:32688798	0.04721	1.1631
6:31786730	0.04739	0.7722
6:29753868	0.0475	0.7513
6:32650233	0.04885	1.2389
6:32700700	0.04888	1.1623
6:31370367	0.04914	1.2585
6:32321554	0.04953	1.4314
6:32653070	0.05015	1.2386
6:31355603	0.05032	1.5009
6:32688273	0.05032	1.1626
6:31345815	0.0508	1.4995
6:31303236	0.05141	1.1362
6:32270731	0.05152	1.4232
6:31268965	0.05165	1.2711
6:32984451	0.05216	0.8848
6:31575276	0.05249	0.7431
6:30232374	0.05251	1.3109
6:31230701	0.0526	1.4543
6:31331257	0.05355	0.8776
6:31520426	0.05434	0.8039
6:32590501	0.05473	1.3176
6:33047898	0.05532	1.2406
6:32716022	0.0556	1.1581
6:32605274	0.05574	0.654
6:31220567	0.05611	1.1488
6:32706480	0.05625	1.1581
6:31272321	0.05626	1.2541
6:32690713	0.05627	1.1566
6:31465030	0.05708	0.7902
6:32979609	0.05772	1.1252
6:31430359	0.05786	1.2303
6:31352348	0.05787	0.5936
6:31170914	0.05792	0.8828
6:32704982	0.05815	1.1568
6:32315722	0.05844	1.4087
6:30760181	0.05882	0.885
6:32980606	0.05889	1.1245
6:32692122	0.05891	1.1561
6:31176335	0.05918	0.8814
6:29789190	0.05922	1.1527

6:32592219	0.05934	1.3294
6:32981647	0.05952	1.1244
6:31274380	0.06012	0.8144
6:32979746	0.06018	1.1238
6:32302163	0.06025	1.4056
6:31607674	0.06081	0.7257
6:32706234	0.06169	1.1542
6:31651194	0.06174	1.3309
6:31347458	0.06176	0.5951
6:32989477	0.06185	1.3443
6:32713188	0.06193	1.1542
6:29786487	0.06202	1.151
6:31334477	0.06266	0.5954
6:31340449	0.06294	1.4663
6:31347213	0.06305	0.5957
6:32609126	0.06372	0.6751
6:29842172	0.06375	1.1523
6:31371355	0.06393	1.4665
6:29794049	0.06415	1.1499
6:31333499	0.06415	0.882
6:30075864	0.0645	1.1241
6:31209510	0.06462	1.1247
6:30855907	0.06499	0.8856
6:32335657	0.065	1.397
6:31340767	0.06648	0.5971
6:31338768	0.06709	0.602
6:32989468	0.06786	1.3354
6:32990675	0.06786	1.3354
6:32990811	0.06786	1.3354
6:32980031	0.06822	1.3489
6:30760698	0.0685	0.8891
6:31354387	0.06865	0.5974
6:31374579	0.06924	1.2244
6:31379168	0.06924	0.707
6:32079567	0.06962	0.7569
6:30438226	0.06963	0.8672
6:30448668	0.06992	0.868
6:32982921	0.07031	1.1191
6:32698285	0.07037	1.149
6:32982911	0.07042	1.1191
6:31273554	0.07084	1.2588

6:31130593	0.07199	1.1276
6:31016848	0.07351	0.7116
6:31347816	0.07364	1.1301
6:32741868	0.07569	1.1615
6:31192998	0.07583	1.1405
6:31234541	0.07587	1.1415
6:31392906	0.07625	1.2315
6:31337633	0.07629	0.6004
6:32407310	0.07644	0.8705
6:32996217	0.07657	1.1172
6:31237703	0.07675	1.1304
6:30764241	0.07713	0.8565
6:32449411	0.07719	0.8784
6:32984011	0.07781	1.1159
6:31206206	0.07831	1.1214
6:31243347	0.07875	1.1484
6:31669295	0.07952	0.7441
6:31238822	0.07954	1.3696
6:31240884	0.07984	1.3622
6:31592064	0.08	0.7442
6:31014305	0.08004	0.7126
6:32985413	0.08013	1.1149
6:29796640	0.0803	1.1407
6:31583224	0.08034	0.7445
6:30059616	0.08038	1.1577
6:29944158	0.08064	0.8036
6:31373445	0.08064	0.6887
6:31356960	0.08115	0.582
6:31211050	0.0815	1.1387
6:31233845	0.082	1.1382
6:31867253	0.08246	1.3225
6:31234381	0.08249	1.1232
6:31433558	0.08273	1.1482
6:32986677	0.08339	1.1136
6:31350505	0.08353	0.572
6:31628216	0.08365	0.7472
6:31301658	0.08421	1.2539
6:31298515	0.08439	1.2668
6:30031345	0.08464	0.8874
6:31326072	0.08526	0.6695
6:32576036	0.08569	0.8198

6:31546980	0.08657	1.3823
6:33037560	0.08697	1.1736
6:32983714	0.08735	1.1121
6:32026257	0.08736	1.2127
6:31243170	0.0875	0.8966
6:29838099	0.0876	1.1313
6:32163799	0.08817	1.2707
6:32451526	0.08838	0.8825
6:30181638	0.08878	1.2492
6:30800577	0.08927	0.8989
6:30172233	0.08991	1.2479
6:33025740	0.09084	1.1663
6:31614102	0.09085	1.149
6:30209953	0.09105	1.2472
6:31437305	0.09118	0.7805
6:31585219	0.09179	0.893
6:31445476	0.0922	0.7005
6:30077229	0.09246	1.1245
6:30193874	0.09249	1.2458
6:32998121	0.0927	1.1123
6:31431780	0.09324	0.6938
6:31577825	0.09352	1.1698
6:30313268	0.09392	0.8606
6:30151370	0.09451	1.2441
6:32161324	0.09502	1.2649
6:31445564	0.09537	0.7001
6:30314116	0.09655	0.8617
6:32978178	0.0969	1.1308
6:32427789	0.09697	1.1365
6:31240636	0.09793	1.3356
6:32586831	0.09846	0.8381
6:31472459	0.09863	0.777
6:32789807	0.09896	1.2971
6:33026388	0.09898	1.1617
6:32789168	0.1008	1.2985
6:32367795	0.101	1.1276
6:31272392	0.1013	1.38
6:31518354	0.1016	0.893
6:31347070	0.1026	1.1434
6:31176602	0.1033	0.7926
6:32789197	0.1033	1.2988

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6:32050067	0.1036	1.1185
6:31235610	0.1039	1.1284
6:31274555	0.1057	0.8556
6:31081251	0.1058	0.8703
6:29836577	0.1059	1.1229
6:33032975	0.1066	1.1935
6:31379115	0.1067	1.1251
6:31446366	0.1067	0.794
6:29835073	0.1068	1.1221
6:31186534	0.1068	0.7849
6:31482203	0.1071	0.7752
6:31561747	0.1074	0.654
6:33037557	0.1074	1.1583
6:29840648	0.1075	1.1223
6:30758861	0.1076	0.9015
6:31218038	0.1077	0.5813
6:29839816	0.1083	1.1217
6:30028913	0.1083	0.8035
6:32311459	0.1083	0.8895
6:30758466	0.1085	0.9015
6:30062058	0.1086	0.8027
6:30162809	0.1087	0.8483
6:31583155	0.1088	0.8983
6:30907266	0.1092	1.1607
6:29955025	0.1099	0.8042
6:29973925	0.1099	1.1844
6:29957802	0.1102	0.8045
6:29993086	0.1108	0.8057
6:29849619	0.1109	0.8562
6:31043249	0.1111	0.6733
6:31021504	0.1116	1.1085
6:30025210	0.112	0.8052
6:29833948	0.1123	0.8575
6:29963622	0.1132	0.806
6:32743298	0.1134	1.1398
6:31232147	0.114	1.1245
6:32071893	0.1147	1.1872
6:29992286	0.1153	0.8061
6:31272892	0.1157	1.312
6:29956953	0.1158	0.8071

6:29962268	0.1158	0.807
6:31269701	0.1158	1.39
6:32755087	0.1162	0.8191
6:29945508	0.1163	0.8074
6:31036706	0.1163	0.7865
6:32409530	0.1166	1.183
6:30036083	0.1173	0.807
6:30093137	0.1177	0.8877
6:31480398	0.1177	0.7755
6:31177458	0.1184	0.795
6:31254604	0.1184	1.3086
6:31265759	0.1184	1.3085
6:30152367	0.1191	0.8528
6:32447058	0.1191	1.1371
6:30022425	0.1192	0.8085
6:29969040	0.1195	0.8089
6:29980073	0.1195	0.809
6:32635949	0.1195	1.1927
6:29945368	0.1204	0.8093
6:30057675	0.1205	0.8091
6:31595487	0.1205	0.901
6:32713267	0.1206	1.1841
6:31269323	0.1208	1.3061
6:31481299	0.1209	0.7758
6:30042057	0.1214	1.2106
6:31273703	0.1214	1.3064
6:29942866	0.1216	0.8098
6:30445476	0.1219	0.8202
6:30413907	0.122	0.819
6:30005043	0.1221	0.8101
6:29835834	0.1222	1.1169
6:32755034	0.1222	0.8216
6:30030057	0.1224	0.8102
6:30030135	0.1224	0.8102
6:29985325	0.1227	0.8103
6:30033690	0.1227	0.8103
6:29988740	0.1228	0.8103
6:29987738	0.1232	0.8106
6:32026808	0.1241	1.1975
6:31335454	0.1243	0.8984
6:30036269	0.1247	0.8108

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6:29945741	0.125	0.8114
6:29966175	0.1253	0.8115
6:29970685	0.1253	0.8115
6:31604044	0.1254	1.1622
6:29979125	0.1256	0.8116
6:29967529	0.1262	0.8119
6:30040084	0.1264	0.7528
6:31070664	0.1265	0.6782
6:31346902	0.1265	0.7763
6:31346822	0.127	0.7763
6:31034110	0.1271	0.8114
6:30044914	0.1273	0.812
6:31589735	0.1274	1.3225
6:29980445	0.1276	0.8125
6:30046752	0.1278	0.8122
6:29988439	0.1286	0.8129
6:33042880	0.1286	1.1498
6:31330619	0.1287	1.127
6:31335647	0.1288	0.8995
6:32693506	0.129	0.7854
6:31258096	0.1292	1.299
6:32788511	0.1296	1.2346
6:32915823	0.1306	0.7607
6:30039484	0.1308	0.8133
6:32429894	0.1309	1.1326
6:31071645	0.131	0.6215
6:29829566	0.1312	1.2242
6:29945620	0.1312	1.1746
6:29967999	0.1312	0.8139
6:31262869	0.1314	1.2945
6:30002881	0.1315	0.9004
6:29975587	0.1316	0.814
6:31578772	0.1316	0.9027
6:32698988	0.1319	1.1047
6:29942191	0.1323	1.1568
6:30830292	0.133	0.6834
6:30061293	0.1334	0.8143
6:32668667	0.1336	1.1521
6:29969973	0.1337	0.8152
6:30041509	0.1337	1.2032

6:32754781	0.1337	0.8275
6:31233353	0.1339	1.1175
6:31085770	0.1341	0.9106
6:31192766	0.1341	0.7364
6:32435123	0.1342	1.125
6:33034596	0.1345	0.8622
6:31238793	0.135	1.3049
6:29991538	0.1355	0.8158
6:30444357	0.1356	1.1019
6:33040654	0.1356	1.1472
6:31234114	0.1358	0.8935
6:31258687	0.1363	1.2848
6:32177900	0.1368	1.1197
6:32297901	0.137	1.1683
6:31252925	0.1372	0.8674
6:32723614	0.1373	0.7613
6:33039652	0.1373	1.1463
6:29958674	0.1374	0.8153
6:30271334	0.1374	0.8755
6:31062133	0.1381	0.9105
6:32074804	0.1384	1.1751
6:31176921	0.1387	0.7983
6:31230800	0.1388	0.8943
6:32405144	0.1392	0.7455
6:29829655	0.1401	0.7653
6:31546789	0.1405	0.7391
6:32297906	0.1408	1.1667
6:31347643	0.1412	0.808
6:29930706	0.1413	0.7269
6:29831532	0.1423	0.7665
6:32752685	0.1423	0.8318
6:32595682	0.1429	1.4311
6:30825220	0.1432	0.6857
6:33038134	0.1432	1.1449
6:31925697	0.1433	1.2536
6:33038982	0.1438	1.1444
6:31348580	0.1439	1.0991
6:30055933	0.1441	0.8158
6:31233510	0.1441	0.8958
6:32835258	0.1441	0.8139
6:30142690	0.1451	0.8618

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6:30046376	0.1452	1.1671
6:30362961	0.1452	1.1317
6:32298942	0.1454	1.1645
6:31101674	0.1465	0.8854
6:30362999	0.1484	1.1918
6:31075115	0.1486	0.9112
6:31348879	0.149	1.0983
6:32753654	0.149	0.8335
6:29966620	0.1492	0.8205
6:32569667	0.15	0.8492
6:30339602	0.151	1.0964
6:31249977	0.1514	1.1001
6:32718620	0.1519	0.7177
6:32784676	0.1526	1.2317
6:32792693	0.1532	1.336
6:32338400	0.1535	1.1616
6:32741002	0.1536	0.8361
6:32663919	0.154	0.7894
6:32208324	0.1542	1.1136
6:31643522	0.1545	0.7951
6:32791313	0.1545	1.34
6:32743138	0.1548	0.8366
6:32791831	0.1548	1.3398
6:29968764	0.1553	0.8251
6:30026350	0.1559	0.8213
6:32793423	0.156	1.3386
6:32793957	0.156	1.3386
6:32793958	0.156	1.3386
6:32793970	0.156	1.3386
6:32794119	0.156	1.3386
6:32102680	0.1563	1.1673
6:32430368	0.1566	1.2099
6:31265565	0.1569	1.2794
6:31915614	0.1569	0.755
6:30738042	0.1571	1.4268
6:32752649	0.1575	0.8377
6:31131707	0.158	1.7395
6:32754430	0.1584	0.8378
6:32626179	0.1585	0.8297
6:32752150	0.1586	0.8379

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6:32754949	0.1586	0.8379
6:30872274	0.1588	0.6884
6:30025503	0.1593	0.9078
6:31075375	0.1594	0.9116
6:31111174	0.1594	1.7383
6:33031689	0.1598	1.1378
6:31691657	0.1599	1.199
6:31141127	0.1601	1.6176
6:31583827	0.1604	0.909
6:32198948	0.1605	0.8975
6:32756857	0.1605	0.8386
6:31256050	0.1606	1.2737
6:31228634	0.1609	0.9003
6:31073903	0.161	0.9121
6:32748021	0.161	0.8388
6:32751370	0.161	0.8388
6:32751555	0.161	0.8388
6:32752504	0.161	0.8388
6:32752641	0.161	0.8388
6:32754516	0.161	0.8388
6:32755275	0.161	0.8388
6:32758677	0.161	0.8388
6:32748690	0.1616	0.839
6:32752436	0.1616	0.839
6:31434198	0.1621	1.1189
6:31618723	0.1625	0.7986
6:31941557	0.1626	0.8618
6:31077938	0.1629	0.912
6:31529883	0.1634	0.91
6:32316240	0.1635	1.1582
6:32983765	0.1635	1.1912
6:31536224	0.1636	0.91
6:32085278	0.1641	0.7422
6:32626037	0.1643	0.8318
6:32637696	0.1648	1.1543
6:31445771	0.1649	0.7514
6:30362995	0.165	1.1236
6:31618761	0.165	1.144
6:32200754	0.1652	0.8985
6:31531215	0.1655	0.9104

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6:32411646	0.1662	1.1146
6:32981937	0.1664	1.2731
6:30770732	0.1666	0.8833
6:30118582	0.1667	0.889
6:31107031	0.1675	1.7303
6:31112354	0.1675	1.7303
6:31336418	0.1675	1.1149
6:31106516	0.1677	1.7203
6:32325292	0.1678	1.1597
6:31601012	0.1679	1.101
6:31080586	0.1685	0.694
6:32669373	0.1685	0.7452
6:30899577	0.1699	0.6402
6:32948426	0.1699	0.8406
6:31589676	0.17	0.911
6:31593476	0.1701	0.9108
6:32792640	0.1701	1.3482
6:31060115	0.1702	0.909
6:31336568	0.1702	1.1143
6:32413150	0.1712	1.1132
6:31059900	0.1718	0.9091
6:31343632	0.1728	1.1136
6:31060162	0.1729	0.9092
6:31061439	0.1729	0.9092
6:32823567	0.1738	0.8347
6:30046682	0.1742	1.1555
6:31235869	0.1744	0.9026
6:32380892	0.1746	1.1235
6:32725193	0.1751	1.0944
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6:31313556	0.1761	0.7903
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6:29932433	0.1766	0.8308
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6:32664093	0.1768	0.7908
6:29937104	0.178	0.7611
6:31062363	0.1782	0.9105
6:30773349	0.1783	0.8878
6:31480272	0.1784	0.7092

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6:31059386	0.1785	0.9096
6:31238259	0.1786	1.093
6:32590916	0.1787	0.9061
6:30069137	0.179	1.133
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6:29762068	0.1795	0.9095
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6:32590953	0.1799	0.9064
6:32323745	0.1803	1.183
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6:32740411	0.1804	0.8975
6:32050544	0.1805	1.1565
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6:31095270	0.1819	0.8968
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6:30128442	0.1828	1.1874
6:30726748	0.1834	1.0872
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6:31678774	0.1844	0.7242
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6:30743241	0.1852	1.0865
6:31179014	0.1854	1.0993
6:32921774	0.1868	1.1302
6:32590529	0.1874	0.7571
6:32981848	0.1875	1.2788
6:30769837	0.1879	0.8888
6:30327753	0.188	1.1188
6:31332239	0.188	0.6696
6:30035485	0.1883	0.7977
6:32659077	0.1891	1.1315
6:29768123	0.1892	0.8381
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6:29928838	0.1904	0.7422

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6:30331027	0.1913	1.1175
6:32295419	0.1914	1.3367
6:32430508	0.1914	1.1085
6:32830568	0.1914	0.8623
6:32927969	0.1916	1.1284
6:32763405	0.1917	0.8499
6:32761690	0.1923	0.8501
6:29935891	0.1924	0.742
6:31221698	0.1924	0.9076
6:31449778	0.1925	1.1006
6:32761398	0.1927	0.8502
6:31078615	0.1933	1.0872
6:32335516	0.1936	1.146
6:32176782	0.1944	1.1141
6:30571471	0.1946	1.0872
6:31437617	0.1947	0.8257
6:29773509	0.1953	0.9117
6:30955738	0.1953	0.7771
6:31437506	0.1953	0.826
6:29981427	0.1958	1.1486
6:30797083	0.1962	0.8929
6:32397813	0.1963	1.1457
6:32398525	0.1965	1.1458
6:31272030	0.197	0.6588
6:31178943	0.1974	1.0965
6:31347057	0.1974	1.095
6:29743563	0.1976	0.9121
6:32944987	0.1978	1.1267
6:32310396	0.1979	1.1623
6:30034184	0.1985	0.8018
6:32976759	0.199	0.9228
6:31544642	0.1993	0.8427
6:31265375	0.1995	1.3027
6:29736163	0.1998	0.8572
6:32802203	0.1999	0.922
6:29936408	0.2001	0.7373
6:31182536	0.2004	1.0958

6:32702449	0.2004	0.9003
6:31434111	0.2006	1.111
6:31340630	0.2011	1.1046
6:29913969	0.2014	0.8872
6:32597022	0.2017	1.1198
6:30055179	0.2018	0.8007
6:31177034	0.2024	1.0954
6:30296071	0.2027	0.9193
6:33025044	0.2027	1.1433
6:31184462	0.2046	1.0951
6:29926139	0.2049	1.1507
6:30925985	0.2057	0.7881
6:32667318	0.2058	1.1226
6:30569489	0.2059	1.1086
6:30785886	0.2059	0.8952
6:31236567	0.2067	1.087
6:31602967	0.2067	1.0924
6:31340611	0.2069	1.1032
6:31620020	0.2075	1.0914
6:29935590	0.2078	0.7698
6:31354238	0.2079	1.1694
6:30104783	0.208	0.8991
6:31617957	0.2084	1.0911
6:31333716	0.2085	0.6746
6:31252747	0.2086	1.2367
6:31188654	0.2089	0.7395
6:31610384	0.2089	1.0905
6:32080146	0.2089	1.1481
6:31184425	0.209	1.157
6:30976219	0.2098	0.7767
6:32169574	0.2098	1.0977
6:32413459	0.2109	1.1034
6:31618121	0.2111	1.0905
6:32730012	0.2114	1.0867
6:30633875	0.2115	1.1757
6:31081989	0.2118	0.9154
6:30350660	0.2119	1.1101
6:29937127	0.2123	0.7413
6:31207351	0.2135	1.1106
6:31333303	0.2138	0.9007
6:31475763	0.214	1.3185

6:31258868	0.2141	1.2402
6:32669439	0.2143	1.1229
6:30791409	0.2144	0.8969
6:31936679	0.2149	0.8765
6:32948804	0.2151	1.1214
6:32171075	0.2154	1.1087
6:29936351	0.2157	0.7442
6:32306419	0.2162	0.9127
6:32798795	0.2176	0.9248
6:32666943	0.2177	1.1215
6:30573842	0.218	1.1058
6:30778786	0.218	0.9012
6:30787175	0.218	0.8977
6:31252667	0.218	1.2428
6:31351608	0.2182	1.0889
6:29742108	0.2184	0.9167
6:31437195	0.2188	1.0913
6:30137649	0.2192	1.1724
6:29806341	0.22	0.8477
6:30794617	0.2204	1.0859
6:29828270	0.2207	0.8499
6:32221782	0.2207	1.0993
6:30127873	0.2208	1.1717
6:32825090	0.221	0.891
6:29936914	0.2212	0.7456
6:32402705	0.2215	1.1376
6:30033884	0.2227	0.8569
6:30056985	0.2236	0.7108
6:30333380	0.2238	1.1622
6:32217413	0.2243	1.1027
6:30680916	0.2245	1.1045
6:30782361	0.2247	0.8995
6:30117913	0.2258	0.8931
6:32671676	0.2264	1.118
6:30449046	0.2266	0.9073
6:30716117	0.2266	1.3899
6:32208921	0.2271	0.8699
6:29996255	0.2279	1.1392
6:31259902	0.2281	1.2391
6:31362930	0.2292	0.9185
6:32400344	0.2295	1.1351

6:31147094	0.2296	0.6246
6:32434830	0.2303	1.099
6:29933261	0.2307	1.1485
6:32404859	0.2307	1.1094
6:29934454	0.2308	1.1503
6:32687973	0.2312	0.78
6:31318024	0.2314	0.8227
6:30790604	0.2315	0.9005
6:30790798	0.2315	0.9005
6:31352113	0.2315	0.6872
6:29820503	0.2319	0.8521
6:30339245	0.232	1.1595
6:31934372	0.232	0.8809
6:30334339	0.2322	1.1079
6:31933161	0.2323	0.881
6:30793314	0.2325	0.9007
6:31317382	0.2328	0.8232
6:32412539	0.2328	1.0985
6:31317024	0.233	0.8213
6:29940372	0.2333	1.121
6:32989281	0.2338	1.0802
6:30030114	0.2341	1.1378
6:31091992	0.2344	0.9277
6:30330341	0.2348	1.1068
6:31061013	0.2348	1.1158
6:31601513	0.235	1.0859
6:31935311	0.235	0.8815
6:31016114	0.2353	0.7651
6:29746367	0.2359	0.9192
6:31616366	0.2359	1.0857
6:30796073	0.2362	0.9015
6:32665597	0.2363	0.8567
6:32432615	0.2379	1.0972
6:32668898	0.2381	1.1196
6:29774856	0.2382	0.9198
6:30037990	0.2386	1.1385
6:30785273	0.239	0.9018
6:32413259	0.2392	1.0971
6:32412480	0.2393	1.0971
6:32413094	0.2393	1.0971
6:32989244	0.2394	1.0757

6:32350454	0.2396	0.7805
6:29742299	0.2397	0.9199
6:31335566	0.2399	1.0975
6:31528130	0.2401	0.8745
6:30066358	0.2405	1.0961
6:31702710	0.2406	1.2269
6:29937826	0.2413	1.1576
6:31155186	0.2413	0.9029
6:31271070	0.2421	0.6704
6:32438598	0.2423	1.0962
6:32688638	0.2424	0.9091
6:30757575	0.2425	0.9226
6:30778403	0.2437	0.903
6:31155670	0.2439	0.9034
6:32432664	0.2458	1.0955
6:31424607	0.2461	1.125
6:32668917	0.2462	1.1188
6:32669084	0.2462	1.1188
6:32669156	0.2462	1.1188
6:32669878	0.2462	1.1188
6:32670037	0.2462	1.1188
6:32670978	0.2462	1.1188
6:32337686	0.2463	1.1722
6:32671521	0.2463	1.1194
6:31218889	0.2468	1.1024
6:32590925	0.2468	1.1094
6:30749712	0.2473	0.9234
6:31329932	0.2473	1.0898
6:32917857	0.2473	1.1125
6:32428285	0.2474	1.1088
6:32432858	0.2492	1.0948
6:30446055	0.2496	0.9041
6:32669883	0.2503	1.1184
6:30789799	0.2505	0.9043
6:31258837	0.2509	1.0783
6:33024711	0.251	1.1344
6:32430167	0.2522	1.0942
6:32434939	0.2523	1.0941
6:31266208	0.2526	1.0787
6:32430729	0.2529	1.0941
6:33034404	0.2534	1.1428

6:30394628	0.2539	0.8979
6:33024908	0.2546	1.1383
6:32429739	0.2554	1.0935
6:32431105	0.2554	1.0934
6:31271630	0.2556	0.6734
6:30754540	0.256	0.9247
6:32255417	0.2564	0.7684
6:31024808	0.2566	0.7881
6:32434639	0.2569	1.0934
6:30756593	0.257	0.9248
6:30756596	0.257	0.9248
6:30296681	0.2574	1.0953
6:30758348	0.2576	0.9249
6:32763821	0.2576	0.924
6:29836524	0.2581	0.8598
6:32779996	0.2585	0.9251
6:31232543	0.2586	0.7568
6:32431129	0.2591	1.0928
6:31636031	0.2593	1.1152
6:32730940	0.2596	1.1639
6:31271775	0.2597	0.6744
6:30753146	0.26	0.9253
6:32279532	0.26	0.7689
6:30208364	0.2605	1.2733
6:31063233	0.2609	0.9291
6:31317291	0.2613	0.8326
6:30119890	0.2615	1.1508
6:31671498	0.262	0.8863
6:30755320	0.2625	0.9257
6:31313482	0.2625	0.5402
6:30756744	0.2626	0.9257
6:32776976	0.2628	0.925
6:30756140	0.2634	0.9258
6:32626739	0.2634	0.9213
6:31188267	0.2635	1.0857
6:32439508	0.2637	1.092
6:32207512	0.2638	0.8258
6:30755744	0.2639	0.9259
6:30755863	0.2639	0.9259
6:30755893	0.2639	0.9259
6:32410691	0.2641	0.9028

6:32668258	0.2646	1.1159
6:33053577	0.2647	1.1632
6:32428804	0.2655	1.0915
6:32802820	0.2655	0.9317
6:32775821	0.2657	0.9254
6:31024601	0.2659	0.7894
6:31640518	0.2659	1.0802
6:31449022	0.266	0.8924
6:30756822	0.2662	0.9261
6:33032188	0.2662	1.142
6:31425499	0.2664	0.926
6:32208843	0.2664	0.8264
6:32865911	0.2664	0.9017
6:30436681	0.2665	0.9014
6:32415080	0.2666	0.9081
6:31240721	0.2671	0.8651
6:32420179	0.2671	1.09
6:31717696	0.2674	1.2199
6:32961361	0.2676	0.8979
6:32923993	0.2677	0.8706
6:31586094	0.2678	1.1133
6:30237859	0.2681	0.9058
6:32777216	0.2684	0.9258
6:31733650	0.269	1.2212
6:30108683	0.2697	0.9045
6:31271601	0.2702	0.681
6:32297209	0.2708	0.7705
6:33026517	0.2708	1.1406
6:33026524	0.2708	1.1406
6:30209836	0.2709	1.2552
6:31336960	0.271	1.1306
6:32626130	0.271	1.1777
6:30063496	0.2719	1.0902
6:31111180	0.2734	0.9272
6:31543758	0.2737	0.8118
6:32923988	0.2737	0.8721
6:33037768	0.2738	1.1256
6:31259531	0.2739	0.6843
6:32209198	0.2739	0.8471
6:32954689	0.2739	0.872
6:33036853	0.2741	1.1392

6:32767620	0.2743	1.0899
6:32951662	0.2743	0.8723
6:31838940	0.2748	1.4086
6:32737507	0.2751	1.1624
6:29809382	0.2754	0.919
6:31273301	0.2754	0.6783
6:31465917	0.276	0.812
6:31868938	0.2764	0.6676
6:31257012	0.2771	0.6787
6:33049965	0.2771	1.1599
6:32934409	0.2773	0.873
6:30752184	0.2778	0.9279
6:31114900	0.2778	0.9277
6:30599702	0.2785	1.0929
6:31314781	0.2785	0.9212
6:31607111	0.2786	0.7379
6:31605768	0.2788	0.7292
6:31272421	0.2791	0.6791
6:32569691	0.2793	1.0855
6:30209977	0.2794	1.2658
6:30142674	0.2796	1.1461
6:31255500	0.2796	0.7264
6:32441100	0.2799	1.1047
6:30208902	0.2801	1.2664
6:29943715	0.2803	0.9266
6:31271195	0.2804	0.6795
6:31424778	0.2807	0.9282
6:32194854	0.281	0.9272
6:29757995	0.2811	0.9252
6:33036210	0.2814	1.1397
6:33024738	0.2815	1.1335
6:31264922	0.2817	0.6799
6:29943178	0.2822	0.8265
6:30212504	0.2829	1.2699
6:31634193	0.2831	1.0772
6:30222020	0.2833	1.2719
6:30075903	0.284	0.8995
6:30119392	0.2843	0.9045
6:31230882	0.2844	1.0846
6:33036233	0.2847	1.1389
6:33036617	0.2847	1.1389

6:33036631	0.2847	1.1389
6:30109207	0.2849	0.7615
6:31244520	0.2858	0.7686
6:32852647	0.2858	0.8843
6:32686103	0.2862	0.9159
6:30141204	0.287	1.1688
6:31256561	0.287	0.6812
6:31244021	0.2872	1.0739
6:31268183	0.2874	0.7996
6:31271226	0.2875	0.6933
6:31312538	0.2875	0.9227
6:32207483	0.2879	0.8338
6:29938025	0.2886	1.2233
6:31115874	0.2891	0.9295
6:31257376	0.2891	0.6817
6:32677397	0.2891	0.7981
6:33037580	0.2892	1.1298
6:31272322	0.2895	0.6817
6:31272396	0.2895	0.6817
6:30986554	0.2896	1.2126
6:33037522	0.2896	1.1237
6:31271662	0.2897	0.6818
6:31272122	0.2898	0.6822
6:32373796	0.29	0.8
6:29930619	0.2901	1.1949
6:31132140	0.2906	1.0707
6:31354287	0.2906	0.9232
6:33030470	0.2907	1.1383
6:30767013	0.2909	0.9303
6:31354388	0.2912	0.9233
6:32710307	0.2915	0.57
6:32778531	0.2917	0.9291
6:33036971	0.2917	1.1379
6:33036999	0.2917	1.1379
6:30728290	0.2925	1.0758
6:31273224	0.2925	0.6825
6:31255434	0.2926	0.6826
6:32914297	0.2927	0.8767
6:31272447	0.2929	0.6825
6:29830591	0.293	1.1611
6:29722515	0.2932	0.8942

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6:31235276	0.2932	1.083
6:30113955	0.294	0.9066
6:31273422	0.2945	0.6826
6:31273595	0.2946	0.683
6:32313550	0.2948	0.9255
6:32584237	0.2948	0.5852
6:32739888	0.2948	0.9189
6:32411376	0.295	0.908
6:31359599	0.2951	0.9239
6:30986040	0.296	0.7353
6:30773899	0.2961	0.9309
6:31243971	0.2961	1.0727
6:32781433	0.2961	1.2161
6:30823760	0.2965	0.8951
6:30983348	0.2965	0.7354
6:31272853	0.2965	0.682
6:31273455	0.2973	0.6836
6:32066177	0.2974	1.0804
6:32190620	0.2976	0.9242
6:31340433	0.2982	1.0675
6:32626311	0.2985	1.1268
6:33033022	0.2985	1.1371
6:33032822	0.2986	1.1366
6:30756361	0.2987	0.9306
6:33035877	0.2987	1.137
6:31591808	0.299	1.0923
6:30154928	0.2991	1.0935
6:32194740	0.2991	0.9298
6:31353950	0.2993	0.9246
6:32853042	0.2993	0.8872
6:31107087	0.2996	0.9308
6:31264912	0.2998	0.6843
6:31274027	0.2998	1.0688
6:31273562	0.2999	0.6626
6:32765383	0.3	0.9303
6:32709964	0.3007	0.7866
6:31255541	0.301	0.6847
6:31256591	0.301	0.6846
6:31259854	0.301	0.6846
6:32199352	0.301	1.0791

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6:33032272	0.302	1.1367
6:29717380	0.3021	1.0892
6:33032347	0.3022	1.1361
6:31259137	0.3024	0.6664
6:32194751	0.3026	0.9303
6:31087354	0.3029	1.0721
6:32317635	0.3029	0.9267
6:32194609	0.3032	0.9304
6:31353541	0.3036	0.9253
6:30794346	0.3042	0.9323
6:29984252	0.3044	0.8035
6:31353323	0.3044	0.9254
6:32686248	0.3044	0.919
6:31601843	0.305	1.0916
6:32408842	0.3051	0.9099
6:31607942	0.3052	1.1468
6:32195935	0.3053	0.9259
6:33037675	0.3053	1.122
6:32686196	0.3057	0.9192
6:30782105	0.3065	0.9324
6:29944004	0.3071	1.1284
6:32781954	0.3076	1.2102
6:32325658	0.308	0.8099
6:31566204	0.3081	0.8019
6:29785776	0.3084	0.9299
6:31193155	0.3084	0.8732
6:32317973	0.3085	0.9275
6:32946133	0.3086	1.0649
6:30231224	0.3089	0.9094
6:32310811	0.3095	0.9277
6:32688752	0.3099	0.9199
6:32179709	0.3101	0.8473
6:32221228	0.3101	1.082
6:31022489	0.3102	0.9245
6:32312351	0.3104	0.9278
6:32316604	0.3104	0.9278
6:29772395	0.3107	0.9281
6:32776854	0.3115	0.9317
6:33037265	0.3122	1.1355
6:32670000	0.3124	0.7971

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6:33037279	0.3125	1.1344
6:31031904	0.3126	0.9237
6:31469323	0.3127	0.9346
6:31735631	0.3127	1.2151
6:30112704	0.3129	0.9099
6:31084435	0.3129	1.0709
6:32219041	0.3131	0.8118
6:30109831	0.3132	0.91
6:32942354	0.3136	0.7567
6:29704400	0.3137	1.0738
6:29745884	0.3148	0.9305
6:31036253	0.3149	0.924
6:32719666	0.315	0.735
6:31354504	0.3156	0.9272
6:33026553	0.3159	1.1349
6:29723161	0.3161	1.1883
6:33005932	0.3163	1.0872
6:30782235	0.3166	0.9338
6:32306922	0.3167	0.8131
6:29773999	0.3168	0.9315
6:32944746	0.317	1.0638
6:31481113	0.3173	1.083
6:31812038	0.3174	1.1065
6:30113427	0.3176	0.9107
6:32682174	0.3177	1.2618
6:31439740	0.3178	1.0688
6:30112906	0.3179	0.9108
6:33037142	0.3189	1.1347
6:29766969	0.3196	0.9307
6:31232111	0.32	1.0783
6:31240988	0.3202	0.6882
6:31468546	0.3203	0.9355
6:32954634	0.3204	1.0633
6:30113344	0.3205	0.9112
6:31024738	0.3208	0.9261
6:31025848	0.3208	0.9262
6:32718452	0.3226	0.7362
6:32714516	0.3228	0.7362
6:32715722	0.3228	0.7362
6:32717024	0.3228	0.7361

6:29957982	0.3229	0.8584
6:32374640	0.3229	1.271
6:32716181	0.323	0.7386
6:32714603	0.3231	0.7371
6:32720302	0.3235	0.7422
6:31024673	0.3236	0.9266
6:31038963	0.3237	0.9265
6:31233270	0.3238	1.0776
6:32724499	0.3242	0.7386
6:32681161	0.3245	1.1098
6:30786676	0.3248	0.935
6:32714083	0.3249	0.7424
6:29745794	0.325	0.9321
6:33026673	0.3254	1.1339
6:31241737	0.3255	0.69
6:32722702	0.3257	0.7409
6:32687358	0.3258	0.5989
6:32688288	0.326	0.599
6:29736995	0.3265	0.9322
6:31105672	0.3265	1.3256
6:32582577	0.3266	1.0761
6:30114101	0.3267	0.9135
6:31465103	0.3269	0.9363
6:30432785	0.3271	0.9131
6:32685648	0.3281	0.6028
6:30791971	0.3282	0.9355
6:32685673	0.3283	0.6035
6:32393150	0.3287	1.164
6:30111014	0.3289	0.9128
6:30112627	0.3291	0.9127
6:31034264	0.3293	0.9274
6:32374382	0.3294	1.2673
6:29785538	0.3297	0.933
6:32938049	0.3298	0.886
6:32988049	0.3298	0.9412
6:32313531	0.3299	0.9306
6:30110058	0.3304	0.9131
6:32627747	0.3306	0.8229
6:31266361	0.3307	1.0696
6:31360433	0.331	0.9294
6:31029173	0.3312	0.9277

6:30117101	0.3314	0.9129
6:32304085	0.3316	0.8891
6:33036435	0.3316	1.1342
6:31256753	0.3321	0.8306
6:33034421	0.3321	1.1331
6:31457178	0.3326	1.0785
6:29713036	0.3327	1.2025
6:29786732	0.3329	0.9334
6:32688779	0.3331	0.6014
6:32704523	0.334	0.6017
6:32405671	0.3347	1.0882
6:31091862	0.3348	1.0678
6:32961387	0.3352	1.0613
6:32663631	0.3354	0.8268
6:31266387	0.3355	1.0689
6:31354560	0.3356	0.9301
6:33038144	0.3357	1.1175
6:30115484	0.3363	0.915
6:32936441	0.3363	0.8873
6:29765001	0.3366	0.9321
6:32984255	0.3373	1.0763
6:31632134	0.3377	1.0855
6:31192963	0.3379	0.8817
6:31026009	0.338	0.9281
6:32689362	0.338	0.6437
6:32685685	0.3381	0.6008
6:31077646	0.339	0.8106
6:32707360	0.3392	0.6033
6:31241537	0.3394	0.9349
6:30777604	0.3395	0.9369
6:29735104	0.34	0.9338
6:31265940	0.3404	1.0682
6:30095329	0.3409	0.8922
6:30194917	0.341	1.1528
6:31354104	0.3412	0.9354
6:32715653	0.3417	0.7383
6:33032831	0.342	1.1328
6:29712704	0.3422	1.2005
6:31354819	0.3423	0.931
6:31610479	0.3424	1.0845
6:32993266	0.3426	1.0627

6:32707783	0.3427	0.6044
6:32704900	0.3428	0.6045
6:29927095	0.343	1.0797
6:31619576	0.343	1.0846
6:32705110	0.3431	0.6083
6:32709738	0.3432	0.6046
6:31025271	0.3434	0.9283
6:32338986	0.3438	1.0773
6:32365707	0.3438	1.0857
6:30782407	0.3439	0.9375
6:31388109	0.3439	0.9146
6:32802462	0.3439	1.1447
6:30767947	0.3442	0.9373
6:32986573	0.3445	1.077
6:30768636	0.3446	0.9374
6:31090552	0.3447	1.0662
6:33039503	0.3447	1.1149
6:31258846	0.3448	0.8326
6:33038369	0.3448	1.1149
6:33041176	0.345	1.1149
6:33041186	0.345	1.1149
6:33040798	0.3451	1.1144
6:31053257	0.3459	0.9231
6:32405192	0.3459	1.086
6:30781923	0.3461	0.9377
6:29835654	0.3462	0.8853
6:30768412	0.3466	0.9376
6:29768344	0.3468	1.0903
6:33040736	0.3469	1.118
6:33039837	0.3472	1.1162
6:32989971	0.3474	1.0622
6:33039848	0.3479	1.1152
6:31353593	0.3485	0.9363
6:32668323	0.3493	0.8829
6:30778203	0.3496	0.9382
6:31027510	0.3499	0.9293
6:29808634	0.3501	0.9309
6:32787592	0.3501	1.2465
6:31025989	0.3502	0.9299
6:32365896	0.3503	1.0845
6:32366625	0.3503	1.0845

6:32755290	0.3505	1.1065
6:32787119	0.3509	1.2023
6:30176122	0.351	1.1496
6:30200873	0.3514	1.1191
6:33039980	0.3518	1.1156
6:33039606	0.3523	1.1146
6:31243884	0.3524	1.0726
6:33040596	0.3527	1.1141
6:33040835	0.3527	1.1141
6:32692780	0.3528	0.6168
6:33039767	0.3528	1.114
6:30199016	0.3531	1.1195
6:30608273	0.3532	1.163
6:32690157	0.3532	0.6169
6:30094611	0.3533	0.8956
6:32667119	0.3533	0.8221
6:31355474	0.3535	0.9326
6:31406811	0.3536	0.9158
6:32698026	0.3536	0.617
6:31340559	0.3539	1.081
6:29734098	0.3541	0.9063
6:32900642	0.3542	0.8962
6:31407579	0.3543	0.8519
6:31219982	0.3545	0.9342
6:32266506	0.3545	0.7845
6:31269308	0.3546	0.7291
6:33041034	0.3564	1.1137
6:33040781	0.3566	1.1136
6:31710020	0.358	1.0661
6:32400088	0.3586	1.0838
6:33025493	0.3589	0.825
6:33038766	0.3603	1.1133
6:31342801	0.3608	1.0711
6:31342827	0.3609	1.0712
6:32669018	0.3611	0.9283
6:31355119	0.3612	0.9338
6:32589095	0.3612	1.1527
6:32367927	0.3619	1.0824
6:31093482	0.3622	1.0595
6:31262438	0.3627	1.0642
6:32256473	0.3628	0.9279

6:29944314	0.3633	1.0708
6:32411573	0.3633	0.8287
6:30076630	0.3639	0.9413
6:30434900	0.3641	0.9016
6:31029282	0.3642	1.1555
6:30140342	0.3648	1.1305
6:32980446	0.3653	1.1222
6:32668336	0.3659	0.8769
6:33042551	0.366	0.8386
6:31340328	0.3664	1.0794
6:31409857	0.3669	0.9185
6:31339240	0.3676	1.0742
6:30397089	0.3679	0.9206
6:31243830	0.368	0.8552
6:32266425	0.3683	1.1545
6:32279902	0.3683	1.1545
6:29723674	0.3684	1.0686
6:31360526	0.3684	0.9346
6:31361897	0.3687	0.9389
6:29759823	0.3696	0.9383
6:32062687	0.37	1.0766
6:32687570	0.3704	0.9285
6:33031677	0.3704	1.1281
6:31914179	0.3709	1.1031
6:31360341	0.3711	0.935
6:31298681	0.3733	0.9338
6:31327064	0.3742	0.8435
6:32379489	0.3743	1.0713
6:32976654	0.3748	1.122
6:30397840	0.3753	0.9217
6:31361485	0.3755	0.9356
6:32804414	0.3762	1.0638
6:31384578	0.3765	0.92
6:31366622	0.3768	0.94
6:32813768	0.3773	1.1113
6:32030284	0.3778	1.0657
6:31361710	0.3782	0.9402
6:32401327	0.3788	1.1474
6:30321189	0.3793	0.9119
6:32283844	0.38	1.1526
6:32161430	0.3803	0.9241

6:30768955	0.3806	0.9416
6:31893944	0.3808	1.0603
6:32161366	0.3808	0.9241
6:32038700	0.3809	1.068
6:31360255	0.3819	0.9364
6:32834732	0.3823	1.0612
6:32783387	0.3825	1.1917
6:33033894	0.3826	1.1268
6:30206186	0.3827	1.1404
6:29839268	0.383	0.9085
6:31421297	0.3833	1.0574
6:29773158	0.3834	0.7816
6:30106202	0.3834	0.9165
6:31366595	0.3846	0.9408
6:30139699	0.3848	0.9204
6:30434566	0.3849	0.9039
6:32715160	0.3853	0.6336
6:33042598	0.3854	0.8444
6:32798350	0.3858	0.9131
6:29769829	0.3879	0.9391
6:32367515	0.3882	1.0778
6:32782387	0.3882	1.0709
6:30609661	0.3886	1.1499
6:29767611	0.3896	0.8232
6:32670308	0.39	0.8845
6:30649134	0.3902	1.2162
6:32850839	0.3906	0.9051
6:30385618	0.3909	0.9066
6:31082404	0.3912	1.059
6:31264598	0.3915	0.9241
6:30649540	0.3922	1.2158
6:31407828	0.3924	0.9222
6:32136838	0.3925	1.0679
6:31264246	0.3934	0.9244
6:31075161	0.3936	0.817
6:32765585	0.3938	1.0974
6:31112075	0.3939	0.9471
6:32787056	0.3962	0.9301
6:32431358	0.3978	1.0793
6:31766844	0.3984	1.1402
6:30979910	0.3985	0.8393

6:33025450	0.3985	0.84
6:30423223	0.3988	0.9256
6:31603591	0.3989	0.9468
6:33039855	0.3993	1.1039
6:31337850	0.3997	1.0726
6:32447364	0.4	1.0789
6:30441652	0.4001	1.074
6:32660375	0.4005	0.881
6:32371269	0.4018	1.0674
6:30419258	0.4022	0.9136
6:32192617	0.4022	0.8668
6:30532278	0.4024	1.0721
6:32367604	0.4024	1.0756
6:32825348	0.4024	0.8902
6:31235751	0.4025	1.1082
6:32822858	0.403	0.892
6:32355511	0.4032	1.1228
6:30409037	0.4034	0.9263
6:30425455	0.4034	0.9263
6:31068026	0.4034	0.8117
6:32977044	0.4035	1.119
6:32759335	0.4036	0.9433
6:32830013	0.4037	0.8951
6:32336766	0.404	0.9252
6:29929336	0.4043	1.114
6:30414919	0.4043	0.9264
6:30105391	0.4048	0.9094
6:30412504	0.4048	0.9265
6:30414235	0.4052	0.9266
6:30418583	0.4052	0.9266
6:29928574	0.4053	1.1225
6:31237405	0.4056	1.0597
6:30410153	0.4057	0.9266
6:30424074	0.4059	0.9254
6:30171881	0.4062	1.1009
6:31417456	0.4063	0.9225
6:32196873	0.4064	0.8935
6:30108751	0.4065	0.9077
6:30920957	0.4065	0.9315
6:32410210	0.4066	0.9271
6:31238613	0.4067	1.0592

6:30168301	0.4069	1.1331
6:30170699	0.4069	1.1331
6:30426078	0.4076	0.9267
6:31237048	0.4076	1.0586
6:31344670	0.4077	1.0594
6:30076755	0.4078	0.948
6:30423358	0.4078	0.9268
6:30424676	0.4078	0.9268
6:30427510	0.4078	0.9268
6:32833646	0.4079	0.896
6:31344273	0.4081	1.0538
6:32376746	0.4081	1.0665
6:30428227	0.4082	0.927
6:30413494	0.4083	0.9268
6:30423187	0.4083	0.9268
6:30411089	0.4088	0.9265
6:30015167	0.4089	0.92
6:31237124	0.4089	1.058
6:32671765	0.4091	0.8869
6:29820047	0.4092	0.913
6:30106493	0.4092	0.9056
6:30159266	0.4093	1.1324
6:31237664	0.4094	1.0579
6:30410824	0.4099	0.9269
6:30419859	0.4099	0.9269
6:31780594	0.41	1.2374
6:31273745	0.4101	1.0553
6:29775662	0.4103	0.9046
6:30516458	0.4111	1.0706
6:30980582	0.4121	0.8412
6:32336364	0.4122	0.9267
6:31585084	0.4126	0.944
6:30417704	0.4133	0.9278
6:32412592	0.4135	0.9281
6:32911127	0.4135	0.9043
6:31269022	0.4138	1.0581
6:30151954	0.4139	1.131
6:31337671	0.4143	1.0707
6:29726550	0.4146	1.0539
6:30993958	0.4146	1.1255
6:29955199	0.4147	1.1197

6:32787310	0.4148	0.8957
6:30120268	0.4154	0.9249
6:31079894	0.416	0.8192
6:32332322	0.4167	0.9273
6:31342960	0.4169	1.0631
6:31089631	0.4172	0.8897
6:32674952	0.4177	0.8967
6:32424882	0.4181	0.9309
6:31246676	0.4183	1.0844
6:32684468	0.4184	0.7317
6:32985594	0.4186	1.1056
6:29788606	0.4187	0.9435
6:30419926	0.4187	0.9286
6:32670897	0.4187	0.8876
6:32670464	0.4192	0.8883
6:32586221	0.4194	0.9176
6:31489644	0.4196	1.0543
6:32351510	0.4197	0.8308
6:31459972	0.4199	0.948
6:30120633	0.4201	0.9255
6:30986527	0.4206	0.8422
6:32315727	0.4207	1.1239
6:30099996	0.4221	0.9257
6:32796653	0.4223	0.887
6:31263216	0.4227	0.929
6:32682862	0.4231	0.9333
6:30094315	0.4235	0.9269
6:32789480	0.4237	0.8856
6:31628733	0.4239	0.949
6:31066671	0.425	0.8532
6:32591629	0.425	0.8732
6:31540313	0.4252	0.9458
6:30386027	0.4255	0.9105
6:31080899	0.4256	0.8329
6:30420907	0.4264	0.9276
6:31692163	0.4265	1.0569
6:32299822	0.4273	0.914
6:31639979	0.4275	1.1073
6:29733223	0.4279	0.9441
6:30378601	0.428	0.9101
6:30979824	0.4284	0.8441

6:30377705	0.4288	0.9102
6:31107187	0.4288	0.9398
6:30103840	0.429	0.91
6:32688539	0.429	0.6249
6:31343604	0.4291	1.0661
6:32370684	0.4293	1.0636
6:30423279	0.4295	0.9278
6:30423370	0.4295	0.9278
6:32794676	0.4297	0.8884
6:31688217	0.4298	1.0567
6:30981715	0.4299	0.8437
6:30384317	0.4301	0.9102
6:30406756	0.4301	0.9294
6:30423577	0.4304	0.9283
6:30104808	0.4307	0.9073
6:30184704	0.4307	1.1266
6:30763562	0.4318	0.9303
6:31127037	0.4324	0.8798
6:31245309	0.4325	1.0822
6:29761516	0.4326	0.946
6:31086997	0.4326	0.8926
6:31087133	0.4326	0.8926
6:31088922	0.4327	0.8926
6:30983296	0.4329	0.843
6:31001143	0.4329	0.888
6:32955029	0.4329	0.8414
6:30041559	0.4338	1.0561
6:32370616	0.4342	1.0628
6:30986079	0.4343	0.8443
6:30986264	0.4343	0.8443
6:30986396	0.4343	0.8443
6:30987327	0.4343	0.8443
6:30989770	0.4343	0.8443
6:32368314	0.4344	1.0628
6:32333439	0.4345	0.9339
6:31344348	0.435	1.0657
6:30383675	0.4362	0.9111
6:30137890	0.437	1.2537
6:31238297	0.437	1.0533
6:30093744	0.4372	0.9072
6:29983715	0.4374	1.1131

6:32969745	0.438	1.0951
6:32963354	0.4382	0.8431
6:30306553	0.4384	1.0699
6:32298814	0.4389	0.915
6:30120945	0.4391	0.9284
6:29724939	0.4398	0.952
6:30097920	0.4398	0.9284
6:32349946	0.4406	1.0621
6:31345021	0.4407	1.0653
6:32418031	0.4409	0.9342
6:32581628	0.4409	0.8772
6:32663925	0.4409	0.886
6:32585589	0.441	0.921
6:32792973	0.441	0.9148
6:31917291	0.4425	0.8216
6:32987774	0.4431	1.0999
6:29926128	0.4434	0.9062
6:31240692	0.4435	0.9514
6:31091328	0.4438	1.3016
6:30267748	0.444	1.0721
6:29715762	0.4443	0.9527
6:31481526	0.4449	0.9489
6:30111932	0.4451	0.9296
6:30986491	0.4451	0.846
6:30986705	0.4451	0.846
6:29714413	0.4452	0.9528
6:32795965	0.4453	0.8892
6:31465637	0.4455	0.893
6:31114573	0.4457	0.9069
6:31246015	0.4466	1.0792
6:32797361	0.4467	0.8786
6:31262169	0.4469	1.0544
6:31345876	0.4469	1.0649
6:29730730	0.447	1.0561
6:31080432	0.447	0.832
6:29925086	0.4472	0.9061
6:30986504	0.4472	0.8463
6:32822269	0.4474	0.8974
6:32659878	0.4477	0.8471
6:32924584	0.4477	1.0477
6:31347566	0.4478	1.0583

6:32575983	0.448	0.8782
6:29916368	0.4482	1.1194
6:30096717	0.4494	0.9085
6:30094840	0.4496	0.9074
6:32179896	0.4496	1.0673
6:30098609	0.4497	0.9085
6:31413000	0.4502	0.6862
6:31481146	0.4502	0.9495
6:32796226	0.4504	0.8898
6:30120637	0.4508	1.0976
6:32349711	0.4509	1.0606
6:32665086	0.4511	0.8831
6:32950961	0.4511	0.8477
6:30100221	0.4514	0.9022
6:30385466	0.4515	0.9196
6:32972903	0.4516	0.9337
6:30921364	0.4517	0.9401
6:30498864	0.4529	1.0651
6:32335347	0.453	0.9328
6:32658327	0.4532	0.8873
6:31673436	0.4544	1.0876
6:30282332	0.455	1.075
6:29725321	0.4556	0.9536
6:32796521	0.4556	0.8918
6:30099951	0.4557	0.9055
6:31229644	0.456	1.0964
6:32312082	0.4562	1.1027
6:30904714	0.4575	0.9364
6:32342129	0.4584	1.0596
6:31379198	0.4587	1.0687
6:29730504	0.459	1.0563
6:32346794	0.4599	1.0593
6:30391723	0.46	0.93
6:31408004	0.46	0.6889
6:32757971	0.4601	0.9499
6:30455920	0.4602	1.0596
6:31267812	0.4602	1.0523
6:30823630	0.4607	0.9366
6:30319930	0.4621	0.9087
6:32219838	0.4621	1.1152
6:29909797	0.4624	1.1118

6:31051553	0.4625	1.1195
6:31245508	0.4627	1.0764
6:30094788	0.4631	0.9054
6:30392248	0.4632	0.9301
6:31171924	0.4639	0.8415
6:32797072	0.4641	0.8829
6:30774474	0.4644	0.9366
6:30990490	0.4647	0.8544
6:32935179	0.4647	1.0458
6:29782690	0.4648	0.9363
6:30010492	0.4652	0.8251
6:30392406	0.4654	0.9302
6:32358231	0.4656	1.0587
6:32997674	0.4658	1.0559
6:32759297	0.4667	0.9505
6:31245476	0.4671	1.0756
6:32660943	0.4671	0.8503
6:30825741	0.4675	0.9378
6:31327371	0.4679	1.0797
6:31540071	0.468	0.9509
6:32357165	0.468	1.0583
6:32758219	0.4684	0.9508
6:31058178	0.4686	1.1098
6:30700695	0.4693	0.783
6:30710135	0.4693	0.7829
6:32797109	0.4696	0.8835
6:29762693	0.4699	0.949
6:32212264	0.4699	0.9415
6:31173768	0.47	0.8426
6:31141523	0.4702	0.9492
6:32782149	0.4712	0.9069
6:30392160	0.4715	0.9306
6:31244475	0.4719	1.0748
6:32330430	0.4719	0.9391
6:31432006	0.4721	0.9115
6:31113214	0.4722	1.0582
6:31118511	0.4722	1.0582
6:31266730	0.4722	1.051
6:31411406	0.4728	0.6924
6:30700558	0.4739	0.7837
6:32325399	0.4739	0.9393

6:32321597	0.4742	0.6514
6:31351090	0.4743	1.1148
6:30110880	0.4744	0.9095
6:31008598	0.4744	0.9439
6:29776322	0.4747	0.9493
6:31483458	0.4758	1.0498
6:29940943	0.4759	0.8351
6:31367865	0.476	0.9497
6:31080718	0.4763	1.1022
6:32663851	0.4765	0.8405
6:32344973	0.477	1.057
6:32740761	0.4774	0.9512
6:32351901	0.4775	1.057
6:30394951	0.4776	0.934
6:31192796	0.4779	0.9279
6:31408265	0.4786	0.8257
6:30098323	0.4788	0.9341
6:30708428	0.4794	0.7845
6:30709364	0.4794	0.7845
6:30709830	0.4794	0.7845
6:30048020	0.48	0.8892
6:31190303	0.4803	1.0524
6:31515799	0.4803	0.9523
6:31125407	0.4807	1.0935
6:32796751	0.481	0.8934
6:32297417	0.4818	1.0819
6:32661294	0.482	0.8935
6:31107733	0.4821	1.0568
6:31483415	0.4824	0.9529
6:29783382	0.4826	0.9358
6:30900435	0.4839	1.1392
6:32324817	0.4839	0.9406
6:29755451	0.484	1.072
6:31120711	0.484	1.0913
6:30179422	0.4843	0.9353
6:31143582	0.485	0.9554
6:31116502	0.4857	1.0928
6:29780529	0.486	0.9507
6:32376471	0.486	0.9405
6:31387557	0.4863	0.9539
6:31094636	0.487	0.9519

6:29765291	0.4879	0.951
6:29705688	0.4887	0.9057
6:30899571	0.4893	0.9409
6:32664458	0.4895	0.892
6:32392945	0.4905	0.9382
6:32754081	0.4909	0.9532
6:31389784	0.491	0.9569
6:31901773	0.4919	0.8535
6:32440487	0.492	0.891
6:32788137	0.4921	1.0664
6:30902181	0.4924	0.9415
6:29942205	0.4934	0.8425
6:32186264	0.4936	1.0531
6:30097818	0.4941	0.9363
6:30865204	0.4942	0.9416
6:30090820	0.4944	0.9358
6:32666738	0.4945	0.8889
6:31390410	0.4946	0.9549
6:32665285	0.4948	0.889
6:32807490	0.4953	1.085
6:29716901	0.4956	0.9577
6:29943656	0.4962	0.9442
6:31136666	0.4962	0.9528
6:31665194	0.4972	1.0519
6:29736229	0.4976	0.952
6:32324544	0.4981	0.9425
6:32664880	0.4981	0.8947
6:32358513	0.4982	1.0622
6:32341473	0.4984	1.0542
6:30281578	0.4986	0.9035
6:30825287	0.4988	0.9212
6:32754409	0.4991	0.954
6:32369488	0.4997	1.1029
6:30061361	0.5004	1.07
6:29942083	0.5013	0.866
6:30429033	0.5013	0.9406
6:29739906	0.5014	0.9524
6:32123639	0.5015	1.0644
6:29987122	0.5018	0.8936
6:29943281	0.5022	0.869
6:30271792	0.5022	0.9043

6:29736601	0.5027	0.9526
6:32319364	0.5028	0.9431
6:31242445	0.503	1.1045
6:32786068	0.5032	1.1466
6:32974401	0.5042	0.9527
6:30690938	0.5046	0.9004
6:30955613	0.5048	0.8949
6:30115204	0.506	0.9236
6:32332564	0.506	0.9435
6:32333243	0.506	0.9435
6:32333425	0.506	0.9435
6:32367722	0.5064	1.0531
6:31267516	0.5068	1.047
6:30867958	0.5077	0.9434
6:29699156	0.5093	0.9071
6:31511350	0.5097	0.9064
6:32796019	0.5104	0.8984
6:32758571	0.5105	0.9553
6:32969616	0.5105	1.081
6:31185803	0.5114	1.0677
6:32900718	0.5115	0.9584
6:31922254	0.5121	1.0509
6:30902009	0.5125	0.944
6:30901926	0.5131	0.944
6:32658310	0.5132	0.9465
6:29942386	0.5137	0.8573
6:31042217	0.5143	1.0494
6:29938174	0.5151	0.8178
6:29983039	0.5152	1.0691
6:29942045	0.5156	0.8578
6:29938110	0.5165	0.8178
6:31175015	0.5169	0.9276
6:31947460	0.517	1.0502
6:30849822	0.5179	0.9447
6:29944184	0.5181	1.0635
6:30072721	0.5195	1.0502
6:30735105	0.5197	0.946
6:29987184	0.5198	0.8263
6:31236115	0.5199	1.0694
6:30066031	0.5201	1.0483
6:29702679	0.5205	0.9089

6:31439958	0.5207	1.0481
6:29821293	0.5208	0.9318
6:31352232	0.5208	1.0676
6:29975453	0.5209	1.0631
6:32752840	0.5216	0.9564
6:31259387	0.5221	1.0439
6:31327435	0.5222	0.8792
6:30046939	0.5223	0.8993
6:31184175	0.5234	1.0657
6:31010200	0.5237	0.9286
6:32602482	0.5239	1.068
6:31331829	0.5242	1.0443
6:32326165	0.5242	0.9454
6:29951106	0.5247	0.9463
6:32681277	0.5248	0.954
6:30038647	0.5264	0.9317
6:30066097	0.5273	1.0533
6:32345514	0.5276	1.0505
6:29782868	0.5278	0.9553
6:32862740	0.5278	1.0704
6:29711747	0.5293	0.9267
6:31136832	0.5298	0.9564
6:31265314	0.5306	0.8832
6:29782027	0.5307	0.9465
6:30072511	0.5307	1.0489
6:31488879	0.531	0.9109
6:31127562	0.5313	1.0491
6:32199144	0.5314	0.9476
6:31475127	0.5316	1.0485
6:29973526	0.5318	0.8219
6:29992261	0.5325	0.9399
6:29711041	0.5343	0.8763
6:31079264	0.535	1.1091
6:29938455	0.5352	0.8235
6:29938487	0.5356	0.8227
6:31079242	0.5359	1.1136
6:32743103	0.536	0.8447
6:29938371	0.5361	0.8239
6:30285524	0.5362	1.1469
6:31522669	0.5365	0.9467
6:31078836	0.5368	1.1131

6:31075481	0.5369	1.0428
6:31749142	0.5376	1.068
6:32649676	0.5376	0.9349
6:31622606	0.538	0.9577
6:31044863	0.5385	0.9191
6:32740442	0.5393	1.0436
6:32383441	0.5394	0.9455
6:30070937	0.5399	1.0476
6:31641139	0.5402	0.958
6:32367847	0.5402	1.0488
6:32218989	0.5403	0.9352
6:31609813	0.5405	0.9579
6:29713926	0.5408	0.9342
6:31136714	0.5411	0.9575
6:29818662	0.5412	1.096
6:32317276	0.5413	1.0862
6:31431691	0.5416	0.9248
6:29809194	0.5426	0.9306
6:32318036	0.5426	1.0857
6:30028800	0.5428	0.8358
6:31074128	0.5428	1.1098
6:31528951	0.543	0.9382
6:32406342	0.543	1.06
6:29935372	0.5433	0.9381
6:31052684	0.5446	0.9197
6:32219725	0.5446	0.9355
6:29718165	0.5454	0.9337
6:31001166	0.5457	1.0566
6:31388522	0.546	0.8306
6:32256418	0.5463	0.9511
6:31135706	0.5471	0.9581
6:31484561	0.5474	1.0461
6:31255286	0.5479	1.0411
6:32345183	0.5484	0.8768
6:29820586	0.5486	1.0914
6:30065298	0.5493	1.0492
6:31260218	0.5494	1.0409
6:29776360	0.5495	0.9581
6:31543101	0.5498	0.9089
6:31437566	0.55	0.8584
6:30005754	0.5501	0.8715

6:30900664	0.5505	1.0381
6:31050244	0.5507	0.9223
6:32984788	0.5507	0.9192
6:33017457	0.5507	0.9525
6:31126944	0.5508	0.9605
6:32975381	0.5508	0.9387
6:30379965	0.5509	0.9467
6:29782470	0.5521	0.9577
6:31446466	0.5522	0.9592
6:31264302	0.5525	0.9527
6:31020152	0.5536	0.9312
6:31053741	0.5537	0.9202
6:29939544	0.5538	0.9357
6:30046848	0.5542	0.9065
6:31180642	0.5544	1.0604
6:31038593	0.5545	0.9258
6:32147696	0.5545	1.0541
6:30112408	0.5551	0.9182
6:31047160	0.5555	0.921
6:31051854	0.5558	0.9211
6:30006765	0.556	0.8499
6:30115542	0.5561	0.9138
6:31180055	0.5561	1.0601
6:31929014	0.5561	1.0453
6:29949821	0.5562	1.0712
6:32282854	0.5564	1.0517
6:32263458	0.5565	0.9467
6:31442137	0.557	1.0612
6:30389323	0.5571	0.9364
6:30008746	0.5578	0.8478
6:30115965	0.5578	0.9172
6:32804570	0.558	1.0429
6:30109412	0.5584	0.9159
6:31742067	0.5585	1.0423
6:30118360	0.5586	0.9197
6:29703823	0.5588	1.09
6:29778626	0.5588	0.959
6:30333505	0.5588	0.9396
6:32581253	0.559	0.9574
6:30154049	0.5591	1.0936
6:30065117	0.5595	0.8982

6:31080859	0.5602	0.9287
6:31473286	0.5602	1.0449
6:29778109	0.5604	0.9592
6:32838664	0.5604	0.9247
6:32218681	0.5605	0.9366
6:32266535	0.5605	1.0796
6:31181025	0.5609	1.0593
6:30106296	0.5612	0.9177
6:31031381	0.5615	0.9265
6:31762311	0.562	0.878
6:32385605	0.562	0.948
6:31047471	0.5622	0.9239
6:30109482	0.5624	0.9187
6:30105349	0.5625	0.9186
6:30104480	0.5631	0.9191
6:32358144	0.5634	0.9231
6:30103745	0.5635	0.9192
6:30114955	0.5635	0.9171
6:30966282	0.5635	0.8801
6:29706691	0.5636	0.9027
6:31018546	0.5638	0.9319
6:32324945	0.5638	0.9503
6:30410206	0.5639	1.0483
6:32270500	0.5639	1.0792
6:29709234	0.5643	0.9343
6:31147194	0.5643	1.0454
6:31042608	0.5646	0.9267
6:31410408	0.5647	1.0604
6:29813942	0.565	0.9353
6:30032522	0.565	0.9378
6:32581190	0.5654	0.958
6:32837696	0.5655	0.9274
6:30740680	0.5657	0.95
6:31050179	0.5658	0.9243
6:32394313	0.5658	0.9492
6:30058988	0.566	1.0509
6:32284340	0.5665	0.948
6:32358163	0.5666	0.9235
6:30103898	0.5669	0.9197
6:29821982	0.5671	1.0885
6:32838949	0.5672	0.9284

6:29704545	0.5677	1.0887
6:30026236	0.5677	1.0822
6:30121048	0.568	0.9181
6:30114666	0.5683	0.922
6:31344238	0.5684	1.06
6:31023148	0.5688	0.9294
6:31334945	0.569	0.9402
6:32195988	0.5692	0.9543
6:31048387	0.5693	0.9247
6:31048263	0.5694	0.9226
6:31170514	0.5698	1.0587
6:29701564	0.5699	0.9396
6:30034289	0.5699	1.0819
6:32218843	0.5699	0.9596
6:30045495	0.5701	0.9102
6:29721146	0.5702	0.9408
6:32840139	0.5707	0.9286
6:32843238	0.5711	0.9288
6:32266795	0.5712	0.9486
6:30966304	0.5713	0.8814
6:32835615	0.5714	0.9289
6:29708028	0.5718	1.0882
6:31172655	0.5722	1.0579
6:32054934	0.5722	1.1375
6:31023186	0.5723	0.9298
6:31032937	0.5723	0.9277
6:31038976	0.5723	0.9277
6:31042811	0.5723	0.9277
6:31029918	0.5728	0.9299
6:31336757	0.5728	0.923
6:30068472	0.5736	0.9017
6:29745726	0.5737	0.9601
6:30115063	0.5737	0.9171
6:31044468	0.5737	0.9282
6:31013085	0.5742	0.9651
6:30948421	0.5745	0.8692
6:31788479	0.5746	0.9156
6:32838584	0.5747	0.929
6:31566507	0.5748	1.1034
6:30958494	0.575	0.8816
6:30964393	0.575	0.8835

6:30967202	0.5758	0.8822
6:31042306	0.5758	0.9281
6:31093914	0.5759	1.2244
6:31778272	0.5762	1.0511
6:32220685	0.5765	0.9602
6:30960267	0.577	0.8829
6:31016978	0.577	0.9335
6:31032387	0.577	0.9286
6:30057544	0.5772	0.9025
6:30118707	0.5773	0.9214
6:32802807	0.5777	1.0522
6:32379506	0.5781	1.2464
6:30978717	0.5784	0.9228
6:29937833	0.5785	1.04
6:30045491	0.5785	0.9121
6:30062257	0.5796	0.9031
6:31028920	0.5796	0.9305
6:31352631	0.5797	0.9624
6:30055377	0.5802	1.0455
6:31187075	0.5803	1.041
6:32862682	0.5812	1.067
6:30940945	0.5813	0.8861
6:30940302	0.5814	0.8861
6:31158689	0.5816	1.0563
6:30736402	0.5817	0.9519
6:30949430	0.5819	0.8739
6:32969457	0.5819	1.0365
6:31259338	0.5821	1.0838
6:30045882	0.5822	0.9129
6:29832332	0.5827	1.0635
6:30046292	0.583	0.913
6:32408497	0.5831	1.0615
6:30946148	0.5832	0.8855
6:31033509	0.5832	0.929
6:30118637	0.5833	0.9235
6:30941691	0.5833	0.8864
6:31005726	0.5833	1.0457
6:31256746	0.5834	1.0831
6:30047612	0.584	0.9133
6:32431558	0.584	1.145
6:31506210	0.5841	0.9628

6:32841319	0.5843	0.9308
6:31451680	0.5846	0.9565
6:31914935	0.5848	1.0513
6:31267515	0.585	1.0384
6:30942929	0.5855	0.8868
6:30069795	0.586	1.0528
6:30972202	0.5865	0.8834
6:32838269	0.5865	0.9304
6:30976781	0.5866	0.8843
6:31031696	0.5868	0.9313
6:31036783	0.5868	0.9313
6:31037794	0.5868	0.9313
6:32785515	0.5868	0.9397
6:30978196	0.5869	0.8837
6:31039252	0.5869	0.9313
6:31041493	0.5869	0.9313
6:31263751	0.5869	0.9566
6:31032358	0.587	0.9314
6:31804610	0.587	0.9162
6:30734080	0.5871	0.9598
6:30947365	0.5872	0.8862
6:30941645	0.5874	0.8871
6:32387752	0.5874	0.9514
6:30940705	0.5875	0.8871
6:30941285	0.5875	0.8871
6:30943083	0.5875	0.8871
6:29703262	0.5876	0.9413
6:30267886	0.5878	0.9352
6:32973878	0.5884	0.9524
6:31111356	0.5889	0.8315
6:31173906	0.5897	1.0551
6:31174385	0.5897	1.0551
6:32338326	0.5898	1.1959
6:31171486	0.5899	1.0551
6:31026434	0.5904	0.9317
6:31106268	0.5904	1.0376
6:32865997	0.5904	0.9416
6:30956779	0.5905	0.8842
6:30670700	0.5906	1.0995
6:30975090	0.5906	0.8842
6:31679307	0.5906	1.0439

6:29761522	0.5907	0.9623
6:32845873	0.5908	0.9215
6:29835999	0.5909	1.0742
6:30942387	0.5911	0.8877
6:29938932	0.5914	1.0867
6:32357339	0.5914	0.9348
6:31165527	0.5917	1.0548
6:30047174	0.5919	0.915
6:30260982	0.5923	0.9342
6:30975445	0.5926	0.8846
6:32973743	0.5926	0.9527
6:32583159	0.5927	0.9614
6:30414011	0.5929	1.0438
6:29806622	0.5936	0.9346
6:30681980	0.5936	1.0987
6:32359821	0.5938	1.2196
6:30078330	0.5943	1.0488
6:31464571	0.5944	1.041
6:30974995	0.5946	0.8849
6:30975224	0.5946	0.8849
6:30975440	0.5946	0.8849
6:31173096	0.5946	1.0544
6:29939852	0.5947	1.0847
6:30955929	0.5947	0.8856
6:30731633	0.5948	0.9606
6:30972471	0.5949	0.8851
6:31236250	0.5955	1.0727
6:29702510	0.5958	0.942
6:29705659	0.5958	0.942
6:29828880	0.5959	1.0742
6:30730960	0.5968	0.9608
6:31266335	0.597	1.08
6:32223258	0.5973	1.0431
6:31272818	0.5975	0.8744
6:29706277	0.5977	0.9396
6:31480923	0.5977	1.0441
6:31384431	0.5982	1.0937
6:32261771	0.5983	1.0744
6:30943539	0.5985	0.8889
6:30956215	0.5985	0.8856
6:29822174	0.5988	1.0724

6:31043232	0.5995	0.9357
6:31255183	0.5998	1.0794
6:31259837	0.5998	1.0794
6:31260040	0.5998	1.0794
6:31261983	0.5998	1.0794
6:31176928	0.6006	1.0533
6:33053609	0.601	1.0809
6:33006338	0.6012	0.9467
6:30950589	0.6014	0.888
6:32368087	0.6014	1.0415
6:32386061	0.6024	0.9533
6:31600106	0.603	0.8791
6:31080704	0.6034	0.9057
6:30782002	0.6044	0.9418
6:32362075	0.6048	0.9275
6:31525184	0.6051	0.9648
6:32345131	0.6053	0.9277
6:31261137	0.6055	1.0781
6:31261492	0.6055	1.0781
6:33007752	0.6059	0.947
6:30734255	0.6061	1.058
6:31417191	0.6061	0.9643
6:29800142	0.6065	0.9364
6:32331998	0.6079	0.9563
6:32723917	0.6082	0.967
6:30067892	0.6096	1.0506
6:30079307	0.6097	1.0459
6:29932666	0.6099	1.0443
6:32384677	0.6099	0.9542
6:32385099	0.6099	0.9542
6:31675501	0.6105	1.0596
6:32586639	0.6108	0.9477
6:31260105	0.6111	1.0769
6:32385873	0.6115	0.9544
6:32385653	0.6118	0.9544
6:30054757	0.6122	1.0416
6:30757491	0.6127	0.959
6:31011013	0.6127	0.9685
6:30024677	0.6128	1.2049
6:31237354	0.6134	0.9211
6:32072211	0.6135	0.8785

6:32409996	0.614	0.9028
6:32385782	0.6142	0.9547
6:30940032	0.6145	0.8932
6:32337630	0.6145	0.9047
6:30947042	0.6146	1.0681
6:30081334	0.6147	1.0453
6:31302525	0.6147	1.0422
6:31261514	0.6151	0.9242
6:30080274	0.6152	1.0454
6:30210807	0.6152	1.0636
6:31145116	0.6156	0.9669
6:32848566	0.6165	0.9324
6:31081052	0.6175	0.9504
6:32804217	0.6177	1.0325
6:32383858	0.6179	0.9552
6:32385470	0.6179	0.9552
6:32388308	0.6179	0.9552
6:29812834	0.6181	0.9393
6:29812454	0.6188	0.9395
6:32911418	0.6189	0.8962
6:32385573	0.619	0.9553
6:32387860	0.6199	0.9554
6:31807540	0.6219	1.0542
6:29812030	0.622	0.9397
6:31126790	0.6225	0.9688
6:32203537	0.6226	0.9609
6:32194339	0.6227	0.9602
6:30335350	0.6229	1.0438
6:30993590	0.6237	0.9603
6:31263587	0.6237	0.9609
6:31105310	0.6243	1.0435
6:31635710	0.6248	1.0408
6:31012466	0.625	0.9696
6:32978587	0.625	1.0621
6:31129616	0.6251	0.9659
6:31346599	0.6251	0.9504
6:32804219	0.6252	1.0318
6:32846570	0.6255	0.935
6:31512936	0.6264	0.8853
6:31347144	0.6266	0.965
6:31133509	0.6272	0.9638

6:31302168	0.6278	1.0407
6:31255465	0.6281	1.0731
6:31302904	0.6284	1.0312
6:32317471	0.6289	1.0695
6:31136453	0.6291	0.9661
6:31446796	0.6291	0.9613
6:30078275	0.6293	1.0443
6:31506744	0.6299	1.0396
6:32987277	0.6307	0.9562
6:32193678	0.6308	0.9137
6:31130078	0.6319	0.9666
6:31130502	0.6324	0.9666
6:31453618	0.6326	1.0581
6:31132649	0.6327	0.9638
6:32358533	0.6331	0.9309
6:32362408	0.6331	0.9309
6:32986782	0.6335	0.9554
6:31846741	0.6337	1.0587
6:29967302	0.6338	1.0472
6:29978352	0.6344	0.8519
6:29933000	0.6346	1.0412
6:31496925	0.6346	1.0391
6:29940679	0.635	0.9433
6:32358459	0.6358	0.9312
6:31498497	0.6359	1.0389
6:32109979	0.636	1.0376
6:32361035	0.636	0.9313
6:32361613	0.636	0.9313
6:32362182	0.6369	0.9322
6:31100942	0.6374	1.0866
6:29829871	0.638	1.0643
6:30977205	0.6382	0.893
6:32953711	0.6383	1.0308
6:30679333	0.6387	1.0864
6:29830505	0.6388	1.0659
6:32301514	0.639	1.0709
6:32818678	0.639	1.0334
6:30769565	0.6402	0.9607
6:32354803	0.6406	0.8236
6:31352040	0.6409	1.0328
6:31266767	0.6414	1.0331

6:31417396	0.6424	0.9584
6:32383410	0.6435	0.9583
6:29937580	0.6441	0.8307
6:32209861	0.6442	0.9663
6:32995962	0.6449	1.037
6:31259834	0.6464	1.0691
6:32383246	0.6468	0.9587
6:32310967	0.6471	1.067
6:32310684	0.6473	1.0673
6:29983538	0.6474	0.9532
6:32383307	0.6478	0.9588
6:32315557	0.6481	1.0669
6:32109938	0.6484	0.9567
6:32309864	0.6488	1.0668
6:31510933	0.649	0.9691
6:30938883	0.6491	1.0602
6:32905086	0.6495	0.8041
6:31488904	0.6497	1.0371
6:32291643	0.65	0.9649
6:32083175	0.6501	1.0351
6:32307137	0.6506	1.0665
6:32309352	0.6507	1.0668
6:32317127	0.6507	1.0665
6:32317215	0.6507	1.0665
6:31274693	0.6508	0.9128
6:32313461	0.651	1.0665
6:32968412	0.651	0.9336
6:32331824	0.6511	1.0665
6:32998729	0.652	0.9714
6:32313136	0.6521	1.0663
6:30405956	0.6523	1.0364
6:32330153	0.6524	1.0663
6:29940260	0.6527	1.0708
6:32312796	0.6529	1.0665
6:32313097	0.6531	1.0662
6:33005273	0.6532	1.0415
6:33049384	0.6532	0.8988
6:32314676	0.6543	1.066
6:33049309	0.6544	0.8994
6:30279130	0.6552	0.9522
6:31856070	0.6554	0.9664

6:32331841	0.6554	1.0659
6:31314313	0.6558	1.0373
6:31315540	0.6558	1.0373
6:31328542	0.6571	1.0493
6:30697740	0.6577	0.9311
6:31446557	0.6577	1.055
6:30065575	0.6584	1.0508
6:32383208	0.6584	0.9601
6:32313143	0.6588	1.0654
6:30154199	0.6593	0.9707
6:32113980	0.6595	1.0342
6:33005208	0.6597	1.04
6:31448625	0.6601	0.9648
6:30511170	0.661	1.0404
6:32282033	0.661	1.0616
6:31314347	0.6614	1.0366
6:30080496	0.6616	1.0398
6:32362217	0.6618	0.9344
6:30015330	0.6619	0.9583
6:30808762	0.6622	0.9725
6:29731635	0.6623	0.9543
6:29938507	0.6623	0.8562
6:31122330	0.6624	0.8612
6:29698821	0.6637	1.0698
6:31336100	0.6637	1.0328
6:31453781	0.6639	0.8973
6:31269262	0.6644	1.0308
6:31803130	0.6644	0.9072
6:29961631	0.6646	0.9459
6:29963065	0.6646	1.0461
6:29707050	0.6647	0.9543
6:29975047	0.6649	0.9597
6:30006876	0.6649	0.9593
6:32689529	0.6649	1.073
6:29943035	0.6651	1.0374
6:33016033	0.6655	0.9526
6:32850850	0.6659	0.9377
6:31169933	0.6662	1.0437
6:31506624	0.6664	1.0352
6:31506854	0.6667	1.0352
6:33006869	0.6668	1.0395

6:32741918	0.667	1.043
6:32336074	0.6674	1.0642
6:32295350	0.6677	1.0608
6:32304031	0.668	1.0607
6:32743000	0.668	1.0427
6:31269348	0.6681	0.9027
6:32299715	0.6684	1.0607
6:32744347	0.6684	1.0426
6:32299873	0.6691	1.0606
6:32768721	0.6692	1.0304
6:30155313	0.6693	0.9716
6:32302067	0.6693	1.0606
6:32301322	0.6695	1.0605
6:32244627	0.6697	0.9651
6:32245827	0.6697	0.9651
6:32354644	0.6698	1.0391
6:30769687	0.6699	0.9641
6:29973910	0.67	0.9613
6:30028831	0.6705	0.9564
6:32851507	0.6709	0.9396
6:33004387	0.6715	0.9521
6:32790059	0.6719	0.9019
6:32278266	0.672	1.0602
6:32305690	0.6722	1.0596
6:31447135	0.6723	0.966
6:31919578	0.6725	0.9718
6:31315425	0.6731	1.0353
6:32305370	0.6732	1.0594
6:32294992	0.6736	1.06
6:32844032	0.6739	1.0805
6:32849639	0.674	0.9407
6:29701476	0.6743	1.0935
6:30953105	0.6745	1.04
6:32682812	0.6748	0.9572
6:31300518	0.675	1.035
6:30011934	0.6753	0.9586
6:32985052	0.6756	0.9585
6:32261507	0.6759	0.9659
6:32713867	0.6759	0.9652
6:29730095	0.6766	0.9563
6:29937242	0.6766	0.9583

6:32803840	0.6773	0.9746
6:32196313	0.6775	0.9665
6:31440309	0.6781	1.0287
6:32260350	0.6781	0.9661
6:30120912	0.6786	0.9443
6:30311932	0.6786	0.945
6:32260559	0.6789	1.0598
6:30121185	0.6792	0.9645
6:32980608	0.6795	0.9582
6:30157654	0.6798	0.9725
6:30116078	0.6809	1.0535
6:32787036	0.6825	0.9534
6:31504587	0.6826	1.0334
6:32561327	0.6827	0.9688
6:32808232	0.6828	1.0274
6:31170713	0.6829	0.9745
6:31777946	0.6832	0.9721
6:32848168	0.6837	0.9441
6:31020821	0.6838	1.0436
6:32194308	0.6839	0.9465
6:30575603	0.684	1.0272
6:33002354	0.6849	0.9542
6:31015182	0.685	0.9748
6:29732244	0.6864	1.0306
6:29950583	0.687	0.9497
6:32255410	0.6876	0.9672
6:31304135	0.6879	1.0258
6:30209802	0.6881	0.9732
6:30512505	0.6881	0.937
6:31438794	0.6887	0.951
6:31860337	0.6897	0.9702
6:30970970	0.6901	0.9283
6:33004287	0.6903	0.8879
6:32101762	0.6905	1.0306
6:29718544	0.6906	0.9521
6:31275174	0.6907	0.931
6:30719909	0.6908	1.0763
6:31499354	0.6909	1.0325
6:32336586	0.6909	1.0608
6:29941400	0.691	0.9545
6:31383848	0.6911	1.0382

6:31502767	0.6912	1.0325
6:32844523	0.6912	0.9444
6:31315120	0.6913	0.9746
6:31318303	0.6915	1.0331
6:30203602	0.6919	0.9737
6:32804070	0.6921	0.7976
6:33001488	0.6921	1.0374
6:29717826	0.6922	0.9536
6:32681355	0.6922	1.0329
6:33005070	0.6929	0.8895
6:32814659	0.693	1.0383
6:32294712	0.6936	1.053
6:30713808	0.6937	0.9651
6:32281676	0.6942	0.9679
6:32915797	0.6944	0.9502
6:31448818	0.6946	1.0482
6:31497457	0.6952	1.032
6:32972642	0.6954	0.9384
6:31096575	0.6957	0.8976
6:32758394	0.6959	0.967
6:30142458	0.696	0.9737
6:32257337	0.6964	1.0564
6:29812559	0.6965	0.8486
6:32668946	0.6966	1.0412
6:32272327	0.697	0.9679
6:32235177	0.6972	0.9682
6:29731241	0.6974	0.9576
6:32279284	0.6987	0.9683
6:31497744	0.6988	1.0316
6:29698050	0.6997	0.9561
6:32916699	0.6999	1.03
6:32280344	0.7	0.9685
6:29720726	0.7003	1.0878
6:30714479	0.7004	1.025
6:32238680	0.7006	0.9686
6:32224139	0.7008	0.9686
6:29940750	0.7015	1.0653
6:30723781	0.7017	0.9608
6:32202597	0.7018	0.9562
6:30209493	0.702	0.9745
6:31119422	0.7025	1.0391

6:31275163	0.7025	0.9328
6:32235096	0.7029	0.9688
6:29724147	0.703	0.9576
6:32811366	0.7031	1.0675
6:31172044	0.7038	0.9511
6:32315486	0.704	0.9334
6:31380449	0.7041	1.0247
6:29719561	0.7045	0.9556
6:30163955	0.7046	1.0318
6:31207692	0.7047	1.026
6:32268701	0.7049	0.969
6:32338695	0.7058	0.9698
6:32230608	0.7059	0.9691
6:32736936	0.7059	1.0453
6:32974843	0.7059	1.0323
6:31440497	0.7062	1.0261
6:29938258	0.7077	0.9572
6:32586134	0.7086	0.9622
6:32823257	0.7086	0.9451
6:32234512	0.7087	0.9695
6:31004521	0.7093	1.1435
6:31388214	0.7096	1.0252
6:32968276	0.7097	1.0248
6:31448653	0.7107	1.0455
6:31512799	0.7108	0.9552
6:30155131	0.7121	0.9754
6:31373810	0.7124	0.9232
6:32307382	0.7127	1.0578
6:33003065	0.7127	1.0358
6:30194531	0.7128	0.9755
6:32278792	0.7132	0.97
6:31368588	0.7152	0.9243
6:31347877	0.7154	0.9235
6:32333955	0.7154	1.0569
6:31176226	0.7155	1.0277
6:29782633	0.7159	0.9743
6:32825379	0.716	0.9469
6:31002013	0.7166	0.9716
6:31699573	0.7167	0.9322
6:32787570	0.7167	0.9401
6:29710726	0.7168	0.9618

6:31106177	0.7174	0.9728
6:29833033	0.7183	0.9683
6:32945466	0.7183	0.9542
6:32273765	0.7186	0.9702
6:29694680	0.719	1.0507
6:32330695	0.7191	0.9655
6:31128552	0.7192	0.9722
6:32788707	0.7192	0.9401
6:31099577	0.7197	1.0433
6:31344098	0.7202	0.9242
6:31851354	0.7215	0.9414
6:32814975	0.7215	1.0357
6:31384479	0.7217	1.046
6:29928649	0.7218	0.9727
6:30894759	0.7224	1.0224
6:32975511	0.7224	0.9477
6:31020933	0.7226	1.031
6:32975014	0.7233	0.9702
6:30986835	0.7237	1.0235
6:31480906	0.7238	0.9754
6:30199512	0.7248	0.9765
6:31336628	0.7248	0.9239
6:32361694	0.7249	0.9496
6:30987010	0.7258	1.0469
6:31098832	0.7258	1.0334
6:30179026	0.7269	0.9767
6:30179152	0.7269	0.9767
6:32297337	0.7271	1.0525
6:30982858	0.7273	0.907
6:30846830	0.7277	0.9774
6:32176211	0.7277	1.0265
6:32585574	0.7278	0.964
6:29940106	0.7279	1.031
6:32199239	0.7279	0.9722
6:31410948	0.7281	1.0246
6:30986664	0.7282	1.0466
6:32358368	0.7289	0.9499
6:32778281	0.7293	1.0252
6:29913099	0.7296	0.9324
6:31265695	0.7299	1.052
6:31345535	0.73	0.9256

6:31363489	0.7305	0.9273
6:32281360	0.7305	0.9716
6:30988017	0.7307	0.9077
6:33016887	0.7313	0.9769
6:30193513	0.7314	0.9771
6:30889260	0.7321	1.0216
6:31360389	0.7323	0.9265
6:32254654	0.7324	1.0515
6:32298372	0.7324	1.0517
6:30204526	0.7325	1.0285
6:31449327	0.7325	1.0307
6:30007493	0.7326	0.957
6:32197736	0.733	0.9729
6:32361223	0.7334	0.9507
6:31352830	0.735	0.9256
6:33039625	0.735	0.9767
6:31017334	0.7352	1.0326
6:29691303	0.7355	1.0446
6:32216236	0.7358	0.9644
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6:32379239	0.737	0.9755
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6:32277211	0.7387	0.9725
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6:32379445	0.7406	0.9758
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6:32911814	0.7423	1.0216
6:32334754	0.7427	0.9683

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6:29820278	0.9047	1.0206
6:31497975	0.9049	0.9878
6:31199573	0.9061	1.0149
6:29827390	0.9062	1.0087
6:32757158	0.9066	1.0085
6:29831052	0.9067	1.0086
6:29830411	0.9069	1.0086
6:31379109	0.9071	0.9919
6:32757453	0.9078	1.0084
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6:30278112	0.9082	0.9854
6:30293483	0.9082	0.9854
6:30857542	0.9084	0.9907
6:30858254	0.9084	0.9907
6:31005139	0.9085	0.9926
6:30887972	0.9088	1.0096
6:29979797	0.9092	0.9873
6:31177915	0.9094	1.0162
6:30777321	0.9096	1.0106
6:31348516	0.9099	1.0082
6:30040810	0.9102	0.9893
6:32942302	0.9104	1.007
6:30781151	0.9107	1.0104
6:31382690	0.9112	0.9923
6:30224889	0.9114	0.9859
6:32657578	0.9116	1.0082
6:31206979	0.9122	0.9917
6:30855251	0.9126	0.9911
6:31892641	0.9126	1.0126
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6:31568469	0.913	0.991
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6:29831372	0.9135	1.008
6:29823994	0.9144	1.0141
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6:30359293	0.9145	1.0091
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6:29823319	0.9147	1.0141

6:29828886	0.9147	1.0141
6:29829577	0.9147	1.0141
6:32321004	0.9147	0.9896
6:30776621	0.915	1.0099
6:32747060	0.9155	1.0077
6:32057627	0.9164	1.0129
6:30781904	0.9166	1.0098
6:32224388	0.9168	1.0159
6:29824092	0.917	1.0137
6:31185977	0.9181	1.0141
6:29913137	0.9182	0.9873
6:30342753	0.9187	1.0104
6:31050348	0.9192	1.0075
6:32860752	0.9193	1.0107
6:32399286	0.9195	1.014
6:33014313	0.9195	0.9905
6:29828916	0.9198	1.0133
6:32784753	0.9198	0.9928
6:30766244	0.9199	0.9908
6:32784073	0.9199	0.9928
6:31300968	0.9201	1.0089
6:31813774	0.9202	1.0091
6:31082843	0.9204	0.9788
6:31340620	0.9205	1.009
6:31611840	0.9205	0.9906
6:30077135	0.9209	0.9899
6:31350704	0.9212	1.0072
6:30792270	0.9213	0.9912
6:32375695	0.9218	1.0076
6:31643399	0.9219	1.0075
6:31173933	0.9222	1.0092
6:31161229	0.9231	0.9922
6:29827788	0.9234	1.0128
6:31082361	0.9238	0.9792
6:32917544	0.9239	0.9905
6:31632686	0.9245	0.991
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6:30896147	0.9256	1.0078
6:31141671	0.9256	1.0107
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6:30778305	0.9265	1.0086

6:30794644	0.9265	1.0086
6:30544401	0.9274	1.0115
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6:31488145	0.9281	1.0066
6:30792235	0.9282	0.992
6:30211782	0.9283	1.006
6:30213924	0.9283	1.006
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6:32968856	0.9291	1.0064
6:30248424	0.9295	0.9889
6:29945270	0.9296	0.9906
6:32323529	0.9298	1.0127
6:32238219	0.9299	0.9927
6:31141954	0.9305	1.01
6:32804909	0.9307	0.9942
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6:30767049	0.9346	1.0076
6:31379377	0.9349	0.9943
6:32375330	0.9353	0.9938
6:33034815	0.9355	1.008
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6:32816700	0.9372	0.9929
6:29831008	0.9386	1.0104
6:32925692	0.9386	1.0048
6:32781776	0.9397	1.006
6:31350328	0.9402	0.9946
6:32855347	0.9408	1.0078
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6:31240353	0.9416	1.0092

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6:32875323	0.9426	1.0083
6:32855624	0.9428	1.0075
6:32856482	0.9428	1.0075
6:30786339	0.943	1.0067
6:32879233	0.9431	1.0083
6:30789665	0.9434	1.0066
6:31339871	0.9436	1.0063
6:31346193	0.9438	1.0057
6:32820043	0.9444	1.0125
6:32855683	0.9449	1.0072
6:32968598	0.9452	1.0049
6:30209099	0.9455	1.0045
6:32970450	0.9459	0.9958
6:31062667	0.9461	1.0044
6:31384792	0.9463	0.9952
6:32326045	0.9466	1.0093
6:31265262	0.9468	0.9925
6:32381210	0.947	0.9951
6:32255594	0.9475	0.9945
6:31388601	0.9477	1.0108
6:31389839	0.9485	1.0105
6:32741742	0.9486	1.0047
6:30791533	0.9487	1.006
6:29918059	0.9489	1.009
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6:31084639	0.9492	0.9891
6:31207920	0.9516	1.0078
6:32950511	0.9516	0.9932
6:29768917	0.9519	0.9957
6:31145839	0.9519	1.0039
6:32855275	0.9521	1.0063
6:30081742	0.9522	1.0118
6:31300414	0.9525	1.0049
6:31122482	0.9526	0.9953
6:32855366	0.9528	1.0062
6:30234991	0.953	1.0138
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6:32908211	0.9534	0.9893
6:32679462	0.9535	1.0048

6:30987176	0.9544	0.9945
6:30874165	0.9546	1.0046
6:32255269	0.9547	0.9952
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6:31085824	0.9555	0.9904
6:31272261	0.9557	1.0065
6:29700079	0.9558	1.0039
6:32277934	0.9558	0.9954
6:32354428	0.9558	0.9936
6:31121945	0.9559	0.9956
6:30790759	0.9569	0.9952
6:31698352	0.9569	0.9952
6:32257035	0.9571	0.9955
6:31257511	0.9574	1.007
6:29910663	0.9584	1.0074
6:31418124	0.9588	0.9967
6:31009055	0.959	0.9943
6:31081205	0.9591	1.0044
6:30792492	0.9594	1.0047
6:32592862	0.9594	0.9961
6:31265490	0.9595	1.0058
6:31058340	0.9597	0.9949
6:32909098	0.96	0.9908
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6:31410597	0.9624	0.9963
6:32321872	0.9632	0.9941
6:32321115	0.9633	0.9941
6:31117075	0.9634	1.0039
6:30328753	0.9635	0.9928
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6:30987098	0.964	0.9956
6:29726046	0.9641	1.0082
6:31425033	0.9643	0.9971
6:31378510	0.9645	1.0069
6:31008818	0.9646	0.9971

6:30793667	0.9648	1.0041
6:31112737	0.9648	1.0034
6:32327781	0.9651	0.9944
6:31419800	0.9654	1.0028
6:32592845	0.9655	0.9967
6:32328403	0.9656	0.9945
6:31509432	0.9662	0.9969
6:32052983	0.9666	0.9951
6:31085340	0.9667	1.0034
6:31320810	0.9669	0.995
6:30726939	0.9675	1.0037
6:32019769	0.9677	0.9955
6:30790807	0.9678	0.9964
6:29923351	0.968	1.0056
6:31409102	0.968	0.9972
6:32325707	0.9682	0.9952
6:31006092	0.9684	0.9974
6:30334994	0.9686	1.0033
6:32793981	0.9686	1.0032
6:31920873	0.9687	1.0081
6:31006855	0.9688	0.9975
6:31729359	0.9692	0.9972
6:30388701	0.9696	1.0028
6:30871185	0.9696	0.9969
6:31206920	0.9696	0.9971
6:31492025	0.9697	1.0028
6:32855458	0.9699	1.0039
6:31330546	0.9702	1.003
6:30875664	0.9706	0.997
6:30865115	0.971	0.997
6:30867666	0.971	0.997
6:30869593	0.971	0.997
6:32339076	0.971	0.9969
6:32731258	0.971	1.0039
6:31389809	0.9712	0.9974
6:29700183	0.9714	0.9938
6:31114182	0.9714	0.9975
6:31113842	0.9719	0.997
6:29700615	0.9721	0.9976
6:30792364	0.9724	0.9969
6:30871000	0.9724	0.9972

6:32918124	0.973	0.9938
6:32893102	0.9731	1.0039
6:31935567	0.9732	1.0056
6:30792867	0.9735	0.9971
6:32350868	0.9736	0.9961
6:32900787	0.9741	0.9971
6:31510105	0.9742	1.0023
6:29742809	0.9747	0.9957
6:31843924	0.975	0.9978
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6:32928984	0.9787	0.9969
6:31390055	0.9788	0.9981
6:30791561	0.9791	0.9977
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6:32911835	0.9796	0.9953
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6:31425985	0.9798	1.0048
6:31416536	0.9799	1.0044
6:31008368	0.9805	0.9984
6:31100768	0.9805	0.9979
6:30433611	0.9812	1.0019
6:29705772	0.9819	1.0031
6:29771879	0.9827	0.9983
6:32757938	0.9833	1.0015
6:32736079	0.9837	1.0032
6:32363955	0.9838	0.9975
6:30213936	0.9846	1.0013
6:31492004	0.9848	1.0014
6:32732210	0.9852	1.0021
6:31428967	0.9854	0.998
6:31730568	0.9858	1.0025
6:32915852	0.9859	0.9968
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6:32210799	0.9872	1.0013

6:31386019	0.9879	0.9976
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6:32268080	0.9882	1.0012
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6:31419042	0.9889	1.0009
6:31221299	0.9897	0.9984
6:32905853	0.9905	0.9978
6:31505480	0.9906	1.0013
6:32322393	0.9911	1.0015
6:30878769	0.9914	1.0009
6:29725452	0.9915	1.003
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6:30875145	0.9919	0.9992
6:32977535	0.992	0.9989
6:31111400	0.9921	0.9984
6:32961104	0.9921	1.0008
6:32924061	0.9922	0.9989
6:31129310	0.9923	1.001
6:31944851	0.9923	1.0014
6:30936014	0.9927	0.9993
6:31118019	0.9929	0.9994
6:31417510	0.993	1.0016
6:32243155	0.9936	0.9993
6:31007081	0.9941	0.9994
6:30875622	0.9942	1.0006
6:30716719	0.9943	0.9988
6:31587938	0.9944	1.0007
6:31417647	0.9946	1.0012
6:32289594	0.9947	0.9992
6:30878919	0.9948	1.0005
6:30773314	0.9951	0.9995
6:32817130	0.9957	0.9994
6:30773239	0.9958	1.0005
6:32804881	0.9962	1.0003
6:30877202	0.9969	1.0003
6:30993499	0.9969	0.9997
6:30875280	0.997	1.0003
6:32905685	0.997	0.9993
6:32818774	0.9975	0.9996
6:31027516	0.9978	1.0004
6:31244068	0.9991	1.0001

6:31247067	0.9996	1.0001
6:30763893	0.9997	1
6:31346445	0.9998	1

TABLE 1. STREGA reporting recommendations, extended from STROBE Statement

Item	Item number	STROBE Guideline	Extension for Genetic Association Studies (STREGA)
Title and Abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract. **Page 1, 4**	
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found. **Page 4**	
Introduction			
Background rationale	2	Explain the scientific background and rationale for the investigation being reported. **Page 6**	
Objectives	3	State specific objectives, including any pre-specified hypotheses. **Page 6**	*State if the study is the first report of a genetic association, a replication effort, or both.*
Methods			
Study design	4	Present key elements of study design early in the paper. **Pages 7-8**	
Setting	5	Describe the setting, locations and relevant dates, including periods of recruitment, exposure, follow-up, and data collection. **Pages 7-8**	

Item	Item number	STROBE Guideline	Extension for Genetic Association Studies (STREGA)
		Appendix	
Participants	6	(a) **Cohort study –** Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up. **Case-control study –** Give the eligibility criteria, and the sources and methods of case ascertainment and control selection. Give the rationale for the choice of cases and controls. **Pages 7-8; Appendix** **Cross-sectional study –** Give the eligibility criteria, and the sources and methods of selection of participants.	*Give information on the criteria and methods for selection of subsets of participants from a larger study, when relevant.*
		(b) **Cohort study –** For matched studies, give matching criteria and number of exposed and unexposed. **Case-control study –** For matched studies, give matching criteria and the number of controls per case.	
Variables	7	*(a)* Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable. **Pages 7-10; Appendix**	*(b) Clearly define genetic exposures (genetic variants) using a widely-used nomenclature system. Identify variables likely to be associated with population stratification (confounding by ethnic origin).*

Item	Item number	STROBE Guideline	Extension for Genetic Association Studies (STREGA)
Data sources measurement	8*	*(a)* For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group. **Pages 7-10; Appendix**	**(b) Describe laboratory methods, including source and storage of DNA, genotyping methods and platforms (including the allele calling algorithm used, and its version), error rates and call rates. State the laboratory/centre where genotyping was done. Describe comparability of laboratory methods if there is more than one group. Specify whether genotypes were assigned using all of the data from the study simultaneously or in smaller batches.**
Bias	9	*(a)* Describe any efforts to address potential sources of bias. **Pages 9-10; Appendix**	**(b) For quantitative outcome variables, specify if any investigation of potential bias resulting from pharmacotherapy was undertaken. If relevant, describe the nature and magnitude of the potential bias, and explain what approach was used to deal**

Item	Item number	STROBE Guideline	Extension for Genetic Association Studies (STREGA)
			with this.
Study size	10	Explain how the study size was arrived at. **Page 13**	
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen, and why. **Pages 7-10; Appendix**	*If applicable, describe how effects of treatment were dealt with.*
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding. **Pages 9-10; Appendix**	*State software version used and options (or settings) chosen.*
		(b) Describe any methods used to examine subgroups and interactions. **Pages 9-10**	
		(c) Explain how missing data were addressed. **Pages 9-10; Appendix**	

Item	Item number	STROBE Guideline	Extension for Genetic Association Studies (STREGA)
		(d) **Cohort study –** If applicable, explain how loss to follow-up was addressed. **Case-control study –** If applicable, explain how matching of cases and controls was addressed. **Pages 10-11** **Cross-sectional study –** If applicable, describe analytical methods taking account of sampling strategy.	
		(e) Describe any sensitivity analyses.	
		Pages 7-10; Appendix	*(f) State whether Hardy-Weinberg equilibrium was considered and, if so, how.*
		Page 9; Appendix	*(g) Describe any methods used for inferring genotypes or haplotypes.*
		Pages 9-10; Appendix	*(h) Describe any methods used to assess or address population stratification.*
		Page 10	*(i) Describe any methods used to address multiple comparisons or to control risk of false positive findings.*

Item	Item number	STROBE Guideline	Extension for Genetic Association Studies (STREGA)
		Appendix	*(j) Describe any methods used to address and correct for relatedness among subjects*
Results			
Participants	13*	(a) Report the numbers of individuals at each stage of the study – e.g., numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed. **Pages 7-10; Appendix**	*Report numbers of individuals in whom genotyping was attempted and numbers of individuals in whom genotyping was successful.*
		(b) Give reasons for non-participation at each stage.	
		(c) Consider use of a flow diagram.	
Descriptive data	14*	(a) Give characteristics of study participants (e.g., demographic, clinical, social) and information on exposures and potential confounders. **Table 1, Pages 10-11**	*Consider giving information by genotype.*
		(b) Indicate the number of participants with missing data for each variable of interest.	

Item	Item number	STROBE Guideline	Extension for Genetic Association Studies (STREGA)
		(c) **Cohort study –** Summarize follow-up time, e.g. average and total amount.	
Outcome data	15 *	**Cohort study-**Report numbers of outcome events or summary measures over time.	*Report outcomes (phenotypes) for each genotype category over time*
		Case-control study – Report numbers in each exposure category, or summary measures of exposure.	*Report numbers in each genotype category*
		Cross-sectional study – Report numbers of outcome events or summary measures.	*Report outcomes (phenotypes) for each genotype category*
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (e.g., 95% confidence intervals). Make clear which confounders were adjusted for and why they were included. **Pages 10-13**	

Item	Item number	STROBE Guideline	Extension for Genetic Association Studies (STREGA)
		(b) Report category boundaries when continuous variables were categorized.	
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period.	
		Pages 15; Table 3	*(d) Report results of any adjustments for multiple comparisons.*
Other analyses	17	(a) Report other analyses done – e.g., analyses of subgroups and interactions, and sensitivity analyses. **Page 14**	
		Pages 11-12	*(b) If numerous genetic exposures (genetic variants) were examined, summarize results from all analyses undertaken.*
		Pages 11-12 (mentions supplemental data)	*(c) If detailed results are available elsewhere, state how they can be accessed.*
Discussion			

Item	Item number	STROBE Guideline	Extension for Genetic Association Studies (STREGA)
Key results	18	Summarize key results with reference to study objectives. **Pages 12-13**	
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias. **Pages 15-16**	
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence. **Pages 15-16**	
Generalizability	21	Discuss the generalizability (external validity) of the study results. **Pages 15-16**	
Other Information			
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on which the present article is based. **Page 23**	

STREGA = STrengthening the REporting of Genetic Association studies; STROBE = STtrengthening the Reporting of Observational Studies in Epidemiology.

* Give information separately for cases and controls in case-control studies and, if applicable, for exposed and unexposed groups in cohort and cross-sectional studies.