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Host genotype and amoxicillin administration affect the incidence of diarrhoea and faecal microbiota of weaned piglets during a natural multiresistant ETEC infection

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Host genotype and amoxicillin administration affect the incidence of diarrhoea and faecal microbiota of weaned piglets during a natural multi-resistant ETEC infection.

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Subject Area:	Antibiotic-resistance, Escherichia coli, FUT1, gut microbiota, MUC4, swine

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4 **microbiota of weaned piglets during a natural multi-resistant ETEC infection.**
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8 4 Massacci F.R.^{1,2,3*}, Tofani S.¹, Forte C.¹, Bertocchi M.², Lovito C.¹, Orsini S.¹, Tentellini M.¹, Marchi
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29 16 **Summary**
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32 18 Enterotoxigenic *Escherichia coli* (ETEC) is the etiological agent of post-weaning diarrhoea (PWD)
33 19 in piglets. The SNPs located on the *Mucine 4 (MUC4)* and *Fucosyltransferase 1 (FUT1)* genes have
34 20 been associated with the susceptibility to ETEC F4 and ETEC F18, respectively. The interplay
35 21 between the *MUC4* and *FUT1* genotypes to ETEC infection and the use of amoxicillin in modifying
36 22 the intestinal microbiota during a natural infection by multi-resistant ETEC strains have never been
37 23 investigated. The aim of this study was to evaluate the effects of the *MUC4* and *FUT1* genotypes and
38 24 the administration of amoxicillin through different routes on the presence of diarrhoea and the faecal
39 25 microbiota composition in piglets naturally infected with ETEC. Seventy-one piglets were divided
40 26 into three groups: two groups differing by amoxicillin administration routes – parenteral (P) or oral
41 27 (O) and a control group without antibiotics (C). Faecal scores, body weight, presence of ETEC F4
42 28 and F18 were investigated 4 days after the arrival in the facility (T0), at the end of the amoxicillin
43 29 administration (T1) and after the withdrawal period (T2). The faecal bacteria composition was
44 30 assessed by sequencing the 16S rRNA gene. We described that *MUC4* and *FUT1* genotypes were
45 31 associated with the presence of ETEC F4 and ETEC F18. The faecal microbiota was influenced by
46 32 the *MUC4* genotypes at T0. We found the oral administration to be associated with the presence of
47 33 diarrhoea at T1 and T2. Furthermore, the exposure to amoxicillin resulted in significant alterations of
48 34 the faecal microbiota. Overall, the *MUC4* and *FUT1* were confirmed as genetic markers for the

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susceptibility to ETEC infections in pigs. Moreover, our data highlight that group amoxicillin treatment may produce adverse outcomes on pig health in course of multi-resistant ETEC infection. Therefore, alternative control measures, able to maintain a healthy faecal microbiota in weaners **are recommended**.

Keywords

Antibiotic-resistance, *Escherichia coli*, *FUT1*, gut microbiota, *MUC4*, swine.

For Peer Review

47 Introduction

48
49 Weaning is considered the main critical period for pigs raised in intensive farms (Lallés, Bosi, Smidt,
50 & Stokes, 2007). This phase may be associated with the onset of gastrointestinal disorders with post-
51 weaning diarrhoea (PWD), caused by Enterotoxigenic *Escherichia coli* (ETEC) that play a major role
52 (Baker, Billey, & Francis, 1997; Luppi, 2017). PWD leads to pig morbidity and mortality causing
53 considerable economic losses to farmers worldwide (Fairbrother & Gyles, 2012). The ETEC strains
54 possess fimbrial adhesins, identified as F4 or F18, that mediate microbial attachment to the intestinal
55 epithelium (Luppi, 2017). These fimbriae allow ETEC to adhere to specific receptors on the brush
56 border membrane of the small intestine enterocytes (Fairbrother & Gyles, 2012). Beside adhesion,
57 ETEC strains secrete enterotoxins able to impair enterocyte functions by increasing cell cation
58 exchanges and reducing water absorption (Sun & Woo, 2017), finally resulting in a severe diarrhoea.
59 Piglets are not equally susceptible to ETEC infection. Susceptibility to ETEC F4 has been associated
60 to a single nucleotide polymorphism (SNP) located in intron 7 (g.13:8227C>G) of the *Mucin 4* gene
61 (*MUC4*) (Jørgensen et al., 2004; Luise et al., 2019; Rampoldi et al., 2011). Piglets with *MUC4*^G-
62 genotypes express the F4 receptor and are considered susceptible to ETEC F4 infection, while piglets
63 with *MUC4*^{CC} genotype are associated with the resistant phenotype (Jørgensen et al., 2003). On the
64 other hand, susceptibility to the ETEC F18 infection appears to be dependent on the activity of the
65 alpha-fucosyltransferase-1 (*FUT1*) gene, which is the candidate gene for the adhesion to F18 receptor.
66 The g.6:54079560T>C SNP located on *FUT1* gene has been associated with the susceptibility to
67 ETEC F18 infection; piglets with *FUT1*^C- genotypes appear susceptible to ETEC F18 while piglets
68 with *FUT1*^{TT} genotype are resistant to the infection (Meijerink et al., 1997; Muñoz et al., 2018; Vogeli
69 et al., 1997; Wang et al., 2012).

70 At weaning, the gut microbiota of piglets is characterized by a severe compositional changes (Mach
71 et al., 2015), which might impair the barrier effect exerted by symbiotic bacteria towards enteric
72 pathogens (Konstantinov et al., 2006). Notably, the abrupt decrease of *Lactobacillus* spp. at weaning
73 could increase the risk of enteritis, since bacteria belonging to this genus play a major role in disease
74 prevention (Konstantinov et al., 2006). Moreover, the gut microbiota composition of piglets at
75 weaning is also influenced by the host genetic background and by ETEC F4 and ETEC F18 infections
76 (Bin et al., 2018; Messori, Trevisi, Simongiovanni, Priori, & Bosi, 2013; Poulsen et al., 2018).
77 Finally, the administration of antibiotics, which is often recorded in this production phase, impacts
78 the microorganism abundance and may cause a severe disruption of the gut microbiota ecosystem
79 (Blaser, 2016; Mulder et al., 2009; Schokker et al., 2014; Soler et al., 2018; D. Zhang et al., 2016).

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80 In European farms, amoxicillin is the main antimicrobial molecule used at weaning, mainly to control
81 ETEC and *Streptococcus suis* infections (Burch & Sperling, 2018). This antibiotic is currently used
82 for therapeutic or metaphylactic purposes and it can be administered either by the parenteral or oral
83 route, for animal group treatment. However, concerns have been expressed for the use of oral
84 formulations, since they exert a selective pressure on the gut microbiota (Kim, Covington, & Pamer,
85 2018; Stanisavljevi et al., 2019; L. Zhang, Huang, Zhou, Buckley, & Wang, 2013). Consequently,
86 antibiotic-resistant bacteria or resistance determinants may increase in the gut microbiota, making it
87 a potential *reservoir* of antibiotic resistance. Strikingly, the oral administration of amoxicillin has
88 been associated with an increase of extended-spectrum beta-lactamase (ESBL) *E. coli* in pigs
89 (Cameron-Veas, Solà-Ginés, Moreno, Fraile, & Migura-Garcia, 2015). Of greater concern is the
90 spread of multi-drug resistant ETEC strains in European pig herds (Magistrali et al., 2018; Rosager
91 et al., 2017; Smith et al., 2010). In this scenario, a full understanding of the impact of group
92 antimicrobial treatments on gut health in field conditions is long overdue.

93
94 **The** interplay between the resistance/susceptibility genotypes to ETEC infection and the use of
95 amoxicillin in modifying the intestinal microbiota during a natural outbreak of PWD has never been
96 investigated.

97
98 The hypothesis of this study was that the host genotypes for *MUCA4* and *FUT1* and the route of
99 administration of amoxicillin could affect the development of PWD and the faecal microbiota
100 composition in weaning piglets naturally infected by ETEC.

101 **Materials and Methods**

103 ***Animal experimental design***

104 Animals were allocated at the animal experimental facility of the Istituto Zooprofilattico Sperimentale
105 dell' Umbria e delle Marche "Togo Rosati" (Perugia, Italy) and were left to acclimatize 4 days before
106 the onset of the experiment. The experiment was authorized by the Italian Ministry of Health
107 (Authorization n°68/2018-PR of 31-01-2018), according to the Italian and European regulations
108 (Directive 2010/63/EU, D.L. 26/2014), and was carried out under the supervision of certified
109 veterinarians.

110 Seventy-two animals were purchased from an Italian herd, positive for ETEC infection, neither piglets
111 nor sows were vaccinated against ETEC and piglets never received antibiotic before entering in the
112 experimental facilities. One piglet was removed from the study, because the animal died within the
113 first week of the experiment. A diagnosis of colibacillosis was made based on lesions and the isolation
114 of ETEC F4 from the gut, according to Luppi (2017).

115 Seventy-one piglets (35 females and 36 males) were divided into three groups (P, O and C) balanced
116 for litter of origin, sex, age at weaning, and weight (Figure S1).

117 Group P (23 piglets) received parenteral administration of amoxicillin (Longocillina L.A.; CEVA),
118 group O (24 piglets) was administrated with oral amoxicillin (Amoxione; Vetoquinol) and group C
119 (24 piglets) received a placebo made with water and was considered the control group. Each pig of
120 group P received the antibiotic *via* intramuscular injection with the recommended dosage of 15 mg/kg
121 bodyweight two administrations at 48 hours interval. The group O received 12-20 mg/kg bodyweight
122 of the suspension orally twice a day, approximately 7:00 am and 7:00 pm for 5 days. Animals were
123 fed with a starter diet from the day of the arrival (d0) until the end of the experiment (d16). The
124 composition of the diet is shown in Table S1.

125 Animals arrived in the facility the day of weaning (d31, N=36 and d38, N=35). Animals were
126 evaluated 4 days after their arrival (T0), following a 4-day period for acclimatization, at the end of
127 the amoxicillin administration (T1) and again 7 days corresponding to the withdrawal period of the
128 antibiotic (T2).

129 Individual fecal samples were collected and fecal consistency scores were individually evaluated at
130 each time point. Fecal scores were categorized after visual observation of the certified veterinarian
131 supervising the experiment as follows: 0= normal stools; 1= loose stools; 2= watery diarrhoea. The
132 individual body weight was also recorded at each time point.

134 ***Microbiological culture, antimicrobial susceptibility testing***

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3 135 To evaluate the susceptibility profiles to antibiotics of the ETEC strains, standard bacteriological tests
4 136 at each time point were performed.

6 137 Briefly, the primary isolation from individual fecal samples was carried out on blood agar plates
8 138 (Blood Agar Base, Biolife Italiana Srl, Milan, Italy), supplemented with 5% sheep red blood cells.

10 139 Plates were incubated at 37°C overnight. Haemolytic *E. coli* isolates were identified using standard
11 140 biochemical procedures (RapidAPI32E, bioMérieux Italia Spa, Bagno a Ripoli, FI, Italia), followed
12 141 by species-specific PCR as described in the following section “ETEC PCR for adhesin detection”.

15 142 The isolates resulting positive for the fimbriae factors F4 and F18 were tested for antimicrobial
16 143 susceptibility using the agar diffusion method on Muller Hinton Agar (Oxoid Ltd, Cambridge, UK),
17 144 according to the EUCAST guidelines (The European Committee on Antimicrobial Susceptibility
20 145 Testing, 2017). *E. coli* ATCC 25922 was used as control strain. The following antimicrobial discs
22 146 (Oxoid Ltd, Cambridge, UK) were tested: ampicillin (10 µg), amoxicillin/clavulanic acid (30 µg),
23 147 cefotaxime (30 µg), cephazolin (30 µg), chloramphenicol (30 µg), ciprofloxacin (5 µg), gentamicin
25 148 (10 µg), kanamycin (30 µg), nalidixic acid (30 µg), streptomycin (10 µg), sulphonamides (300 µg),
26 149 tetracycline (30 µg) and sulphamethoxazole/ trimethoprim (25 µg). The interpretation of inhibition
27 150 diameters was carried out following the EUCAST breakpoint tables (The European Committee on
30 151 Antimicrobial Susceptibility Testing, 2017) with the exception of cefazolin, enrofloxacin, kanamycin,
32 152 nalidixic acid, sulphonamides, tetracycline and sulphamethoxazole/ trimethoprim for which CLSI
34 153 M100 breakpoints were used (CLSI, 2018). Intermediate results were classified as resistant.

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37 155 ***Blood sample collection and DNA analysis from blood samples***

39 156 Blood samples were collected by venepuncture of *v. jugularis* on all piglets at T0. Genomic DNA
40 157 was extracted from blood samples following the procedure of the kit NucleoSpin Blood (Macherey
42 158 Nagel-740951.250). The Nanodrop instrument was used to assess the quality and quantity of the
44 159 extracted DNA.

46 160 Genotyping of the g.13:8227C>G SNP located on the *MUC4* gene and the g.6:54079560T>C SNP
47 161 located on *FUT1* gene was carried by using the PACE™ Genotyping approach
49 162 (<https://3crbio.com/wp-content/uploads/2019/01/PACE-IR-User-Guide-v1.5.pdf>).

51 163 To assess the genotype of the *MUC4* gene, the following primers were used: 5’-
52 164 GAAGGTGACCAAGTTCATGCTATTTGTACCTCAGTTTCTGTATCTG-3’ for the allele C
53 165 (allele 1), 5’-GAAGGTCGGAGTCAACGGATTCTATTTGTACCTCAGTTTCTGTATCTC-3’ for
54 166 the allele G (allele 2) and the common primer 5’-ACAACAACCCCATGAAGGAGATCTATTTT-
55 167 3’. Regarding the *FUT1* gene, the following primers were used: 5’-
56 168 GAAGGTGACCAAGTTCATGCTGCGGCCGTTGAGCTGCGC-3’ for the allele C (allele 1), 5’-

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3 169 GAAGGTCGGAGTCAACGGATTGCGGCCGTTGAGCTGCGT-3' for the allele T (allele 2) and
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5 170 the common primer 5'-GATGGCCGGTTTGGGAACCAGAT-3' were used in the genotyping assay.
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7 171 After thermal cycling was complete, the fluorescent signal was detected by reading the plate in the
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9 172 QuantStudio 12k Flex instrument (Applied BioSystems, ThermoFisher Scientific).

10 173 11 12 174 ***Fecal sample collection and DNA analysis from fecal samples***

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14 175 Faecal samples were collected from the piglet rectum at three different time points: at T0, at T1 and
15 176 at T2. All faecal samples were directly frozen in liquid nitrogen and further stored at -80°C until use.
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17 177 Genomic DNA of each fecal sample was extracted the Qiagen QIAamp DNA stool kit, following the
18
19 178 modified protocol of Dore *et al.*, (2015).

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21
22 180 The DNA extracted from fecal samples was analysed by PCR endpoint in order to assess the
23
24 181 presence/absence of the genes encoding adhesins F4 and F18 (Casey & Bosworth, 2009).

25 182
26
27 183 Microbial profiling was performed using high-throughput sequencing of the V3-V4 hypervariable
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29 184 region of the 16S rRNA gene (2x250 bp paired-end reads) on an Illumina MiSeq platform following
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31 185 the standard Illumina sequencing protocol and by using primers PCR1F_343 (5'-
32
33 186 CTTCCCTACACGACGCTCTTCCGATCTACGGRAGGCAGCAG-3') and PCR1R_784 (5'-
34 187 GGAGTTCAGACGTGTGCTCTTCCGATCTTACCAGGGTATCTAATCCT-3'). The generated
35
36 188 FastQ files were first quality checked though the FastQC software
37
38 189 (<https://www.bioinformatics.babraham.ac.uk/projects/fastqc/>) and then analysed using the
39
40 190 Quantitative Insights Into Microbial Ecology (QIIME) v1.9.1 package (Caporaso *et al.*, 2010) by
41 191 following the open-reference sub-sampled OTU calling strategy (Rideout *et al.*, 2014). Singleton
42
43 192 Operational Taxonomical Units (OTUs) and OTUs with a number of sequences less than 0.005% of
44
45 193 the total number of sequences were removed from the dataset (Bokulich *et al.*, 2012). Chimeric
46 194 sequences were removed using QIIME and by using the BLAST algorithm. All samples with less
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48 195 than 10,000 post-quality control reads were removed from the analysis, which resulted in eliminating
49
50 196 only one sample (pig number 622 sampled at T2).

51 197 52 53 198 ***Biostatistical analysis***

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55 199 Basic statistics for the analysis of pig weight were estimated in R v.3.6.0 (TeamCore, 2018) by
56
57 200 performing ANOVA analyses with the "aov" function. The Fisher test was used to correlate the
58
59 201 *MUC4* and *FUT1* genotypes with the excretion of ETEC F4 and ETEC F18 and the fecal scores.
60 202 Moreover, the Fisher test was carried out to evaluate the links between the presence of ETEC F4 and

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3 203 ETEC F18 with the fecal scores. In our analyses, the fecal categories 0 and 1 were considered as
4 “negative” and the score 2 as “positive” for the presence of diarrhoea. Regarding the *MUC4* and
5 204 *FUT1* genes, we have considered as “resistant” the animals *MUC4*^{CC} and *FUT1*^{TT} and “susceptible”
6 205 the animals harbouring *MUC4*^{CG}, *MUC4*^{GG}, *FUT1*^{CT} and *FUT1*^{CC} genotypes. Differences among the
7 206 pig weight and the sex, age, litter of origin, administration routes, *MUC4* and *FUT1* genotypes,
8 207 susceptibility to ETEC F4 and ETEC F18, and presence/absence of diarrhoea were assessed using
9 208 ANOVA test and if showing a significant p-value, we performed a *post-hoc* test using the Tukey’s
10 209 Honest Significant Differences (HSD) test.
11 210

12 211 For the analysis of microbiota composition, the biom OTU table was imported into R with Phyloseq
13 212 package (v.1.28.0) (McMurdie & Holmes, 2013). Vegan v2.5-5 package (Oksanen et al., 2019) was
14 213 used for the rarefaction on the OTU level of each experimental group. Richness and diversity analyses
15 214 were performed at the OTU level. Alpha diversity was calculated with Shannon index, beta diversity
16 215 through the Whittaker's index and richness was evaluated as the total number of OTUs present in
17 216 each sample. To assess the diversities, the ANOVA was performed on α and β diversity and on log₁₀
18 217 richness using the “aov” procedure in R. The Tukey’s HSD was also calculated. Vegan’s Non-Metric
19 218 Multidimensional Scaling (NMDS), using the Bray-Curtis distance and with the “metaMDS” function
20 219 that standardizes the scaling in the result, was used to represent the global diversity of faecal
21 220 microbiota composition between samples. The function “envfit” in Vegan was used to fit
22 221 environmental factors onto the NMDS ordination to compare the groups and evaluate the statistical
23 222 significance. The permutational Multivariate Analysis of variance (PERMANOVA) using the Bray-
24 223 Curtis distance was performed using the “adonis” function in order to assess the community
25 224 differences between groups. The significance threshold was set at $p < 0.05$.

26 225 The differential abundance analysis was performed using the function “fitZig” in the metagenomeSeq
27 226 (v.1.26.0) package at the OTU level (Paulson, Stine, Bravo, & Pop, 2013). The *MUC4* genotype and
28 227 the age at T0, the antimicrobial treatment at T1, the fecal score (categories: 0, 1, 2) and the
29 228 antimicrobial treatment at T2 were taken into account in the model as co-factors. In order to make a
30 229 pairwise comparison of differentially abundant OTUs between the experimental groups (C vs. P, C
31 230 vs. O, P vs. O), we performed the differential abundance analysis at T1 and at T2, using “fitZig”
32 231 function. The resulting differentially abundant (DA) OTUs have been plotted in Venn diagrams using
33 232 Venny 2.1 (Oliveros, 2013).
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Results

Microbiological culture and antimicrobial susceptibility testing

Results showed that the piglet groups were naturally infected by ETEC F4 (N =50) and F18 (N =20) at T0, while only F18 (N =61) was still detected at T1. Few animals were positive for ETEC F4 (N =3) and F18 (N =8) at T2 (Figure S2; Table S2). In particular, at T0 43 animals tested positive for ETEC F4 and negative for ETEC F18 while 7 piglets were positive for both; 8 animals were negative for both ETEC F4 and F18 and 13 animals were negative for ETEC F4 and positive for ETEC 18. Regarding the susceptibility testing, both the ETEC F4 and ETEC F18 isolates were classified as multi-resistant, showing resistance to beta-lactams (ampicillin and amoxicillin/clavulanic acid), phenicols (chloramphenicol), quinolones (ciprofloxacin and nalidixic acid), sulphonamides (sulphonamides and sulphamethoxazole/ trimethoprim) and tetracycline. The ETEC F4 isolates, differently from the ETEC F18 ones, were also resistant to streptomycin. Both ETEC F4 and ETEC F18 showed susceptibility to cephalosporins (cefazolin and cefotaxime), gentamicin and kanamycin.

Animal genotypes for MUC4 and FUT1

For *MUC4*, 19 pigs had *MUC4^{CC}* resistant genotype for ETEC F4 and 52 had the susceptible genotype for ETEC F4 (36 *MUC4^{CG}* and 16 *MUC4^{GG}*). As regards to *FUT1*, 13 *FUT1^{TT}* for ETEC F18 resistant pigs and 58 for ETEC F18 susceptible pigs (25 *FUT1^{CC}* and 33 *FUT1^{CT}*) were observed (Figure S2). Overall, 52 and 58 pigs had a genotype susceptible to ETEC F4 and F18, respectively. Forty-one pigs were susceptible to both ETECs (6 were *MUC4^{GG}*, *FUT1^{CC}*; 6 were *MUC4^{GG}*, *FUT1^{CT}*; 9 were *MUC4^{CG}*, *FUT1^{CC}* and 20 were *MUC4^{CG}*, *FUT1^{CT}*). Nine pigs were susceptible for ETEC F4 while being resistant for F18 (two had *MUC4^{GG}*, *FUT1^{TT}* and 7 had *MUC4^{CG}*, *FUT1^{TT}*). In addition, 17 pigs were resistant for ETEC F4 and susceptible for ETEC F18 (7 pigs were *MUC4^{CC}*, *FUT1^{CT}* and 10 pigs were *MUC4^{CC}*, *FUT1^{CC}*). Two pigs were resistant to both ETECs, showing the variants *MUC4^{CC}* and *FUT1^{TT}*. The composition of the experimental groups according to the pigs' genotypes is reported in Table S3.

Animal phenotypes and correlation with genotypes

All phenotypic traits are summarized in table S2.

ANOVA tests on the individual body weights did not show significant differences among the groups at any of the three time points ($p > 0.05$). Moreover, the sex of the animals and the presence/absence of diarrhoea did not affect the weight of the animals ($p > 0.05$). Using the ANOVA analysis, the weight was different between the two ages of the piglets at the three time points (T0, $p = 0.003$; T1, $p = 0.0005$;

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3 269 T2, $p=0.0004$) and consequently by litter of origin (T0, $p=0.002$; T1, $p=0.0001$; T2, $p=0.0003$). The
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5 270 younger piglets (d31) weighted less than the older piglets (d38) at weaning; however, animals were
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7 271 balanced in all the three groups. At T0, *MUC4* and *FUT1* genotypes, presence of ETEC F4 and ETEC
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9 272 F18 did not affect the weight of animals.

10 273 At T1, ANOVA showed differences in the piglets body weight according to the *FUT1* gene (ANOVA,
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12 274 $p=0.01$). The *post-hoc* test showed differences between *FUT1*^{CC} and *FUT1*^{CT} genotypes (Tukey's
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14 275 HSD, $p=0.01$), but did not show differences between the comparison of *FUT1*^{CC} vs. *FUT1*^{TT} and
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16 276 between *FUT1*^{CT} vs. *FUT1*^{TT} (Tukey's HSD, $p>0.05$). *MUC4* genotypes and the presence of ETEC
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18 277 F18 did not affect the weight of animals ($p>0.05$).

19 278 Moreover, at T2 we described that the weight was influenced by the *FUT1* gene (ANOVA, $p=0.02$)
20
21 279 which were referred to *FUT1*^{CC} and *FUT1*^{CT} (Tukey's HSD, $p=0.04$) and not to *FUT1*^{CC} vs. *FUT1*^{TT}
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23 280 or *FUT1*^{CT} vs. *FUT1*^{TT} (Tukey's HSD, $p>0.05$). *MUC4* genotypes, the presence of ETEC F4 and
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25 281 ETEC F18 did not affect the weight of animals ($p>0.05$).

26 282 The fecal scores were recorded and the results at each time points are reported in Figure S2. At T0,
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28 283 we described 43, 11 and 17 animals with 0, 1 and 2 category of fecal score, respectively; at T1 we
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30 284 observed a higher number of animals with diarrhoea (fecal score 2; N=25) than without diarrhoea
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32 285 (fecal score 0, N=17; fecal score 1, N=29). At T2, the fecal consistencies of piglets fell in categories
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34 286 0 (N=34) and 1 (N=27), with only 10 animals presenting diarrhoea.

35 287 At T0, Fisher tests showed that susceptible *MUC4* genotypes were significantly associated with the
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37 288 presence of ETEC F4 ($p=0.003$) and the occurrence of diarrhoea (categories 0, 1= negative for
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39 289 diarrhoea; category 2= positive for diarrhoea) ($p=0.01$). However, the *MUC4* resistant genotype was
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41 290 associated with an ETEC F4 negative status but also with a higher diarrhoea score. In this case, 9/19
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43 291 animals with a *MUC4* resistant genotype and 8/52 animals with a *MUC4* susceptible genotype showed
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45 292 diarrhoea (Figure S2, Table 1). At T1, no ETEC F4 was detected. We found that *FUT1* genotypes
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47 293 were significantly associated with the presence of ETEC F18 ($p=0.01$) but not with the fecal scores
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49 294 ($p>0.05$) at T1; however, the cases of diarrhea were more frequent in susceptible *FUT1* animals than
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51 295 in the resistant *FUT1* piglets. At T2, we did not describe any effect taking into account the *MUC4*
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53 296 and *FUT1* genotypes associated with either the ETEC F4 and ETEC F18 infections or the fecal scores
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55 297 (Figure S2, Table 1). No association was found between the fecal score and the presence of ETEC F4
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57 298 or F18 ($p>0.05$) at each time point.

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59 300 ***Correlation between the antibiotic administration routes and the ETEC status***

60 301 Antibiotic administration did not influence the ETEC F4 status of the animals at the three time points
302 ($p>0.05$). Conversely, antibiotic administration showed a significant association with the status of

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3 303 ETEC F18 at T1 ($p=0.017$), with the group P having less ETEC F18 positive pigs ($N=17$) than the
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5 304 other two groups (Group O, $N=24$ and Group C, $N=20$). At T2 a difference in the number of ETEC
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7 305 F18 positive pigs was observed in the three groups ($p=0.004$): seven animals were ETEC F18 positive
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9 306 in the group treated orally, while only one ETEC F18 positive piglet was found in the group C and
10 307 none in the group P. Moreover, the antibiotic treatments were associated with the fecal score at T1
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12 308 ($p=0.009$) and at T2 ($p=0.02$), with more animals showing diarrhoea in the group O compared to the
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14 309 other two groups (Figure S2, Table 2).

15 310 16 17 311 ***Faecal microbiota sequencing, identification and annotation of OTUs***

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19 312 After quality control, a mean of 36706 reads were available for each sample. OTU counts per sample
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21 313 and OTU taxonomical assignments are available in supplementary Table S4. Sequences across the
22 314 whole sample sets were successfully clustered into 1080 OTUs and only (10/1080) 0.92% of the
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24 315 OTUs could not be assigned to any phylum. Globally, 553 out of 1080 OTUs were annotated at the
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26 316 genus level (51%). The Firmicutes (584/1080) and Bacteroidetes (391/1080) phyla represented 54%
27 317 and 36% of the annotated OTUs, respectively. The 97% (567/584) OTUs belonging to the Firmicutes
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29 318 phylum were assigned to the Clostridiales order, 48% (254/567) to the Ruminococcaceae family and
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31 319 27% (152/567) to the Lachnospiraceae family. The 54% (209/391) OTUs annotated to the
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33 320 Bacteroidetes phylum were assigned to the *Prevotella* genus. Other phyla were also present but with
34 321 lower percentages of OTUs (e.g. 5% Proteobacteria, 2% Spirochaetes, 0.5% Actinobacteria, 0.3%
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36 322 Fusobacteria, 0.3 Fibrobacteres, 0.3% Actinobacteria, 0.2% Deferribacteres, 0.04% Tenericutes;
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38 323 Figure S3). The effect of the time resulted to be significant between time points, showing clusters in
39 324 the NMDS plot (envfit test, $p=0.004$; Figure S4).

40 41 325 42 43 326 ***Differences in the faecal microbiota at T0 in piglets***

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45 327 The overall composition of the microbiota at T0 (NMDS, Figure 1) was mainly driven by *MUC4*
46 328 gene (Adonis test, $p=0.004$), the age of the piglets (Adonis test, $p=0.001$) and the fecal score
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48 329 (Adonis test, $p=0.001$), whereas *FUT1* genotype and the presence of ETEC F4 and ETEC F18 had
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50 330 no influence (Adonis test, $p>0.05$). The beta diversity was different only between the class of ages of
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52 331 the piglets (ANOVA test, $p=0.001$; Figure S5B) showing that the group weaned at 38 days of age had
53 332 a lower beta diversity, comparing to the animals of 31 days of age, but animals were equally
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55 333 distributed in groups P, C and O (Figure S1B). In the NMDS plot, the *MUC4* genotypes (envfit test,
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57 334 $p=0.018$; Figure 1A), the age of piglets (envfit test, $p=0.039$; Figure 1B) and the fecal score (envfit
58 335 test, $p=0.0004$; Figure 1C) showed significant values for the envfit analysis. The alpha diversity at
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60 336 OTU level was not different between the groups taking into account the *MUC4* gene and the fecal

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3 337 score (ANOVA test, $p>0.05$; Figure S5A, S5C), but the co-factor age of the piglets revealed
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5 338 differences (ANOVA test, $p=0.002$; Figure S5B), showing the 38 days-old piglets had a higher alpha
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7 339 diversity. Moreover, the same finding was described in the observed microbial richness between the
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9 340 groups when analysing the *MUC4* gene and the fecal score effect (ANOVA test, $p>0.05$; Figure S5A,
10 341 S5C) and the age of piglets (ANOVA test, $p=0.001$; Figure S5B).

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12 342 Since the presence of diarrhoea was correlated with the *MUC4* gene, the *MUC4* genotype and the age
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14 343 at T0 were used in the model of the differential analysis at the OTUs level, describing 68 DA OTUs
15 344 (Table S5; Figure S6A). Globally, OTU belonging to *Oscillospira* genera and the *Actinobacillus*
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17 345 *porcinus* were more abundant in the resistant *MUC4* genotype. Moreover, the same differential
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19 346 analysis was carried out taking into account in the model only the diarrhoea phenotype (fecal scores
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21 347 0 and 1= negative; fecal score 2= positive) and we identified 153 DA OTUs (Table S6; Figure S6B).
22 348 Among them, 71 DA OTUs were more abundant in animals without diarrhoea and 82 OTUs were
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24 349 overabundant in piglets with diarrhoea. OTUs more abundant in pigs without diarrhoea belonged
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26 350 mainly to Ruminococcaceae and Christensenellaceae families. *Bacteroides*, *Parabacteroides*,
27 351 *Fusobacterium* genera and Pasteurellaceae family were predominant among the OTUs more abundant
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29 352 in the diarrhoeal animals.

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32 354 ***Differences in the faecal microbiota at T1 in piglets***

34 355 The overall composition of the microbiota at T1 (NMDS, Figure 2A) was mainly driven by the
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36 356 antibiotic treatment (Adonis test, $p = 0.0009$), whereas *MUC4* and *FUT1* genotypes, ages, fecal score
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38 357 and the status of ETEC F4 and ETEC F18 had no influence (Adonis test, $p>0.05$). The beta diversity
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40 358 was not different between the antimicrobial treatment groups (ANOVA test, $p>0.05$; Figure 2B). In
41 359 the NMDS plot, the centroids of the group O appeared separated from the other two groups, resulting
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43 360 in a significant value (envfit test, $p=0.02$; Figure 2A). The alpha diversity at OTU level was different
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45 361 between the antimicrobial groups (ANOVA test, $p=0.03$; Figure 2B), showing a lower alpha diversity
46 362 in the group O. Nevertheless, the observed microbial richness did not show differences between the
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48 363 antimicrobial treatment groups (ANOVA test, $p>0.05$; Figure 2B).

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50 364 The antibiotic administration groups had 187 DA OTUs (Table S7; Figure S6C) in metagenomeSeq
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52 365 analyses. There were several OTUs annotated as *Lactobacillus* spp. in the whole dataset. Since at
53 366 least one OTU was found DA in most comparisons between experimental groups, we decided to
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55 367 further explore the global abundance of *Lactobacillus* spp. by adding the abundances of the OTUs in
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57 368 the whole dataset at T1 (OTUs 292057, 24271, 725198, 536754, 588197, 549756, 553352, 302975,
58 369 703741, 807795). Normalized global abundance of *Lactobacillus* in each group clearly showed an
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60 370 increase of abundance in the group C and in the group P comparing to the group O (Figure 3A).

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3 371 Accordingly, ANOVA analyses showed significant differences ($p=8.56 \times 10^{-5}$) among the three
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5 372 groups at the OTUs level. In addition, the *post-hoc* test showed differences between the O vs. C group
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7 373 (Tukey's HSD, $p=0.0001$), P vs. O group (Tukey's HSD, $p=0.01$) and did not show a significant *p*-
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9 374 value among C vs. P group (Tukey's HSD, $p>0.05$). When comparing two groups, we have described
10 375 144 DA OTUs in the comparison P vs. O, 127 O vs. C and 65 by comparing P vs. C (Tables S8, S9
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12 376 and S10, respectively). In the Venn diagram, the overlapping DA OTUs between the two by two
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14 377 groups comparison is showed (Figure 2C).

15 378 16 17 379 ***Differences in the faecal microbiota at T2 in piglets***

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19 380 The overall composition of the microbiota at T2 (NMDS, Figure 4) was mainly linked to the antibiotic
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21 381 treatment (Adonis test, $p=0.0001$) and the fecal score (Adonis test, $p=0.0002$), whereas *MUC4*,
22 382 *FUT1* genotypes, the age and the presence of ETEC F4 and ETEC F18 had no influence (Adonis test,
23
24 383 $p>0.05$). The beta diversity was not significantly different across the antimicrobial treatment groups
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26 384 (ANOVA test, $p>0.05$). In the NMDS plot, the centroids of the group O appeared separated from the
27 385 P and the C group, resulting in a significant value (envfit test, $p=0.03$; Figure 4A). The alpha diversity
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29 386 at OTU level and the observed microbial richness did not show differences among the groups
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31 387 (ANOVA test, $p>0.05$; Figure 4B). Moreover, the antibiotic administration differential analysis at the
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33 388 OTUs level identified 124 DA OTUs (Table S11; Figure S6D). Since at least one OTU was found
34 389 DA in most comparisons between experimental groups, we decided to further explore the global
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36 390 abundance of *Lactobacillus* spp. by adding the abundances of the OTUs in the whole dataset at T2
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38 391 (OTUs 292057, 24271, 725198, 536754, 588197, 581474, 549756, 553352, 302975, 703741,
39 392 807795). We described that *Lactobacillus* spp. was more abundant in the group C (Figure 3B).
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41 393 ANOVA analyses showed significant differences ($p=0.001$) between the experimental groups. In
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43 394 addition, the *post-hoc* test showed significant differences between P vs. C group (Tukey's HSD, $p=$
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45 395 0.0009) and a significant trend between the O vs. C group (Tukey's HSD, $p=0.055$). No differences
46 396 were described between O and P group (Tukey's HSD, $p>0.05$). When comparing two groups, we
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48 397 have described 162 DA OTUs in the comparison O vs. C, 61 P vs. O and 51 when comparing P vs. C
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50 398 (Tables S12, S13 and S14, respectively). In the Venn diagram, the overlapping DA OTUs among the
51
52 399 different comparisons are showed (Figure 4C). In the DA OTUs belonging to the O vs. C comparison,
53 400 we have described *Prevotella copri*, *Ruminococcus* and *Lactobacillus* to be more abundant in the C
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55 401 than in the O group.

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405 Discussion

406 The present study investigates a common situation occurring in commercial pig herds during the
407 weaning period, when animals are naturally infected by ETEC strains and simultaneously treated with
408 antibiotics. The post-weaning period is associated with multiple stressors, causing a faecal microbiota
409 dysbiosis, which is among the leading causes of post-weaning diarrhoea in piglets. The study was
410 focused on the interactions among the host genetics, the phenotype traits and the faecal microbiota
411 composition in field conditions.

412 In our study, the weight gain was not affected by the genotypes of animals: this findings is in
413 accordance with other reports (Casini et al., 2016; Poulsen et al., 2018). We found an association
414 between a susceptible genotype for *MUC4* gene and the shedding of ETEC F4, confirming the role
415 of this gene in the host susceptibility to the infection. Similarly, we showed an association between
416 the susceptible *FUT1* genotype and the presence of ETEC F18. The association of the *MUC4* and
417 *FUT1* genes with diarrhoea have been largely described in literature (Casini et al., 2016; Jørgensen
418 et al., 2004; Luise et al., 2019; Meijerink et al., 1997; Poulsen et al., 2018; Vogeli et al., 1997; W.
419 Zhang et al., 2017). However, the *MUC4* resistant genotype was characterized by a higher diarrhoea
420 score, which is in contrast with a previous study (Luise et al., 2019). It should be noted that a small
421 percentage of animals with the resistant genotype could show susceptible phenotypes (Joller et al.,
422 2009) and this may explain our findings. Likewise, the susceptible *FUT1* genotype was not associated
423 with the presence of diarrhoea. In this experiment, we decided to use naturally infected piglets,
424 therefore the infectious load was not homogeneous in the animals and this has to be considered as a
425 possible source of bias in our study. In addition, dysbiosis, which is associated with diarrhoea, is
426 commonly reported in this phase and may have confounded our results (Gresse et al., 2017; Lallés et
427 al., 2007). Taking together, our results confirm the role of host genotype on the susceptibility to ETEC
428 infection, but our data suggest that other factors may play a role in determining the presence of
429 diarrhoea in field conditions.

430 The investigation on the faecal microbiota composition showed that in animals without antimicrobial
431 treatments during weaning, the intestinal microbiota is mainly influenced by the *MUC4* genotypes,
432 as reported in previous studies (Luise et al., 2019; Messori et al., 2013). We associated *Actinobacillus*
433 *porcinus* to the *MUC4* resistant group. Interestingly, *Actinobacillus porcinus* has been described in
434 weaned piglets with a high weight gain (Nowland, Plush, Barton, & Kirkwood, 2019), thus
435 confirming its beneficial role in porcine gut health. Contrary to what reported by Messori et al.,
436 (2013), we did not described *Clostridium barlettii* in the resistant *MUC4* piglets, in accordance to the
437 recent study of Luise et al., (2019). Furthermore, the *Oscillospira* genus was also more abundant in
438 the resistant *MUC4* animals: this is not surprising since this genus belong to the Ruminococcaceae

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3 439 family which usually increases after weaning and it is associated with a non-dysbiotic gut (Frese,
4 440 Parker, Calvert, & Mills, 2015; Huang et al., 2019; Mach et al., 2015).

6 441 Moreover, we described a different composition of the faecal microbiota in diarrhoeic animals
8 442 compared to non-diarrhoeic animals, confirming the role of dysbiosis in the development of
9 443 diarrhoea. DA OTUs showed that in the piglets with diarrhoea the *Bacteroides*, *Parabacteroides*,
11 444 *Fusobacterium* genera and the bacteria belonging to the Pasteurellaceae family dominated. Our
13 445 results about *Fusobacterium* is in accordance with what already reported in literature, where a higher
15 446 abundance of this genus in dysbiotic animals than in healthy piglets is described (Huang et al., 2019).
17 447 Finally, we confirmed the role of age at weaning as a major influencer of the intestinal microbiota in
18 448 piglets, as reported in previous papers (Bian et al., 2016; Massacci et al., Submitted; Soler et al.,
20 449 2018). In our study, we described a more homogeneous and richer microbiota composition in the
22 450 oldest piglets compared to the younger ones, which is in accordance with other finding produced by
23 451 the same group (Massacci et al., Submitted).

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27 453 Besides the genotype, the antibiotic treatment seems to have an effect on the presence of diarrhoea at
28 454 T1 and T2. Pigs administered with amoxicillin were at higher risk for diarrhoea when compared to
30 455 non-treated piglets. Likewise, the risk of shedding ETEC F18 was higher in piglets treated with
32 456 amoxicillin by the oral route than in not-treated animals or piglets with parenteral administration
34 457 route. Amoxicillin could not exert an anti-bacterial effect on the ETEC strains, since both the ETEC
35 458 F4 and ETEC F18 were resistant to this antibiotic.

37 459 On the contrary, the amoxicillin treatment affected the faecal microbiota of piglets, at T1 and T2. The
39 460 amoxicillin exposure resulted in significant alterations of the fecal microbiota population evaluated
41 461 immediately after the end of the treatment, showing a lower alpha diversity in the orally administered
42 462 group and thus confirming a more direct effect on the microbiota composition. The shifts were
44 463 different according to the two administration routes. In the group that received amoxicillin orally, we
46 464 described a decreased abundance of the commensal *Lactobacillus*. This finding is in accordance with
47 465 what was reported in a previous study (Connelly, Subramanian, Hasan, Colwell, & Kaleko, 2018),
49 466 where a lower abundance of *Lactobacillus* was associated with the administration of amoxicillin
51 467 through the oral route. This is consistent with the clinical activity of amoxicillin (Burch & Sperling,
53 468 2018), which may affect the abundance of Gram-positive commensals, such as *Lactobacillus* species.
54 469 Moreover, it has been described that the abrupt decrease of *Lactobacillus* spp. at weaning could
56 470 increase the risk of enteritis, since bacteria belonging to this genus play a major role in disease
58 471 prevention (Konstantinov et al., 2006). Our data suggest that the oral administration of amoxicillin
59 472 can deeply modify the faecal microbiota, therefore reducing its barrier effect towards ETEC infection

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3 473 and finally resulting in an increased colonization by the pathogen. The same effect was not recorded
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5 474 after a parenteral administration, since the faecal microbiota of piglets in the group treated by the
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7 475 parenteral route were close to the one of the control group. After the withdrawal period of amoxicillin,
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9 476 the control group showed a higher abundance of OTUs belonging to the *Lactobacillus* genus
10 477 compared to both groups administered with amoxicillin, demonstrating that even the parenteral
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12 478 administration had a long-term effect on the abundance of *Lactobacillus* in piglets gut.

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14 479 However, the differential analysis after the withdrawal period confirmed the parenteral administration
15 480 of amoxicillin had a lower impact on the faecal microbiota composition compared to the oral
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17 481 administration. In fact, taking the control group as a reference, the number of differentially abundant
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19 482 OTUs was higher in the group receiving amoxicillin by the oral route than in the one receiving
20 483 amoxicillin by the parenteral route. In our investigation, we have described that the control and the
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22 484 parenteral administered group had a higher abundance of *Prevotella copri*, *Ruminococcus* and
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24 485 *Lactobacillus* species compared to the oral administered group, in accordance with previous studies
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26 486 (Connelly et al., 2018; Konstantinov et al., 2006). These results highlight that the microbiota
27 487 composition of the intestine of piglets is highly affected by the antimicrobial administrations by the
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29 488 oral route.

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31 489 It has to be noted that in commercial pig herds, amoxicillin is mainly administered through feed or
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33 490 water as a metaphylactic treatment to control Streptococcosis and PWD (Burch & Sperling, 2018;
34 491 Haas & Grenier, 2016; Waack & Nicholson, 2018). Amoxicillin is currently considered an extremely
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36 492 valuable antimicrobial in both human and animal medicine and remains in the critically important
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38 493 category of antibiotics by the World Health Organization (WHO, 2017). In our study, the ETEC F4
39 494 and ETEC F18 were multi-drug resistant which is a common feature of ETEC strains in Europe
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41 495 (Magistrali et al., 2018). When amoxicillin is used in group treatment, there is the risk of creating a
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43 496 selective pressure favourable to amoxicillin-resistant ETEC strains, thus making colonization easier.
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45 497 Since pathogenic bacteria are becoming increasingly resistant to antimicrobials, new practises, aimed
46 498 to limit the administration of antimicrobials, should be encouraged.

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50 500 In our study, we confirm that the *MUC4* and *FUT1* genotypes are associated with the susceptibility
51 501 to ETEC F4 and F18 infection, respectively. The association between diarrhoea and the piglets' *FUT1*
52 502 genotype was not shown, probably due to the presence of multiple variables at the same time. Overall,
53 503 the *MUC4* and *FUT1* were confirmed as genetic markers for the susceptibility to ETEC infections in
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55 504 pigs. Moreover, our data highlight that group amoxicillin treatment may produce adverse outcomes
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57 505 on pig health in course of multi-resistant ETEC infection and this effect is stronger when the antibiotic
58 506 is orally administered than parenterally. Alternative control measures, such as selection of resistant

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507 genotypes or vaccination, should be included in farm management practices to preserve a balanced
508 and stable gut microbiota in weaners.

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For Peer Review

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515 agency for research and innovation networks. Our Actions help connect research initiatives across
516 Europe and enable scientists to grow their ideas by sharing them with their peers. This boosts their
517 research, career and innovation. (www.cost.eu).

519 **Availability of data and materials**

520 The raw sequencing data has been submitted to NCBI's Sequence Read Archive (SRA) repository
521 (BioProject: PRJNA543556; Biosample: SUB5638166, accessions 11771978 to 11772198).

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530 **Conflict of Interest Statement**

531 The authors declared that they had no conflict of interests with respect to their authorship on the
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3 722 **FIGURES**
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6 724 **Figure 1:** Plots include only the samples obtained from T0. Dissimilarities in gut microbiota
8 725 composition represented by the non-metric multidimensional scaling (NMDS) ordination plot, with
9 726 Bray-Curtis dissimilarity index calculated on unscaled OTU abundances. The centroids of each group
11 727 are features as the group name on the graph (“envfit”; Vegan R package). Samples are coloured by
13 728 *MUC4* gene (A): resistant (R, red) and susceptible (S, pink) genotypes; by age (B): 31 days-old (31d,
15 729 light blue) and 38 days-old (38d, blue) and by fecal score (C): category 0 (green), 1 (orange) and 2
16 730 (red).
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19 731

20 732 **Figure 2:** Plots include only the samples obtained from T1. (A) Dissimilarities in gut microbiota
21 733 composition represented by the non-metric multidimensional scaling (NMDS) ordination plot, with
22 734 Bray-Curtis dissimilarity index calculated on unscaled OTU abundances. Samples are coloured by
23 735 experimental groups: control (C, blue), amoxicillin oral-administered (O, orange) and amoxicillin
24 736 parenteral-administered (P, purple). (B) Box plot graph representation of the alpha diversity (Shannon
25 737 index), beta diversity (Whittaker's index) and richness (total number of OTUs present in each sample)
26 738 using the rarefied OTU table for each group and time point. Samples are coloured by experimental
27 739 groups: control (C, blue), amoxicillin oral-administered (O, orange) and amoxicillin parenteral-
28 740 administered (P, purple). (C) Venn diagram representing the overlaps of differentially abundant
29 741 OTUs more abundant belonging to the comparison of two experimental groups (C vs. P, C vs. O, P
30 742 vs. O) (“fitZig”; MetagenomeSeq R package). Group are coloured by comparisons: control vs.
31 743 amoxicillin parenteral-administered (C vs. P, yellow), control vs. amoxicillin oral-administered (C
32 744 vs. O, blue) and amoxicillin oral-administered vs. amoxicillin parenteral-administered (O vs. P,
33 745 green).
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46 747 **Figure 3:** Abundances of *Lactobacillus* spp. at T1 (A) and T2 (B) among the experimental groups.
47 748 Samples are coloured by experimental groups: control (C, blue), amoxicillin oral-administered (O,
48 749 orange) and amoxicillin parenteral-administered (P, purple). Abundances were calculated as the
49 750 addition of normalized for OTUs annotated as *Lactobacillus* spp. in the whole dataset
50 751 (MetagenomeSeq R package). The notched boxplots displays the confidence interval around the
51 752 median. If two boxes' notches do not overlap there is ‘strong evidence’ (95% confidence) their
52 753 medians differ and consequently the difference is described as “statistically significant at the .05
53 754 level”.
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Figure 4: Plots include only the samples obtained from T2. (A) Dissimilarities in gut microbiota composition represented by the non-metric multidimensional scaling (NMDS) ordination plot, with Bray-Curtis dissimilarity index calculated on unscaled OTU abundances. Samples are coloured by experimental groups: control (C, blue), amoxicillin oral-administered (O, orange) and amoxicillin parenteral-administered (P, purple). (B) Box plot graph representation of the alpha diversity (Shannon index), beta diversity (Whittaker's index) and richness (total number of OTUs present in each sample) using the rarefied OTU table for each group and time point. Samples are coloured by experimental groups: control (C, blue), amoxicillin oral-administered (O, orange) and amoxicillin parenteral-administered (P, purple). (C) Venn diagram representing the overlaps of differentially abundant OTUs more abundant belonging to the comparison of two experimental groups (C vs. P, C vs. O, P vs. O) (“fitZig”; MetagenomeSeq R package). Group are coloured by comparisons: control vs. amoxicillin parenteral-administered (C vs. P, yellow), control vs. amoxicillin oral-administered (C vs. O, blue) and amoxicillin oral-administered vs. amoxicillin parenteral-administered (O vs. P, green).

TABLES

Table 1: Distribution of animal status for the presence of diarrhoea according to the *MUC4* and *FUT1* genotypes at T0, T1 and T2. Statistical differences calculated using the Fisher exact test in the different comparisons and the *p*-values are reported.

Table 2: Distribution of animals status for the presence of diarrhoea according to the experimental groups (C=control, P= parenteral administrated, O=oral administrated) at T0, T1 and T2. Statistical differences calculated using the Fisher exact test in the different comparisons and the *p*-values are reported.

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3 783 **SUPPLEMENTARY DATA**
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7 785 **Supplementary figures**
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10 787 **Figure S1:** Description of our cohort. Distribution of animals in the experimental groups (C=control,
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12 788 P= parenteral administrated, O=oral administrated).

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14 789 (A) Bar plot of sex represented in each of the experimental groups. For each group, the bar plot
15 790 represents the number of individuals ascribed to each sex: female (pink), and male (blue); (B) Bar
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17 791 plot of age at weaning represented in each experimental group. For each group, the bar plot represents
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19 792 the number of individuals ascribed to each age: 31 days-old (31d, orange) and 38 days-old (38d,
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21 793 grey); (C) Bar plot of litter of origin represented in each experimental group. For each group, the bar
22 794 plot represents the number of individuals ascribed to each litter number: 14N178 (red), 153 (blue),
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24 795 156 (green), 159159 (purple), 169099 (orange), 16T115 (yellow), 174 (brown) and 177053 (pink);
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26 796 (D) Bar plot of *MUC4* genotypes represented in each experimental group. For group, the bar plot
27 797 represents the number of individuals ascribed to each *MUC4* genotypes: *MUC4*^{CC} (red), *MUC4*^{CG}
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29 798 (grey) and *MUC4*^{GG} (beige); (E) Bar plot of *FUT1* genotypes represented in each experimental group.
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31 799 For group, the bar plot represents the number of individuals ascribed to each *FUT1* genotypes:
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33 800 *FUT1*^{CC} (red), *FUT1*^{CT} (grey) and *FUT1*^{TT} (beige).

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36 802 **Figure S2:** Description of health status of our cohort. Distribution of animals in the experimental
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38 803 groups (C=control, P= parenteral administrated, O=oral administrated).

39 804 (A) Bar plot of ETEC F4 represented in each of the experimental groups. For each group, the bar
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41 805 plot represents the number of individuals ascribed to each ETEC F4 status at T0: negative (green)
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43 806 and positive (red); (B) Bar plot of ETEC F4 represented in each of the experimental groups. For each
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45 807 group, the bar plot represents the number of individuals ascribed to each ETEC F4 status at T1:
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47 808 negative (green) and positive (red); (C) Bar plot of ETEC F4 represented in each of the experimental
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49 809 groups. For each group, the bar plot represents the number of individuals ascribed to each ETEC F4
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51 810 status at T2: negative (green) and positive (red); (D) Bar plot of ETEC F18 represented in each of the
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53 811 experimental groups. For each group, the bar plot represents the number of individuals ascribed to
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55 812 each ETEC F4 status at T0: negative (green) and positive (red); (E) Bar plot of ETEC F18 represented
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57 813 in each of the experimental groups. For each group, the bar plot represents the number of individuals
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59 814 ascribed to each ETEC F4 status at T1: negative (green) and positive (red); (F) Bar plot of ETEC F18
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61 815 represented in each of the experimental groups. For each group, the bar plot represents the number of
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63 816 individuals ascribed to each ETEC F4 status at T2: negative (green) and positive (red); (G) Bar plot

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3 817 of ETEC F4 represented in each of the *MUC4* genotypes identified as resistant (R) and susceptible
4 (S). For each *MUC4* genotype, the bar plot represents the number of individuals ascribed to each
5 818 ETEC F4 status at T0: negative (green) and positive (red); (H) Bar plot of ETEC F4 represented in
6 819 each of the *MUC4* genotypes identified as resistant (R) and susceptible (S). For each *MUC4* genotype,
7 820 the bar plot represents the number of individuals ascribed to each ETEC F4 status at T1: negative
8 821 (green) and positive (red); (I) Bar plot of ETEC F4 represented in each of the *MUC4* genotypes
9 822 identified as resistant (R) and susceptible (S). For each *MUC4* genotype, the bar plot represents the
10 823 number of individuals ascribed to each ETEC F4 status at T2: negative (green) and positive (red); (L)
11 824 Bar plot of ETEC F18 represented in each of the *FUT1* genotypes identified as resistant (R) and
12 825 susceptible (S). For each *FUT1* genotype, the bar plot represents the number of individuals ascribed
13 826 to each ETEC F18 status at T0: negative (green) and positive (red); (M) Bar plot of ETEC F18
14 827 represented in each of the *FUT1* genotypes identified as resistant (R) and susceptible (S). For each
15 828 *FUT1* genotype, the bar plot represents the number of individuals ascribed to each ETEC F18 status
16 829 at T1: negative (green) and positive (red); (N) Bar plot of ETEC F18 represented in each of the *FUT1*
17 830 genotypes identified as resistant (R) and susceptible (S). For each *FUT1* genotype, the bar plot
18 831 represents the number of individuals ascribed to each ETEC F18 status at T2: negative (green) and
19 832 positive (red); (O) Bar plot of diarrhoea status represented in each of the experimental groups. For
20 833 each group, the bar plot represents the number of individuals ascribed to each diarrhoea status at T0:
21 834 score 0 (green), score 1 (orange) and positive (red); (P) Bar plot of diarrhoea status represented in
22 835 each of the experimental groups. For each group, the bar plot represents the number of individuals
23 836 ascribed to each diarrhoea status at T1: score 0 (green), score 1 (orange) and positive (red); (Q) Bar
24 837 plot of diarrhoea status represented in each of the experimental groups. For each group, the bar plot
25 838 represents the number of individuals ascribed to each diarrhoea status at T2: score 0 (green), score 1
26 839 (orange) and positive (red).
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38 842 **Figure S3:** Relative abundance of the Phyla (A) and Genera (B) in each time point for every
39 843 individual belonging to each experimental group (C=control, P= parenteral administrated, O=oral
40 844 administrated). Only Genera present in at least 20% of the individuals are shown.
41 845

42 846 **Figure S4:** Plots include all the samples obtained at T0, T1 and T2. Dissimilarities in gut microbiota
43 847 composition represented by the non-metric multidimensional scaling (NMDS) ordination plot, with
44 848 Bray-Curtis dissimilarity index calculated on unscaled OTU abundances. The centroids of each group
45 849 are features as the group name on the graph (“envfit”; Vegan R package). Samples are coloured by
46 850 time point: T0 (blue), T1 (purple) and T2 (yellow).

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5 852 **Figure S5:** Box plots include only the samples obtained from T0. (A) Box plot graph representation
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7 853 of the alpha diversity (Shannon index), beta diversity (Whittaker's index) and richness (total number
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9 854 of OTUs present in each sample) using the rarefied OTU table for each *MUC4* genotype. Samples
10 855 are coloured by *MUC4* genotypes: *MUC4*^{CC} (red), *MUC4*^{CG} (grey) and *MUC4*^{GG} (beige); (B) Box
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12 856 plot graph representation of the alpha diversity (Shannon index), beta diversity (Whittaker's index)
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14 857 and richness (total number of OTUs present in each sample) using the rarefied OTU table for each
15 858 age at weaning. Samples are coloured by age: 31 days-old (31d, light blue) and 38 days-old (38d,
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17 859 blue); (C) Box plot graph representation of the alpha diversity (Shannon index), beta diversity
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19 860 (Whittaker's index) and richness (total number of OTUs present in each sample) using the rarefied
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21 861 OTU table for each fecal score. Samples are coloured by diarrhoea status: score 0 (green), score 1
22 862 (orange) and positive (red).
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24 863

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26 864 **Figure S6:** Heat maps illustrating the abundances of differentially abundant (DA) OTUs. (A) Heat
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28 865 map of the OTUs differentially expressed at T0 among the susceptible (light pink) and the resistant
29 866 (red) *MUC4* genotypes; (B) Heat map of the OTUs differentially expressed at T0 among the non-
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31 867 diarrhoeic (green) and diarrhoeic (red) animals; (C) Heat map of the OTUs differentially expressed
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33 868 at T1 among the experimental groups. Samples are coloured by experimental groups: control (C,
34 869 blue), amoxicillin oral-administered (O, orange) and amoxicillin parenteral-administered (P, purple);
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36 870 (D) Heat map of the OTUs differentially expressed at T2 among the experimental groups. Samples
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38 871 are coloured by experimental groups: control (C, blue), amoxicillin oral-administered (O, orange) and
39 872 amoxicillin parenteral-administered (P, purple).
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43 874 **Supplementary tables**

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45 875
46 876 **Table S1:** Ingredient and chemical composition of the concentrates of post-weaning pigs.
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50 878 **Table S2:** Table summarizing the phenotypic traits and genotypes of piglets.
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53 880 **Table S3:** Number of pigs belonging to the experimental groups (C=control, P= parenteral
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55 881 administrated, O=oral administrated) along their distribution on the genotypes for *MUC4* and *FUT1*.
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58 883 **Table S4:** The OTU taxonomical assignments and OTU counts in each individual and time point of
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60 884 the whole dataset are showed.

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5 886 **Table S5:** Differentially abundant OTUs when comparing the *MUC4* genotypes and the age
6 887 categories at T0.

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10 889 **Table S6:** Differentially abundant OTUs when comparing the non-diarrhoeic and diarrhoeic animals
11 at T0.

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15 892 **Table S7:** Differentially abundant OTUs when comparing the experimental groups at T1.

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18 **Table S8:** Differentially abundant (DA) OTUs when comparing P (parenteral administrated) vs. C
19 894 (control) group at T1. DA OTUs were used to be plotted in the Venn diagram (Figure 2).
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24 897 **Table S9:** Differentially abundant (DA) OTUs when comparing O (oral administrated) vs. C (control)
25 group at T1. DA OTUs were used to be plotted in the Venn diagram (Figure 2).
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29 900 **Table S10:** Differentially abundant (DA) OTUs when comparing P (parenteral administrated) vs. O
30 (oral administrated) group at T1. DA OTUs were used to be plotted in the Venn diagram (Figure 2).
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34 903 **Table S11:** Differentially abundant OTUs when comparing the experimental groups at T2.

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37 **Table S12:** Differentially abundant (DA) OTUs when comparing P (parenteral administrated) vs. C
38 905 (control) group at T2. DA OTUs were used to be plotted in the Venn diagram (Figure 4).
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43 908 **Table S13:** Differentially abundant (DA) OTUs when comparing O (oral administrated) vs. C
44 (control) group at T2. DA OTUs were used to be plotted in the Venn diagram (Figure 4).
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48 911 **Table S14:** Differentially abundant (DA) OTUs when comparing P (parenteral administrated) vs. O
49 (oral administrated) group at T2. DA OTUs were used to be plotted in the Venn diagram (Figure 4).
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Table 1: Distribution of animal status for the presence of diarrhoea according to the *MUC4* and *FUT1* genotypes at T0, T1 and T2. Statistical differences calculated using the Fisher exact test in the different comparisons and the *p*-values are reported.

Time point	Gene	Susceptibility (S) Resistance (R)	Individual diarrhoea status		Fisher test (p-value)
			Negative	Positive	
T0	<i>MUC4</i>	S	44	8	0.01
		R	10	9	
	<i>FUT1</i>	S	45	13	<i>0.49</i>
		R	9	4	
T1	<i>MUC4</i>	S	34	18	<i>1</i>
		R	12	7	
	<i>FUT1</i>	S	38	20	<i>0.94</i>
		R	8	5	
T2	<i>MUC4</i>	S	45	7	<i>1</i>
		R	16	3	
	<i>FUT1</i>	S	49	9	<i>0.76</i>
		R	12	1	

Table 2: Distribution of animals status for the presence of diarrhoea according to the experimental groups (C=control, P= parenteral administrated, O=oral administrated) at T0, T1 and T2. Statistical differences calculated using the Fisher exact test in the different comparisons and the p-values are reported.

Time point	Group	Presence of diarrhoea		Fisher test (p-value)
		Negative	Positive	
T0	P	17	6	0.61
	O	17	7	
	C	20	4	
T1	P	11	10	0.009
	O	14	10	
	C	21	3	
T2	P	19	4	0.02
	O	18	6	
	C	24	0	

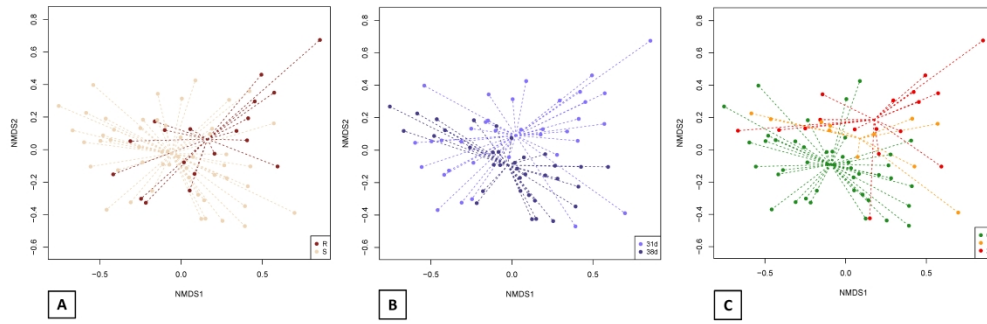


Figure 1

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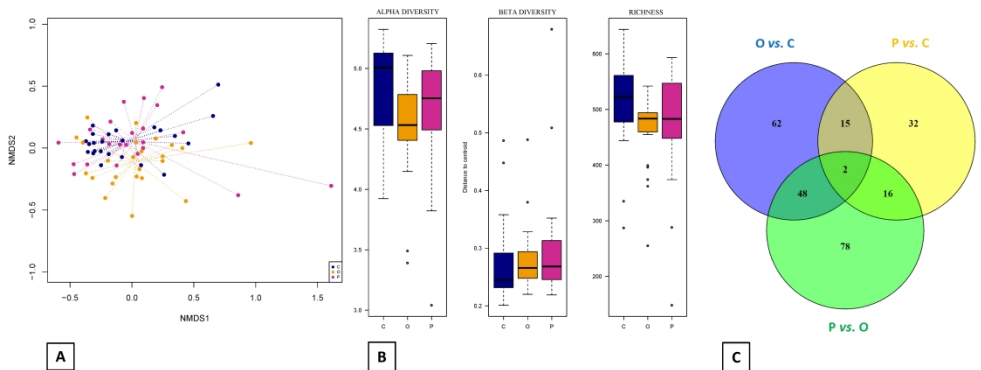


Figure 2

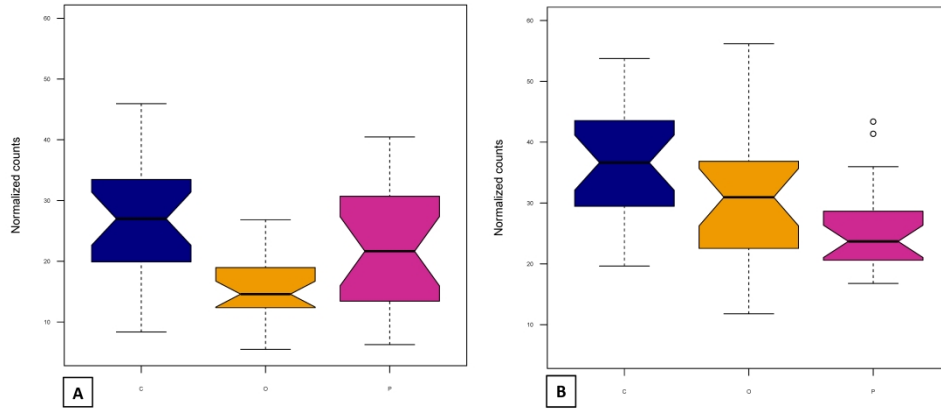


Figure 3

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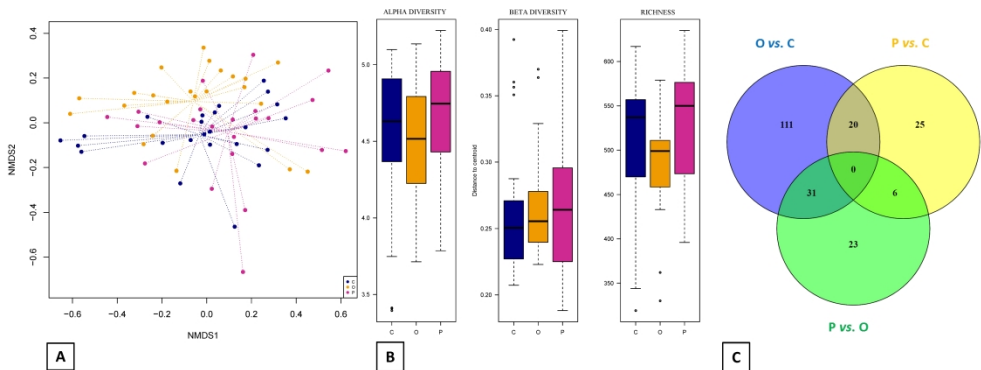


Figure 4

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Table S1: Ingredient and chemical composition of the concentrates of post-weaning pigs.

Ingredients	%
Barley flour	22.00
Biscuit meal	15.00
Whey powder	10.00
Wheat middlings	9.00
Soy protein concentrate	8.50
Maize flour	6.00
Wheat flour	6.00
Corn flakes	5.00
Wheat bran	5.00
Hull-less barley flakes	4.00
Sunflower oil	2.70
Wheat gluten	1.50
Lignocellulose	1.00
Vitamin and mineral pre-mix	2.50
Dicalcium phosphate	0.60
Monocalcium phosphate	0.50
Calcium carbonate	0.50
Sodium Chloride	0.20
Chemical composition %	
Crude protein	16.3
Crude fat	6.3
Cellulose	3.8
Ash	5.4
Calcium	0.5
Phosphorus	0.6
Sodium	0.2
Lys	1.3
Met	0.4

Table S2: Table summarizing the phenotypic traits and genotypes of piglets.

ID PIG	GROUP	FECAL SCORE T0	FECAL SCORE T1	FECAL SCORE T2	WEIGHT T0	WEIGHT T1
504	A	1	2	1	4.08	4.66
526	A	0	1	0	5.4	6.72
551	A	0	2	0	5.6	6.52
555	A	0	2	1	6.4	6.26
558	A	1	1	1	7.86	7.64
563	A	1	1	0	7	6.68
603	A	0	2	1	7.4	8.36
607	A	2	2	2	8.3	9.08
608	A	0	0	1	7.4	9.08
616	A	2	0	1	8.4	9.3
659	A	2	1	2	6.8	7.08
662	A	1	1	2	6.92	6.52
503	A	0	2	1	5.94	6.14
506	A	2	1	0	5.2	5.14
528	A	0	2	0	5.8	6.08
550	A	0	0	1	6.3	7.54
561	A	2	2	1	7.4	6.9
605	A	0	1	0	9.5	10.16
610	A	0	2	2	7.58	7.38
614	A	2	2	0	6.98	7.52
639	A	0	2	0	7.76	7.58
642	A	0	1	0	6.3	6.36
658	A	0	2	1	5.2	6.32
512	B	2	1	1	6.44	7.22
513	B	0	0	0	5.6	6.36
553	B	0	1	2	5.98	7.34
556	B	2	0	1	7.4	7.88
559	B	2	2	1	5	5.05
560	B	2	2	0	8.56	8.28
604	B	0	1	0	8.9	10.28
609	B	0	2	0	9.2	10.38
618	B	0	1	1	7.4	7.72
640	B	0	1	0	7.26	8.82
657	B	2	1	2	7.2	8.38
661	B	0	1	2	4.6	5.32
501	B	2	2	0	6.3	7.04
508	B	0	1	2	4.92	5.24
530	B	2	1	1	5.8	6.02
544	B	0	0	2	5.52	7.4
545	B	0	2	1	7.58	7.24
600	B	0	2	1	8.34	8.88
619	B	0	1	1	7.3	8.02
622	B	1	2	0	6.3	7.16
636	B	0	2	2	10.04	11.02
644	B	1	2	1	8.02	8.42
645	B	0	1	0	5.8	5.9
655	B	1	2	0	5.46	5.66
507	C	1	1	1	6.3	7.04
510	C	2	0	0	6.06	6.58

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2	527	C	1	0	0	7.9	7.96
3	543	C	0	1	1	6.7	7.06
4	562	C	2	2	1	5.72	5.04
5	564	C	2	0	0	8.64	8.12
6	565	C	2	0	1	7.34	7.1
7	599	C	0	1	0	6.72	7.14
8	602	C	0	0	0	7.84	8.56
9							
10	623	C	0	2	0	6.36	6.92
11	638	C	0	0	0	6.2	6.84
12	663	C	0	0	0	5.2	5.12
13	502	C	0	1	0	5.4	5.76
14	509	C	0	1	0	5.62	6.26
15	525	C	0	0	0	5.76	5.6
16	547	C	0	2	1	5.05	5.24
17	548	C	0	1	0	7.56	8.06
18	549	C	0	0	1	3.62	7.26
19	557	C	1	1	1	7.6	7.6
20	612	C	0	1	0	7.96	8.44
21	617	C	0	0	0	7.08	7.86
22	641	C	1	1	1	7.5	7.66
23	643	C	0	1	0	5.5	5.86
24	664	C	0	0	0	5.8	6.06
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WEIGHT T2	BIRTH PIGLETS	LITTER	ETEC F4 T0	ETEC F18 T0	ETEC F4 T1	ETEC F18 T1	ETEC F4 T2
5.42	4/29/2018	14N178	POS	NEG	NEG	POS	NEG
7.26	4/29/2018	16T115	POS	POS	NEG	NEG	NEG
7.44	4/29/2018	169099	NEG	POS	NEG	POS	NEG
7.04	4/29/2018	159159	NEG	NEG	NEG	POS	NEG
8.64	4/29/2018	159159	NEG	POS	NEG	POS	NEG
7.38	4/29/2018	159159	NEG	POS	NEG	POS	NEG
9.42	4/22/2018	177063	NEG	POS	NEG	NEG	NEG
10.42	4/22/2018	177063	POS	NEG	NEG	POS	NEG
10.22	4/22/2018	177063	POS	NEG	NEG	POS	POS
10.92	4/22/2018	174	POS	NEG	NEG	POS	NEG
8.18	4/22/2018	153	NEG	POS	NEG	POS	NEG
6.44	4/22/2018	153	POS	NEG	NEG	POS	NEG
6.68	4/29/2018	14N178	POS	NEG	NEG	POS	NEG
5.44	4/29/2018	14N178	POS	POS	NEG	POS	NEG
5.2	4/29/2018	16T115	POS	NEG	NEG	POS	NEG
9.1	4/29/2018	169099	POS	NEG	NEG	NEG	NEG
7.06	4/29/2018	159159	POS	NEG	NEG	POS	NEG
10.86	4/22/2018	177063	POS	NEG	NEG	NEG	NEG
7.38	4/22/2018	174	NEG	POS	NEG	POS	NEG
8.88	4/22/2018	174	NEG	NEG	NEG	NEG	NEG
8.7	4/22/2018	156	POS	NEG	NEG	POS	NEG
6.18	4/22/2018	156	POS	NEG	NEG	POS	NEG
6.98	4/22/2018	153	POS	NEG	NEG	NEG	NEG
7.6	4/29/2018	14N178	POS	NEG	NEG	POS	POS
7.28	4/29/2018	14N178	NEG	NEG	NEG	POS	NEG
7.32	4/29/2018	169099	NEG	POS	NEG	POS	NEG
8.44	4/29/2018	159159	NEG	NEG	NEG	POS	NEG
5.8	4/29/2018	159159	POS	NEG	NEG	POS	NEG
8.82	4/29/2018	159159	NEG	NEG	NEG	POS	NEG
11.56	4/22/2018	177063	POS	POS	NEG	POS	NEG
10.94	4/22/2018	177063	POS	NEG	NEG	POS	NEG
9.63	4/22/2018	174	POS	NEG	NEG	POS	NEG
9.7	4/22/2018	156	POS	NEG	NEG	POS	NEG
9.46	4/22/2018	153	POS	NEG	NEG	POS	NEG
5.64	4/22/2018	153	NEG	POS	NEG	POS	NEG
7.52	4/29/2018	14N178	POS	NEG	NEG	POS	NEG
5.46	4/29/2018	14N178	POS	NEG	NEG	POS	POS
6.92	4/29/2018	16T115	POS	NEG	NEG	POS	NEG
8.1	4/29/2018	169099	POS	NEG	NEG	POS	NEG
7.14	4/29/2018	169099	POS	NEG	NEG	POS	NEG
9.82	4/22/2018	177063	POS	NEG	NEG	POS	NEG
8.56	4/22/2018	174	POS	NEG	NEG	POS	NEG
7.86	4/22/2018	174	POS	NEG	NEG	POS	NEG
11.2	4/22/2018	156	POS	NEG	NEG	POS	NEG
9.68	4/22/2018	156	POS	POS	NEG	POS	NEG
6.48	4/22/2018	156	POS	NEG	NEG	POS	NEG
5.4	4/22/2018	153	POS	NEG	NEG	POS	NEG
7.78	4/29/2018	14N178	NEG	POS	NEG	POS	NEG
6.96	4/29/2018	14N178	POS	NEG	NEG	POS	NEG

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2	8.6	4/29/2018	16T115	POS	NEG	NEG	NEG	NEG
3	8.42	4/29/2018	169099	POS	POS	NEG	POS	NEG
4	6.02	4/29/2018	159159	NEG	POS	NEG	POS	NEG
5	9.26	4/29/2018	159159	NEG	POS	NEG	POS	NEG
6	7.92	4/29/2018	159159	POS	POS	NEG	POS	NEG
7	8.2	4/22/2018	177063	NEG	POS	NEG	POS	NEG
8	9.96	4/22/2018	177063	NEG	NEG	NEG	NEG	NEG
9	8.16	4/22/2018	174	NEG	POS	NEG	POS	NEG
10	7.68	4/22/2018	156	POS	NEG	NEG	POS	NEG
11	5.58	4/22/2018	153	POS	NEG	NEG	POS	NEG
12	6.54	4/29/2018	14N178	POS	NEG	NEG	POS	NEG
13	7.06	4/29/2018	14N178	POS	NEG	NEG	POS	NEG
14	6.2	4/29/2018	16T115	POS	NEG	NEG	POS	NEG
15	5.78	4/29/2018	169099	POS	POS	NEG	POS	NEG
16	8.9	4/29/2018	169099	NEG	NEG	NEG	POS	NEG
17	8.18	4/29/2018	169099	POS	NEG	NEG	POS	NEG
18	8.2	4/29/2018	159159	POS	NEG	NEG	POS	NEG
19	9.82	4/22/2018	174	NEG	NEG	NEG	NEG	NEG
20	8.94	4/22/2018	174	POS	NEG	NEG	NEG	NEG
21	8.76	4/22/2018	156	POS	NEG	NEG	POS	NEG
22	6.84	4/22/2018	156	POS	NEG	NEG	POS	NEG
23	6.74	4/22/2018	153	POS	NEG	NEG	POS	NEG
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ETEC F18 T2	SEX PIGLET	MUC4 g	FUT1 g	FUT1	MUC4	AGE PIGLETS AT WEANING (days)
NEG	M	CG	CC	S	S	31
NEG	F	CC	CT	S	R	31
NEG	F	CC	CT	S	R	31
NEG	M	CC	CC	S	R	31
NEG	F	CC	CC	S	R	31
NEG	F	CG	CC	S	S	31
NEG	M	CG	CT	S	S	38
NEG	F	CC	TT	R	R	38
NEG	M	CC	TT	R	R	38
NEG	M	CG	TT	R	S	38
NEG	F	CC	CT	S	R	38
NEG	M	CG	CT	S	S	38
NEG	F	CG	CC	S	S	31
NEG	M	GG	CC	S	S	31
NEG	F	CG	CT	S	S	31
NEG	F	CG	CT	S	S	31
NEG	M	CG	CT	S	S	31
NEG	M	GG	CT	S	S	38
NEG	F	CG	CT	S	S	38
NEG	M	GG	TT	R	S	38
NEG	M	GG	CT	S	S	38
NEG	F	GG	CT	S	S	38
NEG	M	GG	TT	R	S	38
POS	F	CC	CT	S	R	31
NEG	F	CC	CC	S	R	31
POS	M	CG	CT	S	S	31
POS	F	CC	CC	S	R	31
POS	M	CC	CC	S	R	31
POS	F	CC	CC	S	R	31
NEG	F	CG	CT	S	S	38
NEG	M	CC	CT	S	R	38
NEG	M	CG	CT	S	S	38
NEG	F	CG	CT	S	S	38
POS	M	CG	CT	S	S	38
POS	F	CC	CT	S	R	38
NEG	F	CG	CC	S	S	31
NEG	M	GG	CC	S	S	31
NEG	M	CG	TT	R	S	31
NEG	F	CG	CT	S	S	31
NEG	M	CG	CT	S	S	31
NEG	F	CG	CT	S	S	38
NEG	F	CG	TT	R	S	38
NEG	M	CG	TT	R	S	38
NEG	M	GG	CC	S	S	38
NEG	M	GG	CC	S	S	38
NEG	M	GG	CC	S	S	38
NEG	F	GG	TT	R	S	38
NEG	M	CC	CC	S	R	31
NEG	F	CC	CC	S	R	31

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2	NEG	F	CG	TT	R	S	31
3	NEG	M	CG	CT	S	S	31
4	NEG	F	CC	CC	S	R	31
5	NEG	F	CC	CC	S	R	31
6	NEG	M	CG	CT	S	S	31
7	NEG	F	CC	CT	S	R	38
8	NEG	F	CG	TT	R	S	38
9	NEG	F	CG	CT	S	S	38
10							
11	NEG	M	CG	CC	S	S	38
12	NEG	M	CG	CC	S	S	38
13	NEG	M	CG	CC	S	S	31
14	POS	M	CG	CC	S	S	31
15	NEG	F	GG	TT	R	S	31
16	NEG	F	CG	CT	S	S	31
17	NEG	M	CG	CT	S	S	31
18	NEG	F	CG	CT	S	S	31
19	NEG	F	GG	CT	S	S	31
20	NEG	M	GG	CT	S	S	38
21	NEG	M	CG	TT	R	S	38
22	NEG	M	GG	CT	S	S	38
23	NEG	F	GG	CC	S	S	38
24	NEG	M	CG	CC	S	S	38
25	NEG	F	GG	CC	S	S	38
26	NEG	M	CG	CC	S	S	38
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Table S3: Number of pigs belonging to the experimental groups (C=control, P= parenteral administrated, O=oral administrated) along their distribution on the genotypes for *MUC4* and *FUT1*.

Group	<i>MUC4</i>^{CC}	<i>MUC4</i>^{CT}	<i>MUC4</i>^{GG}	<i>FUT1</i>^{CC}	<i>FUT1</i>^{CT}	<i>FUT1</i>^{TT}	Total
C	5	14	5	10	10	4	24
P	7	10	6	6	12	5	23
O	7	12	5	9	11	4	24

For Peer Review

Table S4: The OTU taxonomical assignments and OTU counts in each individual and time point of the wh

OTU	T0-525	T0-528	T0-551	T0-510	T0-547	T0-555	T0-557	T0-619
	510286	4	0	4	0	13	4	0
	581014	29	23	8	0	135	5	1
	369182	0	3	0	0	8	0	0
	347226	4	2	7	0	1	0	0
	347244	11	5	22	0	16	0	1
New.ReferenceOTU3115		0	0	0	0	0	0	0
	289074	0	0	0	0	0	1	1
New.ReferenceOTU2431		2	0	0	0	1	11	0
New.ReferenceOTU6085		0	0	0	0	0	0	0
	523542	2	3	3	0	1	6	3
	253380	0	0	6	0	2	0	2
	1105552	4	10	8	2	4	4	0
	909065	5	4	4	0	3	7	1
	808794	2	1	0	2	1	1	0
	292387	0	0	0	0	0	0	0
	34020	31	0	58	0	45	18	2
	354854	1	0	0	0	0	0	0
New.ReferenceOTU3592		0	1	0	0	0	2	12
	327017	0	0	0	0	0	2	9
	579431	0	0	0	0	0	30	83
	1110135	0	0	2	1	0	5	0
	47477	0	1	4	0	0	4	0
	577206	11	22	218	9	6	3	1
New.ReferenceOTU7476		19	47	324	3	27	11	6
	753891	8	1	0	1	2	7	2
	367813	0	0	0	0	0	0	0
New.ReferenceOTU890		0	0	1	0	0	3	0
	846141	4	8	7	26	6	4	18
New.ReferenceOTU9845		0	0	0	0	0	12	0
	358104	0	0	0	0	0	0	0
	296872	0	0	0	0	0	0	0
	335488	0	0	0	0	0	0	6
New.ReferenceOTU5504		0	0	0	0	0	11	0
	351063	3	7	21	4	43	1	1
	335846	0	0	0	0	0	0	1
	355175	0	0	0	0	0	0	0
	649107	0	1	0	1	1	2	1
	1106614	0	0	0	1	1	0	0
	532235	2	3	5	0	0	0	0
	331117	1	0	0	0	0	0	0
	335267	0	0	0	0	0	3	0
	354957	4	0	0	0	5	3	0
	328825	6	0	0	0	0	0	3
	337580	0	11	80	83	3	59	4
	441468	0	0	4	2	0	7	0
	578649	0	0	1	2	16	3	1
New.ReferenceOTU3851		0	0	0	0	17	0	2
New.ReferenceOTU1055		0	0	3	40	1	14	12
	350447	0	1	0	0	13	515	22

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2	New.ReferenceOTU10211	0	0	4	1	0	0	0	1
3	New.ReferenceOTU3003	0	0	0	0	0	1	0	0
4	307722	0	0	0	0	2	0	0	0
5	341204	0	0	0	0	0	0	0	0
6	346606	0	0	0	0	0	0	0	0
7	344804	37	96	0	27	16	0	2	9
8	348227	1	3	0	3	0	0	0	0
9	366986	0	8	13	0	2	0	0	1
10	470382	2	7	4	0	0	0	0	6
11	148304	0	0	0	0	0	0	0	0
12	71089	0	0	0	0	3	0	0	0
13	300123	1	0	11	0	2	1	1	0
14									
15	New.ReferenceOTU8750	0	0	0	0	3	0	1	0
16	727140	0	1	4	0	1	0	0	0
17	366623	0	0	0	0	1	0	0	5
18	509416	0	21	34	4	0	0	0	0
19	529180	0	0	1	0	1	0	0	0
20	425675	0	0	6	0	0	0	0	0
21	1107057	0	0	0	0	0	0	0	0
22	547913	0	0	0	0	0	0	0	0
23									
24									
25	New.ReferenceOTU2124	0	5	1	0	11	13	3	0
26	269413	1	2	1	0	7	2	0	0
27	565357	4	17	46	6	12	1	1	1
28	527413	0	3	0	0	4	0	0	0
29	561193	1	8	1	0	33	2	3	4
30	976470	0	1	0	0	2	0	0	0
31	297677	0	0	0	0	0	0	0	0
32	25842	1	10	0	3	7	1	1	5
33	336501	0	0	0	0	0	0	0	0
34	845291	0	0	1	0	1	0	0	0
35	350666	0	0	1	0	9	1	1	0
36	185961	0	0	1	2	3	6	1	2
37	1029949	0	0	0	0	0	8	1	0
38	91359	0	7	0	5	5	0	2	1
39	581003	3	8	18	0	4	0	2	0
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41									
42	New.ReferenceOTU1603	3	3	4	0	0	0	0	0
43	309433	1	2	5	2	0	0	1	1
44	370098	3	0	1	1	2	0	4	3
45	314095	0	0	1	0	3	0	1	0
46	349257	0	7	0	1	8	0	1	0
47									
48	New.ReferenceOTU3994	3	1	0	0	1	7	0	7
49	New.ReferenceOTU5018	0	0	0	7	0	3	0	0
50	848615	0	0	0	10	0	3	0	92
51	584083	0	0	0	51	0	98	33	13
52	587041	0	2	0	0	0	4	2	0
53	358594	0	1	0	1	1	1	0	3
54	518040	0	0	6	0	0	0	0	1
55	4404459	0	0	1	0	3	0	0	1
56	295861	4	1	7	0	5	2	1	2
57	539601	0	7	0	0	3	0	1	0
58									
59	New.ReferenceOTU8783	0	0	0	0	0	0	0	0
60	New.ReferenceOTU4908	0	0	0	0	0	0	0	0

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2		1121634	0	0	0	0	0	0	0	0
3	New.ReferenceOTU5008		0	0	1	0	0	0	0	0
4		1654477	0	0	0	0	0	53	0	0
5		298592	0	0	0	0	0	3	0	0
6		3394073	0	0	0	0	0	0	0	0
7	New.ReferenceOTU2984		0	0	0	0	0	0	0	0
8	New.ReferenceOTU5511		0	0	1	0	0	0	0	0
9		518552	0	0	0	0	0	0	0	0
10			0	0	0	0	0	0	0	0
11	New.ReferenceOTU3384		0	0	0	0	0	0	0	0
12	New.ReferenceOTU8829		0	0	0	0	104	0	0	0
13	New.ReferenceOTU1712		0	0	0	0	3	34	6	0
14		23625	1	2	7	255	270	20	38	21
15		1871	0	5	0	0	0	1	2	24
16		25453	0	0	0	0	0	0	0	0
17			0	0	0	0	0	0	0	0
18	New.ReferenceOTU9945		0	0	0	3	0	5	1	0
19		295094	1	2	2	9	3	0	2	1
20		791348	0	0	0	0	0	0	0	0
21		30569	0	1	5	10	0	2	2	0
22		4453773	16	129	55	123	208	36	78	70
23			0	2	0	3	6	0	0	1
24	New.ReferenceOTU5739		0	2	0	3	6	0	0	1
25	New.ReferenceOTU214		0	0	0	0	0	0	0	0
26	New.ReferenceOTU6457		0	0	1	7	0	1	2	7
27		28056	0	0	0	0	0	13	3	1
28	New.ReferenceOTU10898		0	0	0	0	1	18	2	8
29	New.ReferenceOTU7331		0	0	0	0	0	172	0	67
30		589277	0	0	0	0	1	0	1	0
31			0	1	0	4	0	9	7	12
32	New.ReferenceOTU8027		0	1	0	4	0	9	7	12
33		233549	0	1	0	0	0	0	0	0
34	New.ReferenceOTU10502		0	0	0	0	0	0	6	3
35	New.ReferenceOTU9646		0	0	0	0	0	1	1	0
36	New.ReferenceOTU2		0	0	0	1	0	19	3	4
37		45921	7	2	8	87	5	61	96	43
38	New.ReferenceOTU5165		0	0	0	7	1	9	0	1
39		589071	0	2	0	0	0	0	0	0
40			0	2	0	0	0	0	0	0
41	New.ReferenceOTU4614		0	0	0	36	3	14	6	8
42	New.ReferenceOTU7043		1	0	5	44	2	26	8	4
43		315271	1	152	1	7	1	6	5	0
44		4435235	5	4	2	14	3	3	2	0
45		22466	0	0	2	2	2	0	2	5
46			1	0	0	3	4	0	1	1
47	New.ReferenceOTU10357		1	0	0	3	4	0	1	1
48	New.CleanUp.ReferenceOTU14657		0	0	0	0	2	0	0	1
49	New.ReferenceOTU5967		0	0	0	2	0	21	0	0
50		929493	0	0	0	0	0	0	0	0
51		288265	32	3	19	0	0	0	2	0
52	New.CleanUp.ReferenceOTU50740		8	0	27	16	1	64	4	11
53	New.ReferenceOTU10048		1	4	0	22	2	0	4	1
54		519836	6	31	8	189	24	11	43	20
55		525264	0	1	1	8	1	1	2	2
56		222930	0	0	0	25	2	11	5	26
57			0	0	0	25	2	11	5	26
58	New.CleanUp.ReferenceOTU145223		3	7	33	130	27	15	28	78
59	New.ReferenceOTU10824		0	0	0	0	0	0	0	4
60	New.ReferenceOTU7056		1	0	0	7	2	0	0	2

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2		294053	0	0	0	4	0	4	2	2
3	New.ReferenceOTU10078		0	0	0	13	10	8	11	15
4	New.CleanUp.ReferenceOTU101431		11	13	5	37	26	0	8	52
5	New.ReferenceOTU10129		4	2	19	103	19	2	15	75
6	New.ReferenceOTU10860		0	0	1	6	1	2	0	7
7		676082	0	0	0	35	11	173	5	69
8	New.ReferenceOTU3800		0	0	0	1	1	2	0	10
9	New.ReferenceOTU10704		15	4	16	67	22	7	11	10
10	New.CleanUp.ReferenceOTU121760		59	8	54	192	63	26	67	37
11	New.CleanUp.ReferenceOTU131005		18	4	6	32	24	0	10	4
12	New.ReferenceOTU1050		0	0	0	4	2	0	1	0
13	New.ReferenceOTU2877		0	0	1	1	0	0	4	1
14	New.ReferenceOTU1729		2	0	1	7	2	1	0	1
15	New.CleanUp.ReferenceOTU86700		0	0	3	9	2	0	2	2
16	New.ReferenceOTU215		33	6	13	5	11	0	8	9
17		1061134	4	6	5	3	4	0	12	6
18		301251	156	125	243	72	128	7	141	89
19	New.ReferenceOTU10077		8	6	3	10	11	1	5	15
20	New.CleanUp.ReferenceOTU127194		70	54	22	9	48	0	24	32
21	New.ReferenceOTU1125		16	9	15	12	23	0	8	8
22	New.CleanUp.ReferenceOTU58992		0	0	0	0	0	0	1	0
23		993934	1	1	0	89	0	0	9	3
24		1013234	12	0	6	47	14	2	16	116
25	New.ReferenceOTU1012		27	5	20	87	34	1	25	90
26		938672	0	0	0	2	0	3	0	4
27	New.ReferenceOTU10052		2	0	0	15	9	60	4	4
28	New.CleanUp.ReferenceOTU80500		0	0	0	22	2	32	19	0
29	New.CleanUp.ReferenceOTU69735		0	0	0	1	0	5	2	1
30		43544	0	0	4	109	28	164	60	40
31	New.CleanUp.ReferenceOTU115562		1	0	0	35	0	0	2	21
32	New.CleanUp.ReferenceOTU17624		2	9	5	134	25	1	3	78
33	New.CleanUp.ReferenceOTU126048		1	1	0	0	16	31	1	15
34		47554	0	0	0	15	20	52	2	8
35	New.ReferenceOTU6520		0	13	6	2	23	6	1	19
36	New.CleanUp.ReferenceOTU8158		0	0	0	0	21	10	12	9
37	New.ReferenceOTU10736		10	7	3	6	2	0	2	1
38	New.ReferenceOTU7356		0	6	1	0	0	0	0	1
39		183598	7	4	3	23	6	1	12	11
40		925131	47	29	67	269	20	39	116	69
41	New.CleanUp.ReferenceOTU71794		6	12	2	2	4	0	1	3
42		248447	11	3	16	0	9	10	22	11
43	New.ReferenceOTU1755		0	3	0	0	0	0	1	0
44	New.CleanUp.ReferenceOTU135285		0	17	0	0	0	0	4	0
45	New.ReferenceOTU11254		0	3	0	0	0	0	0	0
46		324283	0	68	2	3	5	0	43	0
47	New.ReferenceOTU8056		0	12	0	0	0	0	2	0
48	New.CleanUp.ReferenceOTU28513		6	10	3	24	12	1	22	10
49	New.CleanUp.ReferenceOTU84026		0	0	0	2	1	0	4	2
50	New.CleanUp.ReferenceOTU127916		1	2	0	7	0	1	11	10
51	New.CleanUp.ReferenceOTU81746		1	3	7	11	3	0	0	0
52	New.ReferenceOTU10452		38	47	11	33	29	3	65	32
53	New.ReferenceOTU2171		2	4	1	28	2	0	9	4

1										
2	New.ReferenceOTU2955	0	3	1	6	3	0	10	0	
3	New.ReferenceOTU316	2	0	0	5	4	0	0	4	
4		346868	93	108	103	394	120	60	388	138
5		319810	0	0	0	4	3	0	7	4
6		303112	1	0	1	3	2	0	11	5
7	New.ReferenceOTU10100	1	0	0	1	0	0	3	4	
8	New.ReferenceOTU10020	5	9	5	17	18	4	34	22	
9		296374	1	1	3	21	11	3	5	18
10										
11	New.CleanUp.ReferenceOTU76296	36	18	9	5	19	0	15	17	
12	New.ReferenceOTU1467	0	1	1	0	9	1	1	1	
13	New.ReferenceOTU10062	0	7	1	2	1	1	11	14	
14	New.ReferenceOTU862	0	1	0	5	0	0	12	4	
15	New.ReferenceOTU6723	0	1	0	1	6	0	4	9	
16	New.ReferenceOTU7793	0	1	0	1	15	0	6	12	
17	New.CleanUp.ReferenceOTU86994	53	8	9	24	20	0	2	16	
18	New.ReferenceOTU410	11	3	3	17	4	0	6	13	
19	New.ReferenceOTU1693	0	9	3	1	4	0	1	12	
20	New.ReferenceOTU7765	0	9	2	12	0	0	9	2	
21	New.ReferenceOTU6967	2	0	0	6	6	0	1	2	
22	New.ReferenceOTU10003	0	12	2	3	6	1	3	15	
23	New.CleanUp.ReferenceOTU2626	16	78	25	17	8	0	9	7	
24		527941	1	5	1	5	6	0	8	16
25		524891	0	4	1	0	2	2	3	3
26		526701	0	5	0	1	8	0	1	1
27		513003	1	10	1	2	2	1	0	2
28										
29	New.ReferenceOTU10023	7	2	16	1	3	0	17	25	
30	New.ReferenceOTU10019	4	4	16	0	4	0	11	9	
31		518820	1	0	1	0	0	8	2	
32		522364	2	1	1	0	0	3	1	
33	New.ReferenceOTU10045	7	39	6	23	14	2	21	27	
34		198786	1	13	4	2	1	2	1	
35		321743	0	4	3	2	4	2	3	2
36										
37	New.ReferenceOTU3520	0	0	2	0	0	8	0	4	
38	New.ReferenceOTU1638	0	0	0	2	1	0	4	20	
39	New.CleanUp.ReferenceOTU9889	49	8	2	0	3	0	0	7	
40	New.ReferenceOTU10683	33	80	1	5	45	1	5	7	
41	New.ReferenceOTU807	15	24	7	2	17	3	13	10	
42	New.ReferenceOTU9381	35	3	4	4	2	0	2	2	
43	New.ReferenceOTU5207	28	53	16	27	55	0	31	19	
44		307154	0	12	2	1	4	1	6	1
45		589329	352	6352	1115	1078	3475	228	2521	1566
46	New.CleanUp.ReferenceOTU139368	3	5	0	10	6	2	4	7	
47	New.CleanUp.ReferenceOTU27900	79	0	0	0	0	0	0	0	
48	New.CleanUp.ReferenceOTU1186	55	12	26	8	7	0	1	13	
49	New.ReferenceOTU10889	27	3	15	1	7	0	2	7	
50	New.ReferenceOTU10021	7	2	4	5	5	0	1	12	
51		342638	45	3	20	4	7	0	3	3
52		350627	16	1	4	1	7	0	0	1
53		545061	17	10	6	5	7	1	4	27
54										
55	New.CleanUp.ReferenceOTU59345	65	0	1	0	1	0	0	0	
56	New.ReferenceOTU10083	134	15	181	8	62	1	13	10	
57		558839	0	0	0	1	0	0	0	4

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2	New.ReferenceOTU11127	4	0	2	1	1	0	1	7	
3	New.ReferenceOTU1195	12	0	3	1	5	0	0	0	
4	New.ReferenceOTU1826	7	0	3	1	1	0	1	1	
5		297414	6	2	3	0	2	1	0	
6		293717	11	0	2	0	2	0	5	
7		588929	1163	550	333	343	597	24	249	508
8		345899	14	0	9	1	4	0	2	2
9										
10	New.CleanUp.ReferenceOTU49983	593	36	169	37	63	0	17	26	
11		568118	3175	552	1546	384	831	29	309	557
12	New.ReferenceOTU2204	0	0	0	0	0	0	0	0	0
13	New.CleanUp.ReferenceOTU66448	9	1	4	0	9	0	0	0	1
14	New.ReferenceOTU10079	28	5	18	8	12	0	1	1	1
15		347875	0	22	1	20	17	0	17	9
16	New.CleanUp.ReferenceOTU109752	4	8	0	0	10	0	0	0	3
17		189083	0	8	1	1	0	0	7	2
18		295554	21	96	21	34	78	3	40	28
19		346938	0	2	1	3	4	0	2	0
20		336372	2	5	4	3	6	2	4	2
21		307571	24	35	18	13	20	2	18	12
22		4410166	11	18	7	7	9	1	14	8
23										
24	New.CleanUp.ReferenceOTU5822	5	75	9	62	32	1	56	92	
25	New.CleanUp.ReferenceOTU13017	28	28	7	34	25	2	45	29	
26	New.ReferenceOTU11270	0	78	0	5	15	0	11	10	
27	New.ReferenceOTU1511	0	19	0	0	3	0	0	8	
28		328936	6	77	10	12	5	0	0	16
29										
30	New.ReferenceOTU10136	5	13	7	0	1	0	0	0	12
31		333028	0	46	0	23	35	1	37	12
32										
33	New.ReferenceOTU8969	11	5	4	28	12	0	1	2	
34	New.ReferenceOTU1852	0	0	0	0	0	0	0	0	1
35	New.ReferenceOTU3771	0	0	6	0	4	6	0	0	5
36		288250	1	1	121	13	89	178	19	24
37	New.ReferenceOTU10738	0	0	11	1	24	3	2	2	5
38										
39	New.ReferenceOTU2586	30	51	28	25	56	1	36	25	
40	New.CleanUp.ReferenceOTU85918	0	5	0	2	4	1	6	0	
41	New.ReferenceOTU10389	0	3	0	10	8	0	4	4	
42		4330423	0	0	0	0	0	0	1	0
43		4355075	0	0	1	1	0	0	3	0
44		567226	119	269	397	446	412	38	312	161
45										
46	New.ReferenceOTU10811	3	2	4	7	3	1	6	6	
47	New.ReferenceOTU1363	1	0	0	3	1	0	5	3	
48		261240	0	1	2	2	1	0	26	0
49		300859	3	16	4	13	2	11	46	3
50										
51	New.ReferenceOTU11102	4	94	5	14	16	0	7	26	
52	New.CleanUp.ReferenceOTU140068	0	18	3	7	4	0	7	15	
53		530854	23	440	56	198	130	5	33	206
54										
55	New.ReferenceOTU10838	0	2	1	4	0	0	0	0	12
56	New.CleanUp.ReferenceOTU118873	0	3	1	9	0	0	10	0	
57	New.CleanUp.ReferenceOTU50120	11	0	10	116	4	14	126	1	
58	New.CleanUp.ReferenceOTU59589	0	0	2	3	0	0	0	0	1
59	New.CleanUp.ReferenceOTU90815	4	8	8	20	0	0	1	4	
60	New.CleanUp.ReferenceOTU62967	4	3	6	5	2	0	1	1	
	New.ReferenceOTU10485	4	2	5	13	0	0	0	0	0

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2		343443	457	415	1580	435	104	14	35	68
3	New.ReferenceOTU3756		1	5	10	1	1	0	2	0
4	New.CleanUp.ReferenceOTU115530		93	67	55	35	19	0	3	2
5		47181	11	2	13	7	3	0	0	3
6	New.CleanUp.ReferenceOTU143342		1	3	8	19	2	9	11	7
7	New.CleanUp.ReferenceOTU134090		1	1	1	0	0	0	32	5
8		28970	2	14	53	34	3	7	238	48
9	New.CleanUp.ReferenceOTU122974		0	0	0	13	0	1	0	0
10		1068116	0	0	0	4	0	0	0	0
11		46566	0	2	0	0	1	85	7	16
12	New.CleanUp.ReferenceOTU106698		0	0	0	13	5	1	10	15
13		987581	4	0	0	177	18	130	110	57
14	New.ReferenceOTU2550		0	0	0	4	0	2	3	4
15		196800	0	0	0	5	4	7	18	14
16	New.CleanUp.ReferenceOTU128569		11	11	7	3	3	0	6	2
17	New.ReferenceOTU10646		0	3	1	25	0	2	14	28
18	New.ReferenceOTU10891		0	2	0	0	0	0	0	1
19	New.ReferenceOTU2200		1	12	3	13	6	1	12	9
20	New.ReferenceOTU10560		5	2	2	19	4	0	21	7
21	New.ReferenceOTU6359		0	9	2	2	1	0	4	9
22	New.CleanUp.ReferenceOTU4920		1	11	11	16	1	2	4	2
23	New.CleanUp.ReferenceOTU145850		46	170	31	48	44	9	70	140
24	New.ReferenceOTU1537		1	6	2	11	5	1	2	11
25	New.ReferenceOTU2144		0	0	0	1	0	0	3	7
26	New.ReferenceOTU10183		0	1	1	4	3	2	9	6
27		4476186	0	1	0	3	1	0	1	2
28		591785	89	486	320	608	212	202	622	932
29	New.CleanUp.ReferenceOTU121626		27	42	43	16	19	0	16	14
30	New.ReferenceOTU10859		1	3	3	1	4	0	1	0
31	New.ReferenceOTU11119		48	77	46	15	30	0	33	41
32	New.CleanUp.ReferenceOTU121714		2	5	5	16	12	5	5	1
33		524371	1	3	3	1	3	0	1	1
34		956050	1	27	44	7	10	3	1	6
35	New.ReferenceOTU6786		0	0	0	0	0	0	5	5
36	New.ReferenceOTU394		0	0	0	0	0	0	8	10
37		547854	0	0	0	24	1	9	97	90
38	New.ReferenceOTU2058		0	0	0	0	0	1	1	1
39		558458	0	0	0	0	0	0	1	3
40	New.ReferenceOTU6997		0	0	0	1	0	0	3	5
41	New.ReferenceOTU8839		0	4	2	72	8	0	3	30
42	New.ReferenceOTU11085		0	0	0	2	0	0	0	2
43	New.ReferenceOTU8757		1	85	25	18	4	4	4	15
44	New.CleanUp.ReferenceOTU26971		3	4	1	15	5	1	16	4
45	New.ReferenceOTU1359		2	2	0	23	7	1	19	4
46	New.ReferenceOTU4410		0	1	0	22	2	4	4	6
47	New.ReferenceOTU4859		0	0	0	6	6	0	15	6
48	New.ReferenceOTU2729		2	4	0	20	6	0	12	2
49	New.CleanUp.ReferenceOTU112786		17	43	3	83	81	3	67	47
50	New.CleanUp.ReferenceOTU68137		1	4	0	14	5	2	9	7
51	New.ReferenceOTU10892		2	1	0	40	4	0	18	3
52	New.ReferenceOTU6315		0	1	0	25	10	0	13	4
53	New.ReferenceOTU3652		0	2	0	16	2	0	8	1

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2		20534	78	225	119	1662	530	107	1079	316
3	New.ReferenceOTU7952		0	0	0	0	5	0	0	11
4	New.ReferenceOTU11142		0	3	1	7	9	3	0	79
5		1033345	0	1	18	4	12	5	1	69
6		527437	0	0	0	9	0	41	6	24
7		522858	0	0	1	4	1	2	2	10
8	New.ReferenceOTU4309		0	0	0	4	3	7	28	28
9		515074	0	0	5	7	46	10	33	34
10		514137	0	0	0	1	20	6	15	19
11	New.ReferenceOTU1296		0	1	0	0	0	0	4	54
12	New.CleanUp.ReferenceOTU85701		0	0	0	0	0	1	6	43
13		524213	14	6	24	56	221	80	122	71
14		531477	1	0	1	1	11	3	7	3
15	New.ReferenceOTU3403		0	0	0	4	7	0	0	2
16	New.ReferenceOTU4092		0	0	0	0	3	1	1	4
17	New.ReferenceOTU10703		0	0	0	2	13	1	8	5
18	New.ReferenceOTU11332		0	0	0	4	1	0	0	10
19	New.CleanUp.ReferenceOTU107762		12	0	2	4	44	3	19	27
20	New.ReferenceOTU1474		0	0	0	0	2	0	5	2
21	New.ReferenceOTU5058		0	0	1	2	2	2	5	9
22	New.ReferenceOTU7414		0	0	0	8	0	0	2	3
23		531596	0	55	44	255	1	2	86	36
24	New.ReferenceOTU2215		0	2	0	7	0	0	2	2
25	New.ReferenceOTU467		0	0	1	6	0	0	1	0
26	New.ReferenceOTU6666		0	1	2	8	0	0	1	1
27	New.ReferenceOTU7692		0	17	2	10	4	0	3	1
28		527408	0	0	0	4	0	0	3	0
29	New.ReferenceOTU3220		0	0	0	3	0	0	1	2
30	New.ReferenceOTU4334		0	3	0	56	0	20	22	25
31	New.ReferenceOTU4371		0	4	1	18	0	0	1	2
32	New.CleanUp.ReferenceOTU139196		0	0	0	6	0	0	1	0
33	New.ReferenceOTU6868		0	1	0	57	1	9	7	9
34	New.CleanUp.ReferenceOTU63327		0	0	0	0	0	23	1	1
35	New.ReferenceOTU407		326	739	457	203	27	15	6	92
36	New.ReferenceOTU5887		0	0	0	19	0	2	6	0
37	New.ReferenceOTU851		14	21	14	7	0	0	0	5
38	New.ReferenceOTU1008		55	115	28	11	8	1	1	6
39	New.ReferenceOTU228		2	15	6	8	0	0	0	9
40	New.ReferenceOTU4616		0	0	0	1	0	0	2	1
41	New.ReferenceOTU121		0	1	0	2	2	0	0	11
42	New.ReferenceOTU1441		0	8	0	1	19	961	20	116
43	New.ReferenceOTU8398		2	0	89	0	1	3	1	10
44		875643	0	0	3	37	30	25	7	14
45	New.CleanUp.ReferenceOTU86992		51	44	6	4	4	1	12	18
46		4369901	13	265	2	263	10	0	50	2
47		300853	443	352	379	77	157	100	346	287
48	New.ReferenceOTU5014		28	12	9	1	6	1	3	6
49	New.ReferenceOTU2527		17	16	5	0	11	0	4	1
50	New.ReferenceOTU8343		0	0	3	8	1	60	5	1
51	New.ReferenceOTU1242		0	0	0	40	137	21	6	24
52		791560	0	0	0	0	0	0	0	0
53	New.ReferenceOTU10365		0	0	0	0	0	0	0	0

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2	New.ReferenceOTU6077		0	1	0	2	5	11	22	3
3		1105615	0	0	0	4	0	0	0	0
4		49461	5	1	7	3	2	3	3	0
5		179806	0	14	46	1	21	0	0	0
6	New.ReferenceOTU3298		50	32	3	2	7	0	3	5
7	New.ReferenceOTU3290		16	24	1	1	13	0	3	7
8	New.ReferenceOTU1706		4	15	1	1	4	0	1	1
9	New.ReferenceOTU644		19	1	46	9	0	6	0	2
10	New.ReferenceOTU6615		22	62	42	5	4	0	30	7
11	New.ReferenceOTU6532		0	0	0	7	0	5	1	20
12	New.ReferenceOTU105		0	0	0	19	0	42	0	0
13		522591	12	12	19	45	11	34	51	45
14	New.ReferenceOTU9161		0	0	0	0	0	3	1	1
15	New.ReferenceOTU9873		0	0	0	45	5	7	6	37
16	New.ReferenceOTU4644		0	0	1	4	7	36	65	21
17	New.ReferenceOTU4529		7	0	20	26	4	18	15	0
18	New.ReferenceOTU7312		0	0	0	7	1	0	0	0
19		1067655	0	0	0	0	0	0	0	0
20		293013	4	4	48	105	2	11	3	20
21	New.ReferenceOTU4989		11	0	3	13	1	24	17	26
22	New.ReferenceOTU2680		86	1	49	6	87	39	7	38
23	New.ReferenceOTU3992		7	21	2	3	4	0	8	3
24	New.ReferenceOTU7413		8	18	1	1	11	1	4	4
25	New.ReferenceOTU691		8	15	3	0	7	0	2	1
26		577228	1025	1243	332	150	913	34	230	230
27		524044	6	0	1	0	5	1	2	0
28		576221	1	3	2	0	1	2	1	2
29	New.ReferenceOTU357		0	0	22	24	1	14	5	0
30		4306043	0	0	0	0	0	0	0	0
31	New.ReferenceOTU3788		0	9	0	6	0	3	22	0
32	New.ReferenceOTU9536		0	0	0	0	0	0	0	0
33	New.ReferenceOTU8856		0	0	0	427	1	28	0	0
34	New.ReferenceOTU4568		0	0	4	16	1	12	5	0
35		4358599	0	1	0	0	0	1	1	0
36		844589	0	12	0	0	0	0	0	0
37	New.ReferenceOTU1203		0	0	0	0	0	94	6	64
38		276149	3	0	0	0	0	0	0	0
39		851323	0	0	1	0	0	0	0	0
40	New.ReferenceOTU6842		0	0	0	0	4	1	3	1
41	New.ReferenceOTU1988		0	1	0	8	4	15	3	0
42	New.ReferenceOTU6399		0	0	0	0	4	16	4	0
43	New.ReferenceOTU11247		0	0	0	0	0	113	0	0
44	New.ReferenceOTU1841		3	3	33	0	2	85	18	1
45		100852	8	0	12	0	0	15	1	0
46		529173	92	0	80	0	17	202	29	1
47	New.ReferenceOTU8956		0	0	0	0	0	0	0	0
48		102513	0	0	0	0	1	0	0	0
49	New.ReferenceOTU1204		0	0	1	1	0	8	2	7
50	New.ReferenceOTU3709		0	0	2	26	10	61	20	49
51		510205	2	2	3	13	2	53	2	29
52		918187	0	0	0	2	0	4	2	4
53	New.ReferenceOTU1512		0	0	0	2	0	0	2	2

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2	New.ReferenceOTU3659		0	0	0	0	0	3	0	2
3		4003061	0	0	0	0	0	0	0	3
4	New.ReferenceOTU10948		0	0	1	1	0	12	1	0
5		921813	0	0	0	18	0	17	11	29
6	New.ReferenceOTU6663		0	0	9	1	0	12	0	0
7	New.ReferenceOTU2631		0	0	0	14	1	23	8	15
8		513985	0	0	1	0	0	20	0	5
9		520075	8	10	7	1	0	4	4	7
10		4307122	0	1	0	0	0	0	0	0
11		988375	0	8	0	0	0	10	1	2
12		355246	0	1	0	4	0	36	2	8
13		360730	0	3	0	3	0	0	0	0
14		16733	0	0	0	11	0	6	0	0
15		16915	1	4	0	353	15	501	30	25
16	New.ReferenceOTU1797		0	0	0	2	1	1	0	1
17	New.ReferenceOTU3326		0	0	0	2	0	3	0	1
18		772282	0	6	0	0	0	0	1	0
19		953855	0	0	0	0	0	0	0	0
20		911254	58	9	21	40	183	19	43	11
21		350071	14	18	3	42	48	4	9	15
22		332527	0	0	0	0	6	3	0	0
23	New.ReferenceOTU6021		1	4	1	3	4	0	3	1
24	New.ReferenceOTU5148		0	0	5	0	1	5	3	0
25	New.ReferenceOTU7023		14	9	2	8	3	0	1	3
26		3510697	336	77	650	84	100	67	42	38
27		907916	17	0	10	15	1	0	0	0
28	New.ReferenceOTU3281		15	6	3	0	5	0	0	1
29		515590	49	180	23	52	39	11	17	1
30		516366	31	180	107	217	58	51	72	137
31	New.ReferenceOTU1040		1	11	2	9	4	0	4	2
32	New.ReferenceOTU7161		0	0	6	22	0	17	1	0
33	New.ReferenceOTU1041		0	0	3	2	0	8	1	2
34		52441	0	1	0	0	1	16	5	3
35	New.ReferenceOTU7610		0	0	0	2	0	7	4	2
36		578207	4	0	0	0	0	0	1	0
37	New.ReferenceOTU2359		6	14	31	51	16	222	92	17
38		1027100	0	0	0	0	0	0	0	0
39	New.ReferenceOTU7363		0	2	2	0	0	3	0	0
40		1092802	0	3	3	80	12	63	46	2
41		352943	0	0	0	0	0	0	0	0
42		651458	0	0	10	10	35	2	9	0
43	New.ReferenceOTU10930		0	0	0	0	0	0	0	0
44	New.ReferenceOTU4455		10	11	44	6	3	12	4	10
45		552031	21	2	11	6	5	27	2	8
46	New.ReferenceOTU1096		0	0	7	44	29	39	11	0
47	New.ReferenceOTU4269		0	0	7	0	0	2	1	0
48		908071	4	0	12	6	10	19	18	0
49		298358	1	0	7	0	2	9	1	3
50	New.ReferenceOTU1256		15	5	2	3	0	5	8	4
51	New.ReferenceOTU1382		11	0	8	4	8	6	6	2
52		733799	8	19	1	0	6	6	10	5
53	New.ReferenceOTU2232		0	0	0	0	1	0	0	0

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2	New.ReferenceOTU820	0	9	0	0	0	5	0	0	
3	New.ReferenceOTU130	0	0	0	0	0	8	1	0	
4	New.ReferenceOTU6717	0	0	0	11	3	173	3	5	
5	New.ReferenceOTU545	0	1	0	0	0	0	1	0	
6		533298	2	0	0	5	1	23	1	0
7		527058	1	116	81	24	29	31	48	7
8	New.ReferenceOTU10327	0	0	0	0	0	0	0	0	0
9		163857	2	3	0	21	15	0	19	0
10		516159	82	95	19	2100	768	72	416	2
11		524117	1	5	0	56	10	3	22	0
12		523751	4	2	5	0	0	0	0	0
13	New.ReferenceOTU6787	0	0	0	0	1	2	0	0	0
14		359779	0	1	0	0	8	0	2	0
15		74192	0	0	0	0	11	2	1	0
16		109413	0	0	0	0	2	2	0	0
17		70580	0	0	0	0	6	2	1	0
18		471412	0	0	0	0	2	0	0	1
19		1111294	2	4	10	8	1	24	54	393
20		782953	0	1	3	1	0	2	18	11
21		588216	0	1	1	0	0	2	10	15
22		1951826	0	1	0	0	0	0	3	5
23		4333897	0	0	3	0	0	1	1	6
24		797229	0	140	251	36	21	127	2138	2763
25		3867172	0	0	0	0	0	0	3	1
26	New.ReferenceOTU2154	0	2	5	1	0	0	0	72	59
27		25562	0	7	8	7	0	1	27	126
28	New.ReferenceOTU9791	0	0	0	3	0	6	2	0	0
29		2892743	0	0	0	1	1	8	0	1
30		4419621	0	0	0	0	0	0	0	0
31		529652	0	0	0	4	0	5	1	3
32		636296	2	1	1	9	2	31	16	17
33		638485	0	0	0	0	0	0	1	0
34		1129038	2	14	33	1	0	21	7	0
35	New.ReferenceOTU2932	5	122	38	8	1	3	2	4	4
36		368175	14	0	5	0	1	0	3	1
37		4441081	24	6	5	1	5	0	1	0
38		288683	0	0	6	3	20	11	1	12
39		290804	17	4	56	0	0	3	1	0
40		300355	3	0	2	0	1	0	0	0
41	New.ReferenceOTU6867	22	5	14	0	1	140	2	49	49
42		354599	0	0	0	0	0	0	0	0
43	New.ReferenceOTU3017	0	0	0	0	0	0	0	0	1
44	New.ReferenceOTU10893	0	0	0	0	0	0	0	0	0
45	New.ReferenceOTU699	0	2	1	0	0	0	0	5	1
46	New.ReferenceOTU9214	0	36	0	0	0	0	0	4	0
47		856253	0	0	0	0	0	0	6	0
48		4355504	5	137	3	0	3	3	5	2
49		309470	5	0	0	97	35	151	139	0
50		68837	0	1	2	0	10	31	59	0
51		259533	0	0	0	0	0	0	0	0
52		580934	0	0	0	0	2	0	2	0
53		924224	0	0	0	0	0	0	60	0

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2	New.ReferenceOTU3875	0	0	0	0	0	3	4	0
3	New.ReferenceOTU9478	0	0	0	0	0	0	0	0
4		296406	0	0	0	210	24	3	0
5	New.ReferenceOTU2495	0	9	16	2	9	1	3	3
6		1038455	0	0	0	0	0	0	0
7		514045	0	0	0	4	0	14	0
8		297140	0	4	1	11	13	35	34
9			0	4	1	11	13	35	34
10	New.ReferenceOTU9622	0	0	0	0	0	2	0	0
11		291158	3	24	6	0	0	27	0
12	New.ReferenceOTU8817	0	1	7	0	5	0	0	0
13	New.ReferenceOTU2159	0	0	0	0	13	1	0	0
14	New.ReferenceOTU10916	2	1	0	0	0	1	11	3
15			2	1	0	0	1	11	3
16		302158	27	4	12	13	32	0	14
17		113756	17	3	3	56	99	53	374
18	New.ReferenceOTU2774	0	0	0	0	0	2	7	3
19	New.ReferenceOTU10379	0	0	0	4	7	2	20	33
20		86812	1	29	3	69	337	157	990
21		833609	4	0	1	2	5	2	19
22			4	0	1	2	5	2	19
23	New.ReferenceOTU5528	0	0	0	0	2	1	8	9
24		297260	0	0	2	12	0	33	0
25		11235	19	0	2	13	51	3	29
26		311173	15	0	7	0	0	5	1
27		34757	0	0	0	0	0	0	9
28		548699	0	0	1	0	0	1	108
29		10945	1	6	17	0	0	38	21
30			1	6	17	0	0	38	21
31	New.ReferenceOTU1065	0	2	0	0	0	0	10	3
32		294747	0	0	0	2	0	0	0
33		292585	0	0	0	0	2	0	0
34		617806	0	2	0	0	3	0	0
35		4315785	0	1	7	0	1	0	0
36		837859	0	0	0	0	0	0	0
37		324020	0	0	0	0	0	0	0
38			0	0	0	0	0	0	0
39	New.ReferenceOTU4211	0	0	0	0	0	0	0	0
40		134399	2	8	0	2	6	1	0
41		42636	0	0	0	0	0	0	0
42		410242	5	0	15	0	5	0	7
43		99414	0	1	0	0	0	0	0
44		317515	0	1	0	1	2	0	0
45		295100	0	0	0	0	0	0	0
46		353336	0	0	0	0	0	0	0
47		799443	0	0	0	0	0	0	2
48		799443	1	10	0	1	0	2	0
49	New.ReferenceOTU1186	0	6	0	0	1	0	0	0
50		529258	9	2	25	0	17	0	3
51		798164	18	1	1	0	5	6	2
52		4453903	1	0	3	0	0	0	0
53		572130	4	4	2	5	39	10	2
54		827702	0	0	0	0	1	0	0
55		349752	0	5	17	0	1	2	0
56		619919	0	0	5	0	0	1	5
57		512398	0	0	1	0	0	0	0
58		353214	0	0	0	0	0	2	0
59		305261	0	0	0	0	0	2	0
60		305261	2	0	2	0	3	2	0

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2		584107	1	1	0	0	0	0	0	0
3		621649	1	0	5	0	4	32	0	0
4		345834	3	0	2	0	4	15	0	0
5		552988	1	1	1	2	2	0	3	0
6		348839	1	0	9	2	2	2	0	0
7		305187	0	0	7	12	4	0	0	0
8		313089	2	0	1	0	2	0	0	0
9		366391	0	0	0	0	0	3	0	0
10		308912	0	0	1	0	3	0	1	0
11		325254	0	0	0	0	0	0	0	0
12										
13	New.ReferenceOTU10318		0	1	0	0	0	0	0	0
14	New.ReferenceOTU2844		0	0	0	0	0	0	0	0
15										
16		644244	0	0	0	0	6	19	17	0
17		370217	0	0	0	1	1	0	0	0
18		570052	0	0	2	1	1	4	0	0
19		335884	0	0	0	1	0	0	0	0
20		337057	0	0	0	0	5	1	0	0
21		4451049	0	0	0	0	0	0	0	0
22		187492	0	0	14	9	19	1	1	0
23		888914	0	0	0	0	0	0	3	0
24		4296764	0	0	0	0	0	0	1	1
25										
26	New.ReferenceOTU5926		0	0	0	0	0	5	4	0
27	New.ReferenceOTU5623		0	0	2	0	0	0	2	3
28	New.ReferenceOTU5775		0	0	0	1	1	0	3	0
29		187767	0	0	0	3	0	0	2	0
30		172163	1	2	16	14	0	3	15	4
31	New.ReferenceOTU1559		0	0	0	0	0	1	0	0
32		110842	3	1	17	7	2	44	6	0
33		343831	1	0	1	1	0	7	2	2
34										
35	New.ReferenceOTU6230		0	0	0	0	13	0	1	0
36		4323524	0	0	0	0	1	32	8	0
37										
38	New.ReferenceOTU2439		0	0	0	0	0	0	0	0
39	New.ReferenceOTU3795		0	0	5	0	0	0	4	0
40		197539	0	0	0	0	2	0	1	0
41		3060611	8	0	1	0	0	0	0	2
42		4334844	0	0	0	2	1	0	6	1
43		4406814	0	0	2	0	0	0	0	0
44		368490	0	1	0	0	2	0	0	0
45		198167	9	0	23	2	0	0	5	1
46		323200	0	0	2	0	0	0	0	0
47		605577	0	0	0	3	0	0	0	0
48		532232	0	0	0	0	0	0	0	3
49		533277	0	0	0	0	0	0	0	0
50		292057	1	1	0	3	14	2	1	7
51		24271	0	0	0	0	1	0	0	0
52		338757	3	15	2	2	4	11	10	14
53		725198	3	20	37	3	1	3	3	10
54		536754	4	22	16	5	4	1	1	3
55		588197	152	57	140	12	29	22	32	13
56		581474	73	21	0	3	65	19	14	29
57		549756	9	1	0	0	6	2	2	4
58		553352	11	7	0	0	9	3	5	5
59										
60										

1										
2		302975	10	35	9	4	2	1	1	8
3		703741	268	818	566	65	71	33	68	160
4		807795	12	33	29	2	0	0	2	4
5		583746	0	20	0	0	0	0	0	0
6		215963	0	0	0	9	2	1	7	5
7		306124	0	4	0	2	0	0	1	0
8		149335	0	0	0	5	0	0	6	0
9		311471	0	9	0	84	13	1	4	6
10		812596	1	1	0	1	0	91	15	0
11	New.Reference	OTU741	0	0	0	0	0	14	1	0
12										
13		341657	0	1	13	3	7	7	0	1
14	New.Reference	OTU6110	0	81	56	27	21	84	2	9
15	New.Reference	OTU4403	0	2	0	1	15	1	2	2
16										
17		513552	0	2	0	0	2	0	0	0
18		72926	12	84	2	15	237	19	83	18
19		517344	10	143	25	20	664	39	153	30
20		4406819	0	0	0	0	1	1	0	0
21	New.Reference	OTU3703	5	0	3	0	0	1	0	2
22										
23		541328	6	0	1	0	0	0	0	0
24		555562	0	0	0	0	1	0	0	0
25		530061	0	0	6	0	6	0	0	0
26	New.Reference	OTU3327	0	0	0	0	0	0	2	0
27	New.Reference	OTU10514	5	4	21	0	0	1	2	1
28										
29		337379	1	20	4	4	54	6	4	1
30		843459	0	4	2	0	7	0	0	0
31		526583	8	13	8	0	1	0	0	2
32		555945	0	0	1	0	1	0	0	0
33		712677	0	9	0	0	1	0	3	0
34		337392	0	0	1	0	0	10	0	1
35	New.Reference	OTU7634	0	0	0	45	0	17	0	0
36										
37		578588	7	0	2	0	1	0	0	0
38		683621	77	39	16	8	22	61	85	32
39		524842	17	4	4	0	3	7	2	4
40	New.Reference	OTU10710	3	0	0	0	0	0	0	0
41										
42		302433	0	0	21	3	2	141	1	3
43	New.Reference	OTU3436	0	0	2	0	0	30	0	0
44	New.Reference	OTU9743	0	0	12	1	7	2	0	0
45										
46		36792	0	0	13	0	0	1	0	0
47		208539	6	0	4	0	1	0	0	0
48		347636	0	0	17	6	0	0	0	0
49		33133	2	0	0	0	0	3	0	2
50		4455005	0	0	0	1	0	12	0	1
51		337511	8	9	6	2	2	1	0	4
52		4380006	0	0	2	3	5	42	0	12
53	New.Reference	OTU7944	0	0	1	1	0	12	0	3
54	New.Reference	OTU9226	0	0	2	0	0	33	8	1
55										
56		337784	6	1	3	3	3	0	1	0
57	New.Reference	OTU8825	0	0	0	0	0	13	0	0
58										
59		1084643	0	0	0	0	0	16	0	0
60		314204	2	0	7	1	5	0	0	2
	New.Reference	OTU8919	0	0	0	0	0	0	0	0
	New.Reference	OTU9525	1	0	0	0	6	4	3	1

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2		355187	1	4	0	0	1	0	0	0
3		461487	0	0	4	0	2	7	0	1
4		584263	0	1	2	0	0	5	2	0
5		249776	0	1	0	0	0	0	0	0
6		362450	0	0	0	0	0	0	0	0
7		515299	7	0	2	0	1	0	0	0
8		210262	8	0	0	0	13	0	0	0
9		1110312	10	6	18	8	39	10	1	6
10		348897	0	0	0	0	0	0	0	0
11		772972	2	0	0	0	0	0	0	0
12		312490	0	14	0	1	1	4	0	0
13		323818	12	2	1	2	6	0	0	0
14										
15	New.ReferenceOTU1457		0	0	0	0	0	1	0	0
16		552448	0	0	1	4	0	0	0	0
17										
18	New.ReferenceOTU11125		0	0	1	0	0	0	0	0
19		559659	2	3	2	4	0	1	1	3
20		309745	0	0	0	0	0	1	0	0
21										
22	New.ReferenceOTU7211		0	0	3	2	10	4	0	0
23		356245	0	0	0	0	3	4	0	9
24		184287	0	0	0	7	0	0	1	0
25		321960	19	1	0	3	9	8	0	1
26		719058	4	0	0	0	1	2	0	0
27		1111350	0	0	1	0	5	0	0	0
28		592065	0	2	3	0	0	2	0	1
29										
30	New.ReferenceOTU2811		0	1	5	0	0	0	0	0
31	New.ReferenceOTU1994		0	0	2	3	0	13	7	2
32	New.ReferenceOTU491		0	1	9	11	3	0	2	0
33		300613	0	0	0	0	1	3	0	3
34		4338990	0	0	1	2	1	0	1	2
35		4439487	2	0	4	0	0	1	0	0
36										
37	New.ReferenceOTU10800		1	0	0	0	1	0	0	0
38		581201	0	1	7	1	0	0	0	5
39		235212	0	0	2	0	1	2	2	1
40										
41	New.ReferenceOTU7656		0	2	0	0	3	0	0	7
42	New.ReferenceOTU4443		0	0	0	2	0	1	1	0
43		367946	9	7	0	0	13	34	4	4
44		4439489	0	0	0	2	2	0	0	1
45		296094	9	0	13	3	0	4	0	0
46		330285	0	0	0	3	2	0	2	0
47		359445	0	0	2	0	8	2	0	2
48		291206	6	2	103	0	43	0	1	4
49		329729	0	0	0	13	0	0	0	0
50		290322	0	0	0	0	0	0	0	0
51		359563	76	19	86	47	53	22	16	8
52		564941	10	2	5	2	1	3	0	0
53		361398	7	0	3	1	0	0	0	0
54		758482	1	0	3	0	10	10	4	0
55		4399755	0	0	0	12	2	2	1	2
56		359720	7	0	0	0	9	1	0	1
57		349680	28	3	17	17	79	7	6	1
58		292816	15	16	5	13	15	2	1	6
59		366633	1	1	3	0	4	0	0	0
60										

1										
2		521792	42	2	20	6	10	3	1	1
3		1016598	0	0	0	0	0	0	0	0
4		1035392	1	0	2	3	2	2	1	0
5		345763	0	0	5	5	11	2	2	0
6		347085	0	0	0	1	12	0	0	0
7		340809	1	1	0	2	9	0	0	0
8		555101	2	0	3	0	6	0	0	1
9		576712	11	0	2	0	0	10	4	0
10		427159	7	4	23	0	1	1	0	0
11		870421	14	1	20	1	31	3	1	0
12		537959	0	0	0	0	0	7	1	0
13		531867	0	0	0	0	1	4	0	0
14		592139	31	0	44	2	9	35	6	5
15										
16	New.ReferenceOTU4928		5	12	5	0	0	3	0	1
17		353173	89	1	57	0	51	2	2	0
18		528782	126	12	176	8	8	14	10	8
19		319818	35	2	142	0	34	2	1	0
20		570341	0	0	46	0	3	0	0	0
21		539202	0	0	1	0	0	0	0	0
22		720093	32	1	8	0	0	0	4	0
23		291171	0	0	3	0	1	0	0	0
24		558420	2	0	15	0	0	1	0	0
25		641783	202	30	328	8	50	25	8	2
26		298804	0	0	2	0	0	0	0	0
27		721569	2	0	4	0	0	0	0	0
28		433722	1	2	7	11	15	3	8	0
29		558599	19	1	50	32	27	48	1	7
30		580121	0	0	6	0	1	0	0	0
31		334839	4	2	0	0	0	4	9	2
32		198151	5	8	1	0	0	0	0	0
33		191332	29	68	14	3	31	0	8	2
34										
35										
36										
37	New.ReferenceOTU3279		2	3	1	1	0	1	2	0
38		375106	0	3	3	0	0	0	2	0
39		310886	5	1	4	42	16	10	13	10
40	New.ReferenceOTU7077		2	0	1	0	0	0	1	0
41		316925	2	0	5	1	3	5	0	1
42		1026524	0	1	2	1	1	3	6	0
43		204093	1	0	7	0	6	12	2	0
44										
45	New.ReferenceOTU490		0	2	0	0	1	0	0	0
46	New.ReferenceOTU3914		0	0	0	0	0	0	1	0
47		296941	4	3	2	0	8	0	0	0
48		270303	0	0	0	0	0	1	0	1
49		519763	0	0	0	1	0	1	0	0
50		569826	0	0	13	11	3	13	0	0
51		581265	1	0	26	12	0	12	1	1
52		443620	1	0	0	4	0	0	0	0
53		158183	0	1	1	8	0	0	0	2
54		304777	0	1	0	0	0	0	0	0
55		4362724	0	0	2	7	0	1	0	6
56		157772	1	1	2	0	0	0	12	0
57										
58	New.ReferenceOTU10212		0	0	0	1	0	0	1	0
59		328905	1	1	0	0	2	4	3	2
60										

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2	New.ReferenceOTU9063	0	0	4	2	1	0	2	2	
3		291571	8	20	6	0	2	0	1	3
4		528752	7	6	11	56	14	36	15	18
5		540862	0	18	0	2	2	0	0	0
6		408513	19	41	9	7	5	0	6	5
7		322895	2	12	11	8	2	32	4	6
8		366584	5	21	2	398	1	38	10	12
9		819181	0	4	12	109	71	59	17	218
10		199286	0	0	0	3	4	1	1	6
11		520720	2	1	0	0	0	0	1	0
12										
13	New.ReferenceOTU6776	32	24	25	7	8	24	3	3	
14	New.CleanUp.ReferenceOTU118183	0	3	1	0	3	0	0	0	4
15		548692	23	14	40	4	50	16	22	28
16		520931	9	7	25	4	30	8	18	18
17										
18	New.ReferenceOTU2041	11	6	15	0	18	1	17	7	
19	New.ReferenceOTU5001	0	0	1	0	6	5	0	0	2
20		272953	12	0	5	1	17	45	22	20
21	New.ReferenceOTU10850	0	0	10	25	1	6	8	7	
22		36503	0	0	0	0	0	0	1	0
23		306315	7	2	9	0	0	0	0	2
24										
25	New.ReferenceOTU4549	1	0	3	3	4	0	0	0	1
26		522699	13	4	9	2	18	10	1	2
27		198814	18	0	4	12	63	2	2	8
28		655793	25	1	68	46	58	106	6	4
29										
30	New.ReferenceOTU368	0	0	2	0	0	3	0	0	
31		1110378	113	518	47	2	29	7	5	12
32		314582	32	23	10	54	0	0	23	14
33		348009	0	0	0	3	1	18	5	4
34		334797	20	31	10	14	11	5	6	2
35		333363	0	0	0	0	0	0	0	0
36		362078	1	4	6	1	1	0	6	2
37		1062061	31	3	33	348	8	79	24	4
38		176645	2	7	5	7	11	15	21	14
39		553080	0	0	0	15	2	8	1	0
40		351927	53	7	25	53	80	30	8	3
41		535399	1	3	0	5	4	11	1	4
42										
43	New.ReferenceOTU5855	0	1	0	1	2	1	0	0	
44	New.ReferenceOTU3892	1	0	4	5	0	13	2	0	
45		510070	0	0	0	1	0	1	1	0
46		250784	0	0	0	4	0	0	0	0
47		574122	25	1	3	1	8	3	1	2
48		40149	0	0	162	1	3	55	6	85
49										
50	New.ReferenceOTU7593	0	0	0	0	0	3	2	72	
51		324244	22	0	18	11	126	6	12	0
52		302809	7	0	9	1	10	3	3	0
53		175377	0	0	1	0	0	5	0	0
54		291202	1	5	1	0	0	0	0	5
55		697548	0	0	0	0	0	0	1	1
56		336890	5	21	7	0	1	0	2	1
57		40798	30	1	3	46	7	3	2	2
58		738351	15	0	31	48	4	10	1	8
59		308157	0	0	0	2	1	12	1	3
60										

1										
2		269611	1	1	0	5	1	13	1	5
3		4267520	0	5	0	13	0	4	15	14
4		551902	0	51	0	2	1	0	1	0
5		523140	3	16	8	0	34	0	0	1
6		530928	0	0	0	0	0	0	0	2
7		351663	27	0	6	0	1	4	0	3
8		196392	2	0	1	1	0	0	0	0
9		308786	0	0	0	0	0	7	0	0
10		43052	0	0	0	0	0	0	1	0
11		362342	30	3	15	2	1	0	2	2
12		608244	40	3	0	0	2	2	0	1
13		593824	5	5	6	3	0	0	0	0
14		332831	0	11	13	0	25	0	3	9
15		566899	3	24	40	0	2	0	0	8
16		509788	1	1	2	0	2	0	0	0
17		302144	0	0	0	0	0	2	0	0
18		322004	0	0	0	0	0	2	0	0
19		279534	1	2	0	7	4	27	1	4
20		712142	2	3	0	28	22	39	20	86
21		350979	2	1	1	0	0	0	0	0
22		46910	4	0	6	0	0	0	2	1
23		276561	0	7	0	0	0	0	0	0
24		359984	33	2	0	0	0	0	0	0
25		333325	0	0	0	0	0	0	0	0
26		304531	0	0	0	0	1	0	0	0
27		365965	35	4	34	13	16	3	7	6
28		958505	1	0	1	0	0	0	0	0
29		147100	0	0	3	0	0	7	4	0
30		844006	1	3	3	3	5	1	3	0
31		4303850	0	0	0	0	0	1	1	0
32		290399	0	0	0	0	1	0	0	0
33		369109	0	61	0	53	4	27	52	32
34	New.ReferenceOTU3102		25	27	0	0	15	59	5	1
35		301280	1	0	15	4	33	16	1	2
36	New.ReferenceOTU8405		0	0	0	0	0	0	1	1
37		301386	0	0	0	0	0	0	0	0
38		189312	0	7	0	8	4	6	8	37
39		297065	0	2	0	0	2	0	0	1
40		30872	15	82	10	5	99	2	9	5
41		345730	0	0	0	3	0	0	0	0
42		343709	0	0	20	13	2	1	3	3
43		303213	1	3	0	2	0	0	0	0
44		356167	0	1	78	0	0	0	0	0
45		292575	9	6	7	0	1	0	0	0
46	New.ReferenceOTU5866		0	5	27	1	3	12	0	0
47		557051	0	0	0	0	0	0	0	0
48		362991	4	0	4	7	0	0	0	0
49		193755	0	0	2	2	8	0	0	0
50		346720	15	9	8	2	31	0	0	0
51	New.ReferenceOTU8097		0	0	0	0	1	0	0	0
52		562408	26	12	31	0	10	10	4	1
53		192079	3	3	1	0	1	0	0	2

1										
2	New.ReferenceOTU3939		0	0	2	1	1	0	0	0
3		552380	2	4	0	3	0	3	1	0
4		318997	0	0	0	0	0	0	0	0
5	New.ReferenceOTU471		0	0	0	1	0	0	0	0
6		262258	0	0	0	0	0	0	0	0
7		333195	0	0	0	0	0	0	0	0
8		43051	0	1	0	0	1	1	0	0
9		148925	4	16	1	4	116	15	3	3
10		248492	4	2	3	1	1	0	0	0
11		33112	0	0	7	0	0	0	0	0
12		526413	4	1	9	1	2	0	0	0
13										
14	New.ReferenceOTU5400		0	2	0	0	2	1	0	5
15		519882	0	0	0	0	1	0	0	0
16		166689	1	1	4	0	1	2	1	1
17	New.ReferenceOTU7703		5	4	3	0	4	1	0	3
18		157455	0	38	0	1	1	0	0	0
19		851865	5	8	3	4	48	2	5	7
20		514523	0	0	0	2	4	0	0	0
21		525215	2	1	2	5	4	0	3	0
22		366794	5	1	4	2	15	0	5	6
23		525698	40	53	80	165	249	2	118	61
24		291543	0	1	2	0	3	0	0	2
25		51306	0	0	5	0	4	3	0	1
26		515953	0	1	73	17	14	4	108	14
27		361811	0	7	0	6	0	0	1	1
28		29495	0	0	0	1	10	31	2	13
29		560535	26	37	15	77	14	1	3	12
30		359175	1	1	0	1	0	0	1	1
31		367213	12	8	4	13	12	3	26	12
32		584951	15	4	31	16	17	5	3	21
33		199182	4	1	3	3	0	1	0	3
34	New.ReferenceOTU2924		10	1	1	0	2	0	0	0
35	New.ReferenceOTU3593		1	0	1	6	5	3	1	0
36		313423	0	0	0	0	0	0	0	0
37		48088	0	2	0	0	0	2	0	0
38		295410	0	7	0	7	22	15	10	3
39		335527	1	0	2	0	4	32	10	0
40	New.ReferenceOTU101		0	0	0	1	0	2	0	0
41		529873	0	0	0	1	0	0	0	3
42		739387	5	1	1	1	2	1	1	4
43		306866	0	0	1	12	1	20	0	1
44	New.ReferenceOTU7990		0	0	0	7	0	5	0	0
45	New.ReferenceOTU11302		0	0	0	0	0	31	0	0
46	New.ReferenceOTU10080		1	1	3	0	0	0	0	0
47		198552	1	0	9	1	0	0	0	0
48	New.ReferenceOTU11047		0	1	0	1	1	5	2	1
49	New.ReferenceOTU11114		0	8	1	18	25	40	33	37
50	New.CleanUp.ReferenceOTU69721		0	2	0	1	0	0	0	3
51		339504	0	4	1	2	3	2	4	5
52		528692	0	23	14	18	55	40	49	80
53		584463	0	1	0	0	0	0	0	0
54		22371	0	0	0	2	2	0	0	0

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2	New.ReferenceOTU7671	0	0	0	1	15	5	3	9
3	New.ReferenceOTU10047	0	1	1	0	0	3	0	1
4	New.ReferenceOTU11082	0	3	0	0	4	0	0	8
5	New.CleanUp.ReferenceOTU111198	0	1	0	0	1	35	0	0
6	New.ReferenceOTU11197	0	0	0	0	0	30	0	0
7		340761	0	5	0	2	15	2	0
8		195465	0	6	0	0	17	2	1
9		362947	0	3	3	1	4	0	1
10		300235	2	192	97	43	25	4	12
11		621472	0	3	0	0	0	0	1
12		701221	0	9	1	11	24	0	2
13		708680	2	98	41	166	745	29	92
14		571178	0	8	0	26	59	42	6
15		524575	0	1	4	37	2	45	4
16		184465	0	0	0	2	5	7	1
17		522107	1	0	0	0	2	3	2
18		532771	0	0	3	0	1	5	0
19		589852	1	6	18	34	116	42	10
20		368261	26	18	14	21	29	8	2
21		562038	1	0	0	1	4	2	5
22		580090	0	11	0	0	2	2	1
23		366716	0	1	0	0	0	0	0
24		322505	17	5	10	10	11	8	9
25		531436	0	0	0	0	3	1	0
26			0	0	1	2	0	4	4
27	New.ReferenceOTU3580		0	0	0	1	0	0	0
28	New.ReferenceOTU7292		0	0	0	1	0	0	0
29		4387706	4	1	0	0	1	1	0
30		1105328	0	0	0	0	0	3	1
31		804526	44	18	79	1	11	0	1
32		531052	0	0	60	18	4	7	3
33		339791	1	0	2	0	0	26	3
34		842596	1	1	0	0	0	0	1
35	New.ReferenceOTU5842		0	0	0	0	0	0	0
36		347189	0	0	0	0	2	1	1
37		352852	0	0	46	3	27	3	8
38		357471	0	0	2	0	6	0	0
39		360329	1	0	0	1	9	0	3
40		509383	7	7	15	16	151	2	20
41		526468	0	0	0	0	0	0	0
42	New.ReferenceOTU9138		0	0	0	0	0	0	1
43		299179	0	0	0	0	0	0	1
44		879327	0	0	0	0	0	8	0
45		353195	2	24	160	15	17	36	11
46		584137	0	2	1	0	0	2	0
47		19873	0	0	0	0	0	0	0
48		262936	3	0	0	0	0	0	1
49	New.ReferenceOTU2208		0	0	0	1	1	3	2
50		791522	0	37	189	1	1	0	1
51	New.ReferenceOTU584		0	0	0	0	0	43	1
52		356138	4	0	0	0	2	1	1
53		304154	0	1	9	0	3	1	0
54		34413	9	1	3	1	8	3	0
55									
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1										
2		168071	0	2	0	0	3	2	0	0
3		316037	29	13	21	2	1	11	3	0
4		369027	1	19	11	0	8	4	0	5
5	New.ReferenceOTU7458		0	0	0	0	2	1	1	0
6		355697	6	3	0	13	33	25	9	0
7	New.ReferenceOTU8691		2	0	0	3	3	2	0	0
8		846386	0	1	0	0	0	0	0	0
9		772384	4	0	5	0	6	3	0	1
10		561171	8	67	3	0	2	0	1	0
11		369429	8	9	6	0	2	0	0	0
12		370361	7	4	2	0	0	0	0	0
13		370183	11	1	6	0	1	0	0	4
14		70067	0	0	0	0	0	2	0	0
15		20439	0	1	27	0	6	0	0	0
16		355817	20	2	4	0	0	2	0	0
17		36330	0	0	6	0	0	5	1	0
18		354461	1	0	0	0	6	0	0	0
19		523934	0	11	6	0	0	0	0	0
20		567715	0	0	22	0	4	2	0	0
21		546876	2	0	0	0	0	0	1	0
22		570507	35	33	81	1	2	0	12	10
23		1076587	4	14	2	6	4	0	0	2
24		291493	0	0	0	6	1	0	16	0
25		299059	0	0	0	0	0	0	1	0
26		577406	1	1	3	1	1	0	0	0
27		574689	5	2	9	16	12	1	4	10
28		759751	0	0	0	0	16	37	2	0
29	New.ReferenceOTU3242		0	0	0	0	3	1	0	0
30		574038	0	1	0	0	1	16	0	1
31		531773	10	13	8	1	74	12	2	0
32		355630	3	9	8	5	3	26	5	8
33		293665	0	1	0	14	0	12	18	0
34		457614	3	33	8	7	1	0	4	61
35		216111	0	7	0	17	3	0	2	0
36		338992	1	15	4	14	2	0	3	25
37		181170	2	16	3	2	0	0	0	10
38		352733	5	16	44	11	3	0	0	19
39		177061	0	2	0	3	0	0	0	21
40		351659	1	0	1	1	0	2	0	0
41		535601	35	4	15	29	11	15	4	4
42		363400	11	4	0	0	5	0	0	0
43		361727	0	0	0	0	0	0	0	0
44		364736	0	0	0	0	0	0	0	0
45										
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	T0-604	T0-622	T0-603	T0-609	T0-599	T0-608	T0-662	T1-506	T1-509	T1-510	T0-661	T1-564	T1-543
5	0	0	1	1	0	1	0	0	0	0	0	0	0
6	2	0	8	6	3	11	5	0	2	0	3	5	0
7	5	0	0	1	0	1	4	4	0	0	2	4	19
8	5	1	0	1	0	0	0	7	4	1	5	6	4
9	26	2	1	5	4	15	3	17	22	2	12	21	26
10	0	0	0	0	0	0	0	21	3	0	0	16	0
11	0	0	0	0	3	0	0	0	14	0	0	0	0
12	0	0	0	0	0	0	0	0	0	2	12	0	0
13	0	0	0	0	0	0	0	0	81	0	1	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0
15	11	1	1	7	8	8	1	0	1	12	4	5	4
16	0	0	0	0	0	0	0	0	33	1	0	6	0
17	10	0	3	11	11	9	2	0	5	13	5	12	2
18	7	0	0	4	6	3	0	0	0	14	8	14	1
19	1	0	1	3	1	0	1	0	0	1	0	2	0
20	0	2	5	0	0	0	0	0	7	0	0	0	0
21	4	1	0	9	7	1	0	0	73	95	61	2	0
22	1	0	0	1	0	0	0	0	0	2	1	0	0
23	2	0	0	0	0	0	0	0	1	1	2	11	0
24	0	0	0	1	0	0	0	0	0	0	4	20	0
25	20	0	0	1	0	0	0	1	2	0	15	255	1
26	1	4	0	7	3	0	1	0	0	0	7	0	0
27	0	0	0	3	0	0	0	0	14	1	2	0	0
28	14	0	35	28	15	71	0	3	6	32	25	59	0
29	31	1	57	38	33	114	1	4	10	53	45	66	0
30	39	2	0	73	9	0	0	10	11	25	19	12	2
31	1	3	0	0	0	0	0	0	15	0	1	0	0
32	1	0	0	0	3	0	0	34	1	25	3	1	0
33	13	7	9	2	1	16	19	3	12	0	4	2	10
34	0	14	0	0	1	0	0	0	30	7	1	38	0
35	0	0	0	0	0	0	0	2	0	0	0	1	22
36	0	0	0	0	0	0	0	0	5	10	1	2	0
37	0	0	0	0	0	0	0	0	1	0	0	0	0
38	0	0	0	1	0	0	0	2	11	5	3	11	0
39	9	8	10	1	0	2	22	4	6	5	2	0	0
40	0	0	0	0	0	0	0	0	13	0	5	2	0
41	0	0	0	2	2	0	0	0	7	0	2	4	0
42	1	0	0	1	0	1	0	2	2	0	2	0	0
43	0	0	0	0	2	0	0	0	2	3	4	0	0
44	1	0	2	2	3	0	0	0	7	3	1	0	0
45	0	0	0	6	0	0	0	0	0	2	9	0	0
46	0	1	0	4	0	0	0	1	1	7	4	0	0
47	3	3	0	3	0	0	0	0	0	3	2	0	0
48	1	0	0	1	1	0	0	1	4	0	3	1	0
49	5	0	0	81	15	0	0	1	19	24	9	32	0
50	0	0	0	1	1	0	0	0	0	0	2	1	0
51	10	0	0	4	34	0	0	3	0	0	8	0	0
52	0	0	0	4	44	0	0	1	4	0	0	0	0
53	37	15	0	14	13	5	1	0	13	1	187	0	0
54	25	2	0	15	5	1	0	2	79	62	4	3	0

1													
2	0	3	4	0	0	0	1	0	2	0	1	2	0
3	0	0	0	1	2	2	0	0	6	1	0	0	0
4	1	0	0	0	2	0	0	0	3	0	4	0	0
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8													
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11	479	1198	1491	968	396	1677	3357	415	329	59	357	407	1052
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37	10	3	1	2	9	0	36	0	0	0	0	1	0
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39	20	37	51	18	14	54	5	3	4	1	8	4	0
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44													
45	228	229	613	205	160	798	38	117	258	274	142	136	22
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21	3	11	24	3	2	1	2	2	0	0	2	0	1
22	1	0	8	6	4	0	21	0	0	0	1	0	0
23	91	249	206	22	40	88	105	15	8	0	17	0	3
24	5	5	25	1	0	13	1	0	0	0	2	0	0
25	0	25	3	2	0	1	1	0	2	0	1	2	0
26	12	20	13	1	5	2	1	5	1	0	1	0	0
27	4	0	6	1	1	0	1	2	1	0	0	0	1
28	719	990	1398	326	272	653	471	754	176	19	268	36	93
29	12	32	49	8	18	17	9	7	25	1	8	10	4
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31	25	40	50	14	25	36	17	29	29	5	18	7	14
32	12	19	14	1	21	5	2	8	18	0	5	101	1
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34	9	2	49	8	15	65	18	0	35	7	17	39	0
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36	5	86	2	0	0	0	19	3	10	0	3	8	0
37	24	438	53	13	12	7	104	67	475	0	53	421	47
38	0	7	3	0	0	0	1	0	1	0	1	1	0
39	0	4	0	0	0	0	0	0	8	0	0	6	0
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2	116	134	212	129	285	14	557	35	135	176	157	340	102
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7	1	0	5	3	2	0	7	0	13	0	1	17	0
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9	13	32	35	7	27	1	15	2	104	28	6	25	7
10	5	17	25	1	6	0	10	1	73	32	8	15	0
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24	82	30	7	21	31	271	88	8	8	30	53	164	0
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37	34	0	0	4	2	0	0	2	8	2	14	17	0
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48	302	546	187	375	85	165	457	34	157	110	112	31	43
49	12	27	13	5	0	6	12	0	1	0	3	0	1
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8													
9	11	3	10	0	3	7	1	1	0	0	4	0	2
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22													
23	3	1	6	125	30	10	5	10	104	85	29	20	0
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29													
30	491	121	74	192	449	1122	353	380	223	473	621	611	2523
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32	2	0	0	0	1	3	0	0	1	1	1	0	5
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35	15	0	0	1	1	0	5	0	33	0	7	17	0
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37													
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44													
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52													
53	14	0	1	34	13	282	0	0	51	0	30	28	0
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60	0	0	0	0	3	0	1	0	1	3	1	0	0

1													
2	0	0	0	0	4	0	0	1	2	1	2	1	0
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6	1	6	0	0	1	0	0	2	2	3	1	1	0
7													
8	11	5	2	7	9	4	1	1	30	48	5	13	0
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16													
17	74	122	0	496	265	7	1	1657	24	1173	279	54	0
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22													
23	32	20	30	140	46	79	2	22	68	25	41	23	18
24	47	56	6	53	105	75	0	357	11	24	261	17	0
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29													
30	139	45	113	166	72	160	39	130	187	195	85	154	99
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32	3	2	5	0	1	5	2	1	0	1	4	0	1
33	41	6	17	9	39	28	5	128	5	38	49	24	122
34	226	47	162	77	128	287	62	260	42	196	51	129	212
35	10	1	5	3	7	10	1	7	3	6	0	6	8
36	0	1	0	0	3	0	0	0	4	58	3	0	0
37													
38	4	0	0	9	7	0	0	0	1	18	2	0	0
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40	0	0	2	4	13	3	0	2	1	19	1	18	0
41	4	2	1	1	3	4	1	3	0	2	4	0	0
42	161	68	42	37	131	153	17	38	21	50	253	11	0
43	0	0	0	0	1	0	0	1	0	17	5	0	0
44													
45	0	0	0	1	3	42	0	45	0	1	1	20	0
46	18	20	0	101	115	68	5	73	11	17	70	8	0
47	0	3	0	1	32	0	0	0	0	1	1	3	0
48	10	0	87	666	130	89	0	0	109	11	26	0	0
49	1	0	5	25	3	7	0	0	6	1	2	0	0
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51	23	15	8	5	3	4	12	62	5	11	6	15	5
52	36	0	25	48	52	10	0	73	15	19	19	11	0
53													
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7	53	7	78	83	14	28	19	53	41	4	32	4	4
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26	400	82	140	111	100	43	213	33	205	519	354	5	74
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34	11	18	7	4	17	9	5	7	8	1	11	34	21
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40	19	0	0	9	7	0	0	0	39	18	7	60	0
41	8	0	3	8	6	5	0	4	17	10	2	22	14
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43	26	3	0	3	19	0	0	1	0	0	12	22	0
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46	0	12	0	14	0	0	0	46	0	0	0	0	0
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52	16	2	2	21	3	37	0	13	23	6	24	12	0
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55	3	0	0	3	1	0	0	22	0	0	7	6	0

1													
2	2	0	0	3	1	0	0	133	0	0	7	12	0
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7													
8	55	0	0	0	10	0	0	0	0	0	62	0	0
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12	2	4	4	2	7	10	0	4	5	12	14	1	0
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15													
16	11	170	16	48	25	43	29	67	82	52	125	91	0
17	201	272	85	261	41	366	244	340	656	126	129	810	13
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20	205	539	137	92	43	640	632	437	453	256	361	270	44
21	1	8	3	3	1	3	7	13	12	2	2	4	0
22													
23	2	5	1	0	0	0	5	2	1	0	0	2	0
24	2	2	0	0	15	11	0	37	0	0	1	3	3
25	77	142	19	329	15	209	12	175	232	75	49	268	3
26	3	0	0	4	7	2	1	4	0	2	8	6	0
27	0	0	0	0	0	0	8	2	0	0	0	2	0
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22	76	6	21	29	11	60	4	17	127	35	8	30	230
23	6	17	2	2	6	8	0	6	22	1	0	14	279
24	11	4	0	0	1	0	0	0	0	3	2	80	168
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28	265	12	106	30	2	47	1	1	0	19	11	1	17
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25	4	2	48	1	15	28	48	18	64	7	29	44	4
26	0	0	1	0	3	2	2	0	0	0	2	0	1
27	0	0	5	0	11	2	0	0	0	0	12	0	0
28	0	3	4	0	1	2	6	0	5	0	7	1	2
29	0	1	4	0	1	1	1	0	1	3	1	3	0
30	0	1	4	0	1	1	1	0	1	3	1	3	0
31	108	756	820	156	430	604	233	184	860	225	742	411	77
32	4	7	10	4	31	24	3	20	27	11	18	30	3
33	0	2	1	1	6	7	0	5	4	1	0	3	0
34	14	19	30	16	61	58	2	47	111	15	57	43	8
35	0	0	2	6	5	0	0	7	12	26	1	9	4
36	0	1	2	0	1	2	0	4	4	0	0	2	0
37	0	7	7	7	33	0	0	42	2	36	3	5	9
38	0	0	5	0	38	4	0	0	0	0	3	1	2
39	0	0	36	0	36	14	2	0	0	8	29	0	5
40	82	5	634	16	1535	290	8	5	0	147	1039	26	32
41	0	0	5	0	16	4	0	0	0	0	14	0	0
42	0	0	9	2	19	4	0	0	0	2	20	0	0
43	0	0	3	0	11	1	0	0	0	0	7	0	0
44	6	0	42	3	124	4	3	1	1	16	1	0	0
45	0	0	1	0	1	0	0	0	0	0	0	0	0
46	0	11	16	0	7	4	1	7	4	12	8	21	0
47	0	0	0	0	0	0	0	0	0	0	0	0	8
48	0	0	0	0	0	0	0	0	0	2	0	1	14
49	0	0	0	0	0	0	0	0	0	0	0	0	4
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52	0	0	0	1	0	3	0	0	9	0	0	17	16
53	0	0	0	0	0	0	0	0	0	0	1	0	0
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55	0	0	0	1	0	0	0	0	0	0	0	0	4
56	0	0	0	0	0	0	0	0	2	0	0	1	4

1													
2	4	21	23	31	3	24	9	3	115	27	10	190	808
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5	4	0	55	6	1	0	0	1	6	11	0	0	2
6	9	3	3	10	0	0	0	1	2	47	31	3	6
7	2	0	4	1	0	4	0	0	2	11	4	5	1
8	3	2	13	5	1	11	2	33	9	6	4	3	0
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10	7	0	17	1	6	71	19	9	76	4	9	3	1
11	0	0	2	0	0	0	0	20	0	1	4	1	20
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13	82	5	124	10	20	552	156	101	633	60	77	77	18
14	4	0	7	0	0	15	4	4	27	0	1	1	0
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17	0	0	0	0	0	0	0	0	1	1	0	0	2
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21	0	0	1	0	0	2	0	2	5	0	0	0	0
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23	6	48	131	32	996	37	36	35	55	144	112	292	42
24	0	2	0	1	4	0	1	0	0	1	0	5	0
25	0	1	1	0	45	0	0	0	0	2	0	0	1
26	0	0	2	0	2	0	0	1	0	0	0	2	0
27	0	0	1	0	19	0	8	1	1	4	1	14	0
28	0	0	6	0	0	0	0	1	0	0	4	3	2
29	0	1	5	0	0	0	0	0	1	0	1	1	0
30	0	26	23	17	1	4	0	11	6	15	11	37	2
31	0	0	0	0	0	0	0	0	0	0	1	0	1
32	0	1	0	3	0	0	0	0	0	4	2	0	4
33	9	29	0	18	0	3	0	22	5	61	40	0	28
34	0	0	0	0	0	0	0	0	0	28	0	0	0
35	10	133	9	37	39	180	36	12	11	12	94	229	18
36	5	16	4	8	0	1	0	10	6	67	11	0	6
37	0	1	0	0	1	0	1	0	1	0	2	0	0
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41	0	0	0	0	0	0	2	1	0	0	0	0	0
42	1003	9	1	3	0	80	0	3	2	28	81	158	22
43	0	1	0	0	0	0	0	5	0	0	3	0	16
44	0	6	0	1	0	32	0	10	0	85	9	1	38
45	0	2	9	2	0	6	7	0	2	1	5	6	2
46	0	5	297	90	90	0	75	0	57	2	58	30	1
47	268	102	96	198	10	402	5	89	91	180	218	317	185
48	0	0	0	1	0	2	0	0	1	0	1	1	2
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51	355	39	2	4	18	23	0	0	1	40	86	28	216
52	0	0	0	0	0	0	0	0	0	0	0	0	0
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1													
2	31	5	8	11	11	6	0	23	0	21	0	3	19
3	0	0	0	0	2	2	0	0	1	0	0	0	0
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8	0	0	1	0	0	0	0	5	2	6	1	1	2
9													
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11	14	22	37	8	18	46	1	13	15	27	14	59	4
12	0	0	0	2	5	0	0	0	0	1	0	0	10
13	0	0	0	0	0	0	0	0	0	0	0	0	0
14													
15	73	85	108	51	27	28	7	8	63	50	10	79	30
16	1	0	2	0	0	0	0	0	0	1	0	1	2
17	7	1	1	9	0	3	0	0	0	7	0	0	0
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19	21	233	1	25	1	126	0	9	9	13	38	8	21
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21	0	1	0	1	0	1	0	0	0	0	0	0	0
22													
23	31	216	1	80	0	67	0	2	2	34	5	4	56
24	4	18	34	28	0	19	0	37	0	18	0	5	13
25	47	13	22	26	2	40	0	32	1	9	5	1	35
26	0	0	0	3	3	0	0	1	0	0	0	0	0
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28	0	4	0	0	1	3	4	1	4	3	0	4	1
29													
30	839	753	761	1270	205	395	240	251	564	387	199	450	137
31	2	1	1	3	0	0	2	0	2	0	1	0	0
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35	0	7	0	0	0	3	0	8	1	32	0	6	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	8	5	1	2	0	0	0	0	3	1	3	23
38	3	1	0	7	0	24	0	0	0	0	0	0	7
39	0	0	0	0	0	0	0	1	1	0	0	0	0
40	0	1	8	3	1	0	1	8	0	0	0	0	1
41													
42	6	0	2	69	0	18	0	0	0	1	5	0	116
43	0	0	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	0	0
45													
46	18	32	0	0	0	9	0	0	0	0	0	0	1
47	355	151	0	5	3	1	0	0	0	27	17	25	7
48	34	292	0	1	0	73	0	0	0	2	2	2	10
49	0	0	0	0	0	0	0	0	0	0	0	0	0
50	107	12	4	5	7	0	0	2	6	0	14	10	12
51	24	1	0	0	0	0	0	1	0	6	0	0	5
52													
53	249	27	0	0	0	0	0	6	0	62	1	3	20
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55	0	0	0	0	0	0	0	0	0	0	1	0	0
56	5	4	0	0	1	2	0	0	0	2	1	0	2
57	45	51	15	19	9	21	0	0	0	36	11	4	37
58	12	16	4	0	3	9	1	6	0	5	2	2	7
59	5	5	1	0	0	0	0	0	0	2	0	0	4
60	1	2	0	0	1	0	0	0	0	0	1	1	3

1													
2	0	0	0	2	0	0	0	0	3	1	0	0	1
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7	24	24	10	3	12	16	0	1	0	10	4	0	13
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9	14	92	66	44	17	9	16	128	45	21	17	13	22
10	3	0	0	0	0	0	0	0	0	0	0	1	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0
13	11	0	0	0	0	0	0	0	0	0	0	1	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0
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16	461	0	0	0	0	0	0	0	0	15	3	0	2
17	946	262	20	128	1	70	0	77	6	31	11	3	219
18	4	0	0	0	0	0	0	0	0	0	0	0	1
19	1	0	0	0	0	0	0	0	0	0	0	0	0
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21	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0
23	118	331	36	74	13	43	0	57	6	17	16	37	32
24	91	311	271	305	5	57	0	26	2	69	14	14	8
25	4	10	12	9	0	1	0	0	0	3	0	0	1
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27	9	24	5	1	3	11	0	0	0	1	1	0	6
28	0	1	4	3	0	0	0	1	2	1	0	2	0
29	50	304	320	107	38	118	51	54	88	110	61	170	56
30	3	4	4	0	1	5	0	3	1	3	4	2	4
31	0	0	3	2	0	1	0	0	2	0	1	0	1
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33	58	26	34	41	17	18	0	13	9	29	7	36	4
34	32	47	232	156	88	90	7	333	116	306	87	107	61
35	3	0	6	9	1	1	0	12	2	15	2	6	3
36	0	0	13	0	2	6	0	0	0	5	0	0	2
37	4	46	0	0	0	9	0	0	0	0	0	0	1
38	4	46	0	0	0	9	0	0	0	0	0	0	1
39	35	49	1	5	1	0	0	1	0	1	0	0	37
40	8	12	0	1	0	0	0	2	0	2	0	0	6
41	15	4	3	2	2	0	0	0	2	1	0	1	1
42	94	18	36	29	77	10	1	34	4	101	2	5	252
43	14	17	0	0	1	6	0	1	0	0	0	0	0
44	0	39	0	0	0	0	1	1	0	1	1	0	6
45	0	0	13	0	2	6	0	0	0	5	0	0	2
46	57	240	6	17	2	15	0	13	0	13	15	4	26
47	0	8	0	0	0	10	0	0	0	0	6	4	0
48	36	441	0	44	58	46	0	9	0	0	14	7	26
49	3	16	0	2	1	4	0	0	0	0	0	2	3
50	8	46	9	0	7	15	0	5	0	22	1	0	23
51	16	8	27	16	6	27	0	5	26	8	1	5	5
52	25	21	9	29	5	38	0	3	0	14	3	2	11
53	3	7	6	3	0	3	0	2	0	2	0	4	1
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55	5	6	1	2	5	88	0	2	0	18	0	0	11
56	0	5	2	1	0	23	0	1	0	4	3	7	26
57	2	12	21	3	11	11	0	4	0	1	1	3	0
58	3	5	6	2	0	12	0	1	0	3	2	0	2
59	23	11	38	38	10	14	0	2	9	14	7	15	7
60	0	4	2	9	4	1	0	0	0	0	2	4	1

1													
2	0	10	3	6	0	0	0	0	0	6	1	7	4
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4	0	375	2	0	0	225	0	2	0	0	10	4	0
5	0	0	0	0	0	0	0	0	0	0	46	0	0
6	3	13	2	8	13	0	1	0	1	0	2	9	2
7	72	12	150	71	38	36	26	18	11	96	24	89	18
8	0	0	0	1	0	0	0	0	0	0	0	0	0
9	0	0	3	1	0	0	1	1	0	1	0	0	0
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11	1	2	119	34	3	12	126	61	11	17	56	180	0
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21	0	0	0	5	0	18	0	1	1	7	2	4	1
22	0	0	1	0	0	5	0	0	0	0	0	0	0
23	0	0	0	0	0	2	0	0	0	0	0	0	2
24	0	0	0	0	0	1	0	0	2	0	0	0	0
25	0	0	0	0	0	0	1	0	0	2	0	0	0
26	1	0	1	0	0	8	0	0	0	1	0	0	0
27	23	18	20	51	5	563	17	47	143	39	46	162	166
28	0	0	0	0	0	2	0	0	2	0	0	0	2
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30	0	25	1	7	5	92	1	0	10	0	2	14	7
31	0	2	0	0	0	0	0	2	0	6	0	2	0
32	0	2	0	1	0	0	0	0	0	0	2	3	2
33	0	2	0	1	0	0	0	0	0	0	2	3	2
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35	0	2	4	6	1	4	0	4	13	0	2	2	5
36	6	20	3	22	4	12	3	15	15	3	9	22	9
37	30	16	12	0	3	14	0	1	0	3	0	13	26
38	8	35	11	0	17	7	0	2	0	6	3	3	12
39	0	20	21	0	12	3	0	5	0	3	10	64	25
40	9	5	28	23	5	2	0	6	10	4	8	6	1
41	0	4	13	1	7	5	0	25	8	2	3	1	1
42	0	4	13	1	7	5	0	25	8	2	3	1	1
43	50	23	8	43	15	33	0	6	4	0	29	11	30
44	1	23	2	23	0	8	0	0	0	3	9	0	0
45	0	1	9	1	0	0	0	1	0	5	0	1	0
46	0	1	9	1	0	0	0	1	0	5	0	1	0
47	141	111	6	54	0	1	0	0	4	0	4	0	1
48	1	34	3	14	0	0	0	0	0	0	17	0	1
49	5	237	6	119	0	0	0	0	0	1	88	0	25
50	0	0	0	0	0	0	0	0	0	3	0	0	0
51	0	11	5	0	0	0	0	0	0	0	0	0	1
52	2	13	21	9	0	24	0	20	0	5	0	0	2
53	2	13	21	9	0	24	0	20	0	5	0	0	2
54	50	391	7	0	0	180	0	0	1	0	0	0	0
55	2	15	16	12	0	36	9	97	0	46	0	2	1
56	25	26	11	2	47	63	0	83	0	224	34	31	56
57	37	82	9	23	5	4	0	3	0	23	4	9	48
58	0	1	0	0	0	0	0	0	0	24	0	0	0
59	0	0	0	0	0	0	0	0	0	348	0	0	0
60	72	6	5	6	0	0	0	2	0	4	8	4	295

1													
2	23	31	10	6	0	0	0	3	0	0	11	0	473
3	0	0	0	0	0	0	0	0	0	0	0	0	0
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5	23	6	6	1	15	15	0	20	0	8	5	4	9
6	0	1	0	0	8	0	0	0	0	0	1	0	16
7	0	0	0	0	0	0	0	0	0	0	0	0	0
8													
9	333	153	13	2	347	9	0	118	0	383	104	5	156
10	0	16	0	0	0	0	0	0	0	0	12	0	0
11	14	36	19	21	16	0	0	39	2	45	6	21	12
12	4	9	0	0	0	10	0	0	0	9	0	2	11
13	0	0	0	0	2	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	1	0
15													
16	85	221	0	11	6	75	51	138	60	30	11	1	102
17	346	212	42	41	43	419	136	236	614	65	281	719	241
18	1	0	0	0	0	0	1	0	0	0	0	0	2
19	14	1	0	0	1	7	6	23	2	7	0	0	16
20	626	3	9	68	149	363	314	757	143	275	96	64	312
21	9	10	0	5	0	5	5	7	4	0	1	3	9
22													
23	1	0	0	0	1	0	4	4	0	0	2	0	4
24	1	0	0	0	0	0	1	1	4	0	1	0	0
25	182	32	22	28	10	192	72	163	197	46	101	229	60
26	8	9	0	0	2	10	0	3	8	0	2	4	0
27	0	0	0	0	0	1	0	0	0	0	3	0	0
28	0	0	0	0	0	7	0	0	7	0	26	4	0
29													
30	5	6	0	3	0	0	0	1	1	0	3	0	1
31	0	0	0	0	0	0	0	0	0	0	1	0	0
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33	0	7	0	0	0	0	0	0	0	0	0	0	0
34	1	3	2	0	0	0	0	1	0	7	9	0	1
35	0	5	3	0	0	3	0	2	0	0	0	0	0
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37													
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40	8	0	1	0	0	0	0	9	0	1	12	1	0
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42	5	7	2	4	0	10	0	10	0	1	6	6	3
43													
44	0	12	11	0	0	0	0	0	0	0	0	0	0
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46	0	4	9	1	0	0	0	0	0	0	0	1	0
47	0	18	0	1	0	3	0	0	0	0	1	0	0
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49	3	24	9	3	0	10	0	0	0	2	4	6	1
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51	16	102	13	21	4	5	0	6	0	4	14	3	7
52	6	6	2	5	0	1	0	0	0	1	0	0	1
53													
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55	3	0	11	0	0	2	0	0	0	1	0	0	0
56	3	10	8	4	0	16	0	0	0	0	11	4	1
57	13	50	20	19	5	1	0	5	0	2	5	6	0
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59	0	1	4	1	0	0	0	0	1	1	0	1	0
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1													
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27	0	44	0	0	0	4	0	0	0	0	2	0	0
28	5	47	0	2	0	5	0	5	0	1	8	5	5
29	1	26	0	0	0	0	0	0	0	2	0	0	0
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35	1	5	0	0	0	0	0	0	0	0	17	0	0
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37	1	8	0	1	0	0	0	1	0	1	2	1	1
38	1	3	2	0	0	0	0	5	0	1	0	5	3
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46	0	0	4	13	2	0	0	1	0	0	0	9	3
47	6	0	8	6	0	0	0	0	0	2	0	2	4
48	0	1	0	8	1	0	2	1	0	3	1	4	0
49	14	1	1	2	0	0	3	2	12	10	3	13	1
50	0	0	2	1	0	0	0	0	3	2	1	4	0
51	32	159	178	135	25	118	36	98	155	201	91	148	32
52	6	89	186	158	227	139	65	73	38	177	191	87	35
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54	1	12	25	24	29	16	9	7	8	34	21	15	12

1													
2	1	5	3	5	9	0	7	5	5	3	10	0	3
3	117	291	390	264	95	77	249	228	433	233	263	161	84
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6	0	0	24	27	13	8	3	16	8	59	15	11	3
7	0	0	5	0	4	1	0	3	0	1	0	0	0
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9	3	2	7	5	5	9	25	1	3	14	31	53	0
10	330	1	7	14	0	269	48	216	258	313	551	431	37
11	127	4	0	0	14	0	0	0	0	3	7	1	3
12	0	2	0	2	1	2	2	0	19	2	0	23	0
13	1	16	2	0	26	8	12	5	150	21	10	218	1
14	6	0	0	1	9	0	0	0	0	3	0	0	3
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16	73	3	0	60	319	49	11	12	13	99	52	11	42
17	182	6	9	172	528	59	12	13	19	59	116	45	48
18	0	7	1	6	0	2	0	0	0	0	0	0	0
19	9	3	2	22	1	9	0	2	0	0	2	3	2
20	0	0	0	0	0	7	2	2	1	1	4	1	1
21	0	2	3	7	0	35	4	0	1	11	19	8	2
22	1	0	1	1	0	13	13	65	6	22	15	12	2
23	0	0	0	0	0	0	0	0	0	5	0	0	0
24	11	1	4	6	0	9	0	10	1	0	12	1	1
25	2	77	67	74	1	183	7	31	0	9	31	8	4
26	0	9	1	4	0	23	0	3	0	2	11	7	2
27	5	62	9	11	1	7	0	7	5	6	6	0	8
28	0	18	0	4	0	19	28	1	0	1	13	3	0
29	2	147	7	27	0	59	3	7	0	8	22	1	1
30	7	7	0	26	0	15	0	2	0	0	5	0	1
31	39	2	0	0	0	7	0	0	1	0	0	1	1
32	2	15	2	5	0	1	0	0	0	0	0	0	0
33	46	100	6	32	1	30	0	18	2	11	14	16	73
34	5	19	5	1	0	7	0	4	0	6	2	3	13
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36	19	5	5	55	15	14	2	19	8	16	14	41	14
37	0	0	0	1	1	0	0	2	0	0	2	1	2
38	1	40	10	5	0	37	0	17	0	26	13	12	0
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40	0	1	2	1	0	0	0	0	0	1	0	2	0
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42	0	13	0	7	0	0	0	3	0	0	0	0	0
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44	10	3	2	6	1	0	0	0	0	1	2	0	6
45	5	9	2	2	8	17	0	2	3	6	8	5	15
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47	0	8	1	3	0	0	0	1	1	2	0	0	0
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49	20	0	0	5	2	38	0	1	0	0	4	3	9
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51	0	34	10	30	0	5	0	2	0	4	0	0	0
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53	0	0	0	1	0	2	0	3	0	3	0	0	0

1													
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3	0	3	33	18	2	3	0	5	1	0	0	0	1
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5	0	32	9	0	2	6	0	2	0	1	23	0	0
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7	0	3	13	0	2	19	0	3	3	11	12	0	1
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9													
10	5	32	25	33	41	51	19	84	14	57	39	67	11
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14	0	6	0	0	3	0	3	20	3	11	0	3	0
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20	0	63	0	0	0	0	0	12	0	0	0	0	1
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26	0	1	0	0	0	4	0	0	0	0	0	0	0
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32	0	172	0	2	0	14	0	2	0	0	2	56	15
33	2	3	3	4	0	2	1	0	0	5	0	0	0
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37	0	6	2	0	0	0	3	1	0	2	2	3	7
38	2	81	4	2	1	3	0	6	0	1	0	0	7
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40	4	3	2	4	0	2	0	0	0	0	0	1	0
41													
42	79	58	48	83	1	27	3	15	1	16	6	9	8
43	3	1	0	3	0	0	0	1	0	1	0	1	0
44	3	70	21	17	0	30	0	2	0	2	1	22	5
45	0	8	1	1	0	3	0	0	0	1	0	0	0
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47	0	41	0	30	6	162	0	11	0	3	23	5	10
48	0	0	0	0	0	0	0	0	10	4	0	2	0
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50													
51	83	122	87	34	6	42	10	14	4	25	19	41	9
52	7	28	7	8	1	2	0	10	0	2	0	3	2
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56	31	4	33	1	2	11	4	3	1	5	2	1	0
57	43	21	41	18	0	37	8	6	1	23	8	17	5
58	10	19	17	24	3	3	3	8	2	15	1	3	1
59	2	2	0	5	0	0	0	0	1	1	1	5	1
60													

1													
2	8	16	5	14	5	5	1	8	0	2	4	8	6
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14	17	62	2	53	2	66	0	16	0	15	23	1	24
15	6	12	0	3	9	24	0	2	0	5	11	5	11
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17	6	220	79	68	20	38	32	28	31	7	66	100	35
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19	1	31	0	0	2	7	0	1	0	0	0	0	1
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21	0	7	4	2	3	3	0	2	0	4	2	1	0
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24	59	281	31	338	13	51	4	155	0	65	201	113	41
25	0	0	0	0	0	0	0	0	0	0	14	0	0
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27	120	38	98	21	29	148	0	8	1	10	12	18	16
28	82	15	57	22	12	56	5	34	0	33	34	22	25
29	1	2	0	0	0	1	0	2	0	0	0	0	0
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31	0	0	5	1	5	0	0	0	0	3	0	4	0
32	6	22	97	1	40	28	0	10	7	95	5	164	4
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36	0	0	0	0	2	4	0	0	0	1	2	0	1
37	0	11	0	0	0	4	0	0	0	1	0	0	2
38	1	2	2	0	0	0	0	0	0	0	0	0	0
39	5	6	5	9	2	7	0	2	2	0	2	9	1
40	1	5	3	3	1	0	0	0	0	0	0	1	5
41	0	30	0	0	0	31	0	0	0	1	2	2	0
42	10	2	6	4	6	14	4	5	29	6	7	8	1
43	8	0	2	1	2	1	0	0	0	2	0	0	4
44	3	0	0	1	1	0	0	0	7	0	3	0	4
45	5	6	0	2	0	3	0	0	0	0	1	0	0
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47	0	6	0	0	0	20	0	5	0	0	0	0	0
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50	6	2	0	10	1	3	1	2	3	2	1	10	0
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53	4	0	1	2	0	1	0	0	0	1	0	1	0

1													
2	2	0	1	0	1	0	0	0	0	4	0	0	0
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4	17	8	10	13	40	17	5	9	58	30	20	40	14
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6	11	6	5	18	7	0	0	3	2	2	3	0	3
7	15	0	18	18	3	147	0	1	6	23	10	98	1
8	22	7	45	6	16	13	2	3	21	27	6	24	1
9													
10	362	89	81	83	13	49	4	37	89	46	20	3	63
11	6	0	3	1	0	1	0	0	2	0	0	0	3
12	0	0	4	3	1	4	0	2	2	5	0	2	0
13	2	8	1	6	9	5	0	6	4	1	5	2	0
14	2	0	6	3	1	2	0	3	1	4	5	1	5
15													
16	64	44	71	74	51	136	3	37	30	71	46	27	29
17	22	9	30	33	15	37	6	17	3	25	29	15	11
18	8	11	31	25	16	21	2	6	3	12	16	12	6
19	1	0	2	0	0	1	0	0	0	0	2	2	4
20	22	11	14	154	6	57	12	7	177	21	45	11	19
21	8	5	17	10	11	4	0	3	0	6	11	5	21
22													
23	2	2	0	4	6	5	0	1	0	0	0	1	4
24	0	0	2	0	3	2	0	0	3	1	1	0	0
25	1	9	7	4	1	3	0	0	0	9	8	2	2
26	11	20	25	13	15	19	7	9	6	8	13	13	3
27	44	5	13	22	0	22	1	14	1	6	7	14	3
28													
29	261	18	240	150	51	65	3	181	10	105	32	86	125
30	1	0	10	0	2	0	0	2	0	5	0	0	3
31	21	11	113	6	65	60	23	29	1	28	31	27	1
32	8	0	165	14	38	8	14	14	28	15	18	60	0
33	8	0	0	2	0	0	0	1	1	1	5	2	1
34	46	22	45	43	25	41	0	11	11	32	20	11	19
35	1	0	1	0	0	0	0	0	0	0	23	9	0
36	1	1	20	12	1	9	2	1	7	1	4	4	0
37													
38	94	146	113	193	6	261	2	20	4	32	26	12	2
39	70	108	21	19	3	17	5	46	1	18	0	1	5
40	5	4	0	1	0	4	0	1	0	0	0	0	2
41	11	26	15	62	4	16	1	10	6	9	8	1	3
42	3	17	5	9	9	9	9	13	17	10	5	4	7
43	1	3	1	0	2	0	1	4	1	0	0	0	0
44													
45	26	1	2	35	3	47	0	6	0	1	8	10	4
46	1	3	1	2	2	2	0	6	4	1	0	0	0
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49	70	78	12	17	6	196	0	78	2	436	14	8	17
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51													
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53	9	1	10	23	2	22	2	0	0	13	0	2	2
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15	12	61	1	6	8	23	0	1	0	3	4	5	0
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22	0	22	43	36	2	14	11	24	51	20	0	11	0
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53	1	0	0	0	1	3	0	4	2	2	7	1	4

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15	93	2	11	27	60	32	16	172	3	39	244	21	25
16	9	1	11	9	69	7	2	63	0	3	232	7	41
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20													
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22	9	6	45	25	32	13	13	29	150	22	24	46	44
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38	1	1	5	7	116	30	10	24	7	68	18	5	117
39	0	0	0	1	55	11	18	7	0	6	22	6	0
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41	62	29	18	409	158	22	32	30	12	15	13	75	23
42	0	4	0	14	0	0	9	1	7	1	0	2	0
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46	13	83	44	98	13	151	1	151	0	50	74	5	40
47	0	1	0	1	1	1	0	2	0	2	2	0	0
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51	53	1	8	5	263	109	41	242	17	190	55	15	8
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55	4	10	0	7	6	11	1	5	0	8	7	6	1

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3	0	21	8	2	1	5	0	0	0	21	1	6	0
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22	6	24	99	67	10	14	6	135	16	14	91	31	9
23	4	4	36	9	4	11	4	24	32	12	19	28	13
24	0	0	56	1	58	103	293	45	241	76	85	77	0
25	0	0	0	0	5	4	17	1	7	5	6	5	0
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45													
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26	0	0	0	0	0	0	0	0	0	0	0	0	8
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29	132	23	0	12	61	0	130	419	79	87	72	72	372
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49	0	1	0	0	2	0	0	0	1	1	0	1	1
50	0	0	0	0	0	0	0	1	23	0	0	2	0
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53	6	2	0	0	2	0	3	17	61	31	16	1	15

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3	2	0	0	0	0	0	0	1	4	1	3	0	2
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5	2	2	0	0	0	0	2	6	9	0	0	0	0
6	13	12	0	0	0	0	0	0	5	0	0	0	84
7	4	15	23	11	29	25	10	5	16	22	0	4	16
8	52	0	5	0	0	4	0	0	139	0	0	0	90
9	0	0	3	8	6	0	0	3	0	0	1	0	0
10	1	0	1	26	19	0	1	26	7	5	1	0	0
11	0	6	0	0	0	8	0	0	0	0	0	0	1
12	6	38	0	3	4	99	0	3	8	0	0	1	5
13	12	2	0	0	0	0	25	7	4	7	0	1	7
14	16	0	0	0	0	0	18	8	5	5	0	2	10
15	5	3	0	0	0	0	24	1	0	4	0	0	0
16	1	4	12	0	4	9	3	0	0	0	0	0	2
17	0	1	0	9	13	0	0	4	11	0	0	0	0
18	5	1	2	0	0	4	0	0	18	0	1	265	1
19	5	80	0	6	5	0	0	0	0	2	0	0	0
20	4	1	0	0	0	1	0	0	94	1	0	0	5
21	0	0	0	0	0	0	0	1	49	0	0	5	4
22	0	0	0	0	0	3	3	0	1	2	0	1	5
23	0	0	0	0	8	0	28	9	3	16	0	1	2
24	12	51	4	15	72	10	29	24	20	29	55	20	14
25	4	0	0	0	6	1	16	1	1	0	0	0	5
26	14	25	9	15	25	0	117	7	17	0	3	15	58
27	0	0	0	0	3	0	5	2	1	0	1	5	0
28	2	0	0	0	5	0	2	0	0	1	0	2	8
29	0	0	0	3	2	0	5	2	0	4	0	0	1
30	9	0	0	0	0	0	0	3	3	4	0	0	0
31	3	0	0	1	0	0	0	0	12	0	0	0	5
32	1	0	47	0	0	3	13	20	0	0	0	0	0
33	9	5	0	1	4	7	11	2	3	8	0	2	11
34	15	0	0	4	0	0	27	1	28	0	11	0	58
35	0	0	2	0	3	0	0	0	6	0	0	0	0
36	0	0	0	7	1	4	0	3	10	8	8	31	1
37	0	0	1	0	0	2	0	1	7	0	1	8	0
38	5	2	5	3	3	22	6	1	0	3	0	0	0
39	3	11	1	0	1	0	3	0	9	15	0	1	38
40	2	0	0	1	0	0	5	1	2	1	0	0	8
41	4	1	3	0	4	46	27	0	0	0	0	0	4
42	0	0	0	0	0	0	0	1	9	5	0	16	0
43	18	0	0	0	0	0	0	0	14	12	0	0	138
44	0	1	2	1	1	2	44	5	0	0	1	0	4
45	5	0	2	0	0	5	14	13	36	46	0	0	89
46	0	0	0	0	0	0	0	0	0	2	0	0	0
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53	0	0	0	0	0	0	0	0	0	0	0	0	0

1													
2	11	4	0	0	0	0	0	7	8	0	4	46	55
3	14	0	0	0	0	0	0	2	9	0	0	7	2
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6	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	1	0	0	1	0	0	2	0	8	0	19	0
8	0	0	0	0	1	0	0	0	0	0	0	0	0
9													
10	45	0	0	5	0	0	0	2	0	0	3	0	29
11	16	0	0	18	31	0	0	28	0	4	4	0	8
12	0	9	0	0	0	0	0	0	0	0	0	0	4
13	8	39	51	2	3	0	1	0	0	0	22	77	0
14	204	73	9	254	142	0	11	86	47	11	210	86	87
15	0	1	0	3	1	0	4	1	17	0	7	0	3
16	0	0	0	0	0	0	0	0	5	1	3	0	6
17	0	0	0	0	0	0	0	0	5	1	3	0	6
18	12	13	0	6	9	0	5	12	4	6	6	0	0
19	25	10	4	8	16	3	1	3	9	0	2	2	3
20	0	0	0	0	0	0	0	0	0	0	0	0	0
21	11	6	0	65	0	1	5	0	5	0	1	1	18
22													
23	100	83	49	49	110	10	75	268	196	202	169	160	98
24	1	2	2	2	0	0	0	2	0	4	0	0	1
25	2	0	0	0	9	0	0	0	0	0	0	2	0
26	1	1	2	0	0	0	1	0	0	1	0	0	7
27	0	0	1	0	0	0	5	0	5	0	0	0	3
28	4	0	0	0	0	0	0	0	0	0	4	0	6
29	0	0	1	0	1	0	18	4	3	0	1	24	109
30	0	0	0	0	0	0	0	0	1	0	0	0	0
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32	1	0	4	0	0	13	12	0	0	0	0	0	30
33	0	4	0	0	0	0	0	0	0	1	4	0	0
34	1	1	0	2	1	0	1	0	0	23	0	0	0
35	1	0	0	0	0	0	0	1	3	5	2	0	0
36	0	0	0	0	0	0	2	0	0	19	17	0	0
37													
38	93	28	4	0	20	0	13	46	66	145	260	15	267
39	2	0	0	0	0	0	0	0	2	1	2	0	7
40	0	0	0	0	0	0	0	0	0	0	0	0	0
41	46	2	2	0	10	0	2	5	1	35	68	0	34
42	14	5	1	1	11	0	7	9	2	20	2	1	27
43	16	0	1	41	0	0	0	4	0	20	199	0	0
44	18	3	13	0	5	1	4	1	2	2	6	3	1
45	6	2	1	1	1	0	0	7	2	5	1	1	2
46	1	1	3	2	4	0	0	1	0	9	1	2	6
47	1	1	3	2	4	0	0	1	0	9	1	2	6
48	5	0	0	0	0	0	0	0	0	0	0	0	22
49	2	0	3	0	0	0	0	0	0	0	0	0	0
50	0	0	7	0	0	0	0	0	0	0	0	0	0
51													
52	36	69	0	26	94	0	3	1	3	1	11	1	15
53	0	0	0	0	0	0	21	0	14	20	2	2	4
54	5	8	0	5	0	14	0	0	0	0	0	0	0
55	77	71	15	97	8	352	24	1	0	3	4	25	22
56	1	3	0	0	1	10	2	0	0	0	0	0	0
57	8	13	3	1	5	0	47	32	27	17	20	0	50
58	25	45	51	28	33	2	5	98	19	167	17	44	106
59	6	3	0	0	1	0	0	0	7	0	0	0	1
60	0	3	1	0	1	0	0	1	0	4	0	0	1

1													
2	0	0	2	0	0	0	2	0	0	1	0	0	4
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4	19	29	18	3	10	1	1	12	0	14	3	0	20
5	18	22	25	9	1	1	11	25	6	115	15	2	56
6	4	0	1	0	0	0	0	1	2	0	5	0	6
7	76	28	4	1	3	0	6	29	134	8	110	2	287
8	2	1	0	0	0	0	0	2	0	0	0	0	3
9													
10	144	54	0	5	94	0	20	25	53	26	11	72	142
11	792	332	1	24	418	0	118	164	251	102	110	338	694
12	13	33	0	2	13	0	7	6	3	3	0	2	11
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16	2	0	0	0	0	0	0	3	1	2	0	0	1
17	7	13	6	2	9	0	1	0	3	2	1	5	7
18	11	8	4	2	13	5	0	1	14	4	1	5	17
19													
20	194	263	94	82	170	61	62	38	223	85	51	123	295
21	2	8	4	0	3	1	1	0	4	5	3	5	1
22	6	23	14	10	4	1	0	2	1	5	0	0	3
23	2	18	3	8	0	3	2	0	0	0	0	0	3
24	9	0	0	0	0	0	0	0	0	0	0	0	10
25	4	11	218	1	1	21	0	2	28	31	3	4	0
26													
27	291	343	23	13	181	5	47	73	216	16	15	7	751
28	250	131	36	24	122	3	18	84	151	126	33	20	761
29	0	0	1	2	2	0	2	2	5	6	0	2	4
30													
31	114	11	1	0	119	0	17	13	186	64	60	1	147
32	10	11	0	0	3	0	4	4	2	1	1	1	16
33	4	2	0	0	1	0	1	0	5	0	0	0	4
34	75	45	10	6	83	1	40	59	14	44	38	129	159
35	34	4	0	1	20	0	7	3	7	0	0	25	15
36	29	15	61	19	82	0	55	53	24	180	59	134	49
37	55	0	64	1	9	0	84	4	0	0	11	5	162
38	2	28	11	0	33	4	43	87	24	83	65	21	201
39	6	17	2	0	9	0	68	25	19	100	48	8	166
40													
41	136	7	0	0	1	0	113	51	0	104	110	0	136
42	0	0	4	4	0	0	0	1	0	0	0	5	0
43	0	7	8	16	1	0	0	0	0	0	0	0	1
44	1	4	5	4	0	1	0	2	0	0	0	0	0
45													
46	96	67	61	103	25	39	34	82	33	27	44	50	56
47	0	0	0	3	0	0	0	0	0	1	0	0	0
48	57	11	11	5	34	0	97	19	21	48	14	7	30
49	0	1	2	2	0	9	0	0	0	0	0	0	2
50	1	16	5	5	2	58	0	0	0	0	0	0	2
51	0	2	3	0	0	9	0	0	0	0	0	0	0
52													
53	229	248	107	135	94	863	0	4	3	1	0	63	67
54	1	17	9	8	2	29	0	0	0	0	0	1	3
55	6	6	33	9	0	13	22	0	0	3	0	6	5
56	2	1	5	1	0	0	7	0	0	0	0	0	1
57	0	1	2	0	0	2	3	1	0	4	0	1	0
58	0	0	1	0	0	0	3	0	0	1	0	1	0
59	7	8	100	17	1	32	29	2	0	7	0	1	6
60	0	0	10	0	0	1	5	0	0	0	0	0	0

1													
2	2	0	12	0	0	0	6	0	0	0	0	0	0
3	2	0	2	0	1	2	0	2	0	0	0	0	1
4	193	107	690	103	36	394	988	58	79	216	13	216	316
5	1	2	9	0	0	3	4	2	2	0	0	3	3
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7	0	1	14	1	0	1	4	0	0	0	0	2	0
8													
9	20	32	4	4	2	0	1	10	3	5	0	1	12
10	5	7	5	0	0	0	4	4	1	3	0	3	1
11	2	9	3	6	1	3	0	1	0	0	1	0	5
12	1	1	0	0	0	0	0	0	0	0	0	0	3
13	1	4	7	1	5	9	1	2	0	0	0	0	4
14	0	0	2	0	0	0	0	0	0	0	0	3	0
15	1	1	1	0	0	1	0	0	0	0	0	0	0
16	1	0	2	1	0	1	1	0	0	0	0	0	0
17													
18	12	10	5	5	8	20	3	2	0	3	0	1	3
19	0	3	3	1	0	0	0	2	0	0	0	0	6
20	1	1	2	4	0	0	0	0	0	2	0	0	0
21	4	23	5	0	0	3	0	0	0	1	0	0	0
22	0	0	0	0	0	1	0	0	0	0	0	0	1
23													
24	2	3	10	0	1	11	2	2	1	0	0	2	1
25	1	17	0	0	1	1	1	1	1	4	0	2	13
26	3	2	43	6	20	11	6	1	0	2	0	6	2
27	0	1	2	0	1	1	4	0	0	1	0	4	1
28	0	0	2	3	1	5	4	3	0	4	1	0	0
29	4	6	3	1	1	12	5	2	2	1	0	0	1
30													
31	10	34	39	15	29	73	7	4	0	10	0	6	9
32	6	26	22	9	13	58	7	2	0	3	1	4	5
33	3	0	80	2	29	8	1	0	0	1	0	0	0
34	1	2	2	2	0	5	1	0	0	0	0	0	1
35	0	5	7	9	2	31	2	0	0	0	0	1	1
36	5	6	7	7	2	13	2	3	0	1	0	3	0
37													
38	2	2	16	2	0	5	0	1	1	2	0	0	0
39	0	2	0	0	0	0	0	0	0	0	0	0	0
40	0	0	141	37	0	16	13	11	0	7	0	0	0
41	0	0	0	3	0	0	0	0	0	0	0	0	0
42	1	9	5	15	4	1	0	9	0	2	0	0	2
43	2	6	8	0	5	0	1	0	0	1	0	3	0
44													
45	0	1	0	2	2	0	0	0	0	0	0	0	0
46	0	14	22	21	2	13	3	6	2	3	3	1	1
47	0	4	14	1	0	6	3	3	0	2	0	0	1
48	2032	4264	3623	1795	992	5021	1699	1070	709	826	162	987	1554
49	0	4	10	3	0	2	7	1	0	1	2	2	0
50	1	0	0	4	0	0	0	0	0	1	0	2	0
51	3	10	0	7	4	3	3	1	0	15	0	2	3
52	5	5	0	3	6	1	0	1	0	2	0	0	1
53													
54	0	14	0	10	2	9	1	5	0	5	0	1	1
55	8	8	0	20	14	3	3	6	0	8	0	2	1
56	2	5	0	3	7	4	0	2	2	2	0	0	2
57	3	25	24	1	2	20	4	4	2	4	0	0	1
58	0	0	0	5	0	0	0	1	1	0	0	2	0
59	25	55	6	27	62	23	15	5	5	22	0	2	13
60	3	39	26	8	0	8	0	9	0	0	0	1	0

1													
2	2	1	0	4	2	0	0	0	0	1	0	3	0
3	4	2	0	4	3	0	0	0	0	1	0	0	2
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5	1	1	3	0	0	7	0	0	0	0	0	0	0
6	3	2	0	6	1	2	2	0	0	2	0	0	0
7													
8	407	382	323	378	340	986	214	102	84	287	1	83	190
9	2	5	1	3	6	4	2	0	0	1	0	0	1
10	51	90	5	141	59	52	13	16	6	98	0	6	10
11	758	1003	553	1188	1059	1584	307	172	52	838	5	183	314
12	1	0	0	0	0	1	0	0	0	0	0	0	0
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15	2	4	17	3	0	14	6	4	0	0	0	0	5
16	0	4	1	8	1	1	2	0	0	0	1	2	0
17	3	1	5	1	0	2	6	1	0	3	0	0	1
18													
19	20	48	41	32	14	57	17	11	10	5	2	4	22
20	2	2	3	2	1	6	2	3	1	1	0	0	0
21	7	14	4	3	0	7	3	3	0	1	0	2	3
22													
23	15	28	19	23	18	38	11	13	6	12	0	6	16
24	8	22	15	5	6	27	9	6	5	4	0	8	5
25	4	13	11	10	1	14	11	2	1	10	0	3	0
26	1	5	72	7	0	33	25	0	0	6	0	1	3
27	0	10	16	0	0	13	6	1	0	1	0	1	2
28	2	10	3	5	0	5	2	0	0	0	0	0	0
29	3	5	3	0	0	4	8	0	0	1	0	0	0
30	0	0	0	0	0	0	0	0	0	1	0	0	0
31													
32	0	0	18	1	0	4	3	0	0	0	0	0	0
33	0	0	0	1	0	1	2	0	0	0	0	2	0
34	14	33	0	0	0	0	26	48	38	17	19	0	1
35	0	3	0	0	0	0	2	2	1	1	0	0	3
36													
37	37	62	13	6	35	0	22	40	67	89	0	12	137
38	0	4	1	1	0	0	0	3	0	0	0	1	0
39	2	11	18	10	1	6	7	3	1	6	0	6	5
40	2	0	3	2	0	2	0	0	0	2	0	0	1
41	0	0	9	0	0	0	0	0	0	0	0	0	0
42	0	7	17	75	0	19	0	1	0	0	0	3	0
43	0	6	13	18	0	8	0	0	0	1	2	0	2
44													
45	289	238	262	456	232	139	269	204	443	359	203	353	233
46	2	0	3	3	2	1	3	0	2	2	0	5	2
47	0	0	0	0	0	0	0	0	0	2	2	2	0
48	2	7	41	0	1	8	6	1	2	34	6	3	4
49	24	16	155	4	1	56	19	5	8	132	12	6	22
50	0	10	48	6	0	12	4	0	1	3	0	0	0
51	1	1	0	1	0	2	0	0	0	2	0	0	0
52													
53	42	170	210	152	73	233	184	31	45	161	19	16	48
54	1	0	4	0	0	0	2	0	0	1	0	0	0
55	0	3	0	0	0	0	2	2	0	1	0	0	5
56	74	30	12	3	108	0	28	35	71	17	125	34	295
57	0	1	0	0	0	0	0	0	0	1	0	0	2
58	2	1	0	0	0	0	5	0	3	0	0	1	4
59	0	0	0	0	0	0	2	0	0	3	0	0	4
60	0	0	0	0	1	0	0	0	1	3	0	0	7

1													
2	60	213	42	34	49	6	116	49	820	479	15	251	1411
3	0	0	1	0	0	0	0	0	0	3	0	0	2
4	0	10	5	8	1	1	3	1	5	10	0	0	15
5	0	2	0	0	0	0	0	0	4	2	1	0	0
6	19	4	0	0	5	0	4	1	12	0	20	2	47
7	1	4	1	0	9	2	3	0	0	1	0	0	4
8	26	55	33	2	448	1	87	49	39	16	153	27	152
9	0	0	0	0	9	0	0	6	0	4	1	0	5
10	18	0	0	0	0	0	3	0	0	0	3	0	19
11	3	1	5	0	1	0	1	7	0	10	33	2	26
12	1	5	1	0	2	0	0	0	2	0	0	0	1
13	107	15	26	24	48	1	62	41	12	30	15	116	95
14	0	0	0	0	0	0	0	1	2	0	0	4	0
15	12	0	1	0	24	0	0	0	0	2	0	0	2
16	0	5	4	0	0	6	1	3	3	2	0	0	3
17	3	0	0	1	1	0	1	1	0	3	0	1	2
18	1	0	1	0	0	2	0	0	0	0	0	0	0
19	1	0	1	0	0	1	0	0	0	0	0	0	0
20	1	0	0	0	0	1	3	0	1	1	0	0	0
21	0	1	2	0	0	0	1	0	0	1	0	1	0
22	0	0	0	0	0	0	0	0	0	4	0	0	0
23	5	15	13	8	0	21	7	5	0	5	0	4	2
24	0	1	0	0	0	2	0	0	0	2	0	0	0
25	0	0	7	1	0	1	6	0	0	0	0	0	1
26	0	0	0	3	0	4	2	0	0	6	0	3	1
27	1	0	1	1	1	0	2	0	2	2	0	0	1
28	195	220	132	101	146	223	247	178	277	664	92	351	180
29	3	35	14	10	0	16	17	9	8	12	5	14	22
30	0	2	1	3	0	0	2	1	0	2	1	0	1
31	3	62	15	19	6	31	7	33	26	18	11	22	44
32	0	4	1	5	2	13	21	0	1	1	0	1	5
33	0	1	1	2	1	0	0	0	3	0	0	0	2
34	7	23	59	13	1	2	9	1	0	31	0	0	0
35	0	0	18	5	0	4	6	3	0	0	3	0	0
36	0	0	132	30	2	24	22	6	0	3	0	0	1
37	13	0	2139	709	42	403	1113	251	5	268	30	77	66
38	0	0	13	1	0	2	6	3	0	1	0	0	1
39	0	0	19	7	0	3	8	6	0	2	0	1	0
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41	9	3	13	6	8	15	169	10	42	4	24	26	2
42	0	0	0	0	0	0	3	1	0	0	1	1	0
43	46	18	0	2	36	1	14	1	22	8	11	3	22
44	0	0	11	1	1	1	2	1	0	0	0	0	5
45	0	0	6	2	0	3	6	0	1	0	0	1	1
46	1	0	4	1	0	0	1	1	1	0	0	0	0
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1													
2	51	5	1076	116	6	202	585	26	206	21	14	83	469
3	0	0	0	0	4	5	0	4	0	2	1	0	0
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5	151	7	22	2	7	1	66	27	92	8	9	7	87
6	3	1	155	3	28	3	23	9	0	1	20	23	15
7	11	6	3	1	0	1	2	0	1	10	4	0	2
8	31	10	13	5	3	4	1	2	0	31	44	0	54
9	32	22	6	12	1	1	4	0	4	28	17	0	86
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12	3	0	3	0	0	0	2	2	0	10	5	0	7
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15	1	0	2	2	0	0	0	0	0	0	0	0	0
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21	1	8	4	3	0	3	1	0	0	3	0	0	5
22	0	1	2	1	0	1	1	0	0	2	0	0	0
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24	4	0	2	1	0	0	0	0	1	0	1	0	0
25	410	476	72	8	83	52	44	48	139	79	7	27	95
26	1	4	0	0	0	0	0	0	0	0	0	0	0
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28	1	1	0	0	0	0	0	0	0	0	0	0	0
29	7	15	2	1	1	5	0	0	0	0	0	0	0
30	1	3	0	0	1	0	0	0	6	1	0	0	17
31	0	3	1	1	0	0	0	0	1	0	0	0	0
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33	19	0	2	0	1	0	0	0	2	0	0	0	0
34	7	0	0	0	0	0	1	0	4	0	1	1	0
35	278	12	2	15	10	5	36	3	40	53	3	2	2
36	8	0	0	0	0	0	14	15	4	8	3	0	0
37	17	69	53	8	22	31	61	13	22	138	93	133	98
38	163	14	8	3	9	3	26	2	12	43	1	1	0
39	0	3	1	0	0	1	1	0	0	0	1	2	0
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41	0	0	1	0	0	0	0	0	0	1	0	0	0
42	0	2	1	0	0	5	5	0	0	0	0	0	0
43	1	0	0	0	1	3	0	1	0	0	0	1	1
44	12	46	1	0	1	1	49	4	238	48	68	11	212
45	5	0	4	0	1	0	4	3	10	6	0	1	167
46	77	40	0	0	5	1	14	93	74	23	78	0	51
47	0	5	7	3	1	13	0	0	1	2	0	2	0
48	8	21	13	28	24	90	1	9	0	0	9	30	0
49	367	422	336	273	231	80	183	8	190	156	69	672	91
50	3	7	4	2	0	2	2	0	0	3	0	0	0
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52	32	2	0	0	1	0	76	10	81	9	1	18	143
53	84	27	155	1	42	6	827	3	121	5	0	189	308
54	0	0	0	0	0	0	0	0	0	324	0	0	0
55	0	0	0	0	0	0	0	0	0	457	0	0	0

1													
2	16	8	5	2	10	0	21	86	1	17	12	0	52
3	10	0	4	0	0	0	0	0	6	0	0	0	0
4	26	5	0	0	25	0	2	63	12	22	58	7	49
5	7	6	12	35	19	10	0	4	0	0	0	6	28
6	0	2	4	9	3	0	0	0	0	0	0	0	0
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8	0	2	3	3	0	0	0	0	0	0	1	1	0
9													
10	19	0	0	6	12	2	0	0	5	0	0	57	0
11	21	17	12	14	44	3	4	2	23	3	0	33	14
12	3	0	2	0	4	0	3	4	0	18	10	4	12
13	0	0	0	0	0	0	0	0	0	0	3	0	1
14													
15	96	58	21	51	107	9	27	40	31	105	22	106	7
16	0	0	0	1	2	0	0	1	1	0	2	1	19
17	12	4	1	1	89	1	0	4	6	7	4	16	2
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19	28	36	0	0	26	4	67	36	106	32	189	83	15
20	0	5	0	0	0	0	0	0	1	0	0	0	5
21	0	0	0	0	0	0	0	0	0	0	2	0	5
22													
23	52	9	31	0	32	0	2	49	49	12	107	84	55
24	2	25	0	16	38	0	1	22	23	17	32	40	10
25	68	43	14	62	247	0	16	76	66	33	123	280	39
26	0	0	3	6	0	0	0	2	0	0	0	0	0
27	0	5	1	8	1	3	0	1	0	2	2	0	0
28	0	3	4	9	1	1	0	1	0	2	1	0	0
29													
30	258	469	318	1486	1010	91	149	529	132	342	670	1227	147
31	1	1	1	3	0	0	0	1	0	1	2	5	0
32	2	0	1	3	0	0	1	1	0	1	3	1	0
33	4	2	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	1	1	0	0	0	0	0	0
35	13	11	0	34	0	0	0	0	13	0	25	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0
37													
38	11	5	0	250	14	0	0	0	22	1	8	0	0
39	4	1	0	0	3	0	5	0	1	2	1	3	1
40	0	1	2	0	2	0	0	0	0	0	0	0	0
41	0	5	35	3	0	4	0	0	0	0	0	0	7
42	46	178	3	0	27	22	241	7	9	0	0	6	10
43	0	2	0	0	0	0	0	0	0	0	0	0	0
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45													
46	1	8	0	0	0	0	0	19	3	1	52	54	0
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48	10	4	6	9	75	0	7	63	78	15	464	231	0
49	2	6	0	0	0	0	0	11	0	0	12	1	0
50	33	23	2	1	0	0	6	60	18	0	13	111	326
51	3	0	0	0	0	0	0	10	1	0	2	0	3
52													
53	35	3	0	0	5	0	0	113	8	7	15	0	56
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56	3	2	2	0	0	0	1	4	7	6	3	3	1
57	51	32	20	11	11	0	44	32	61	76	49	49	46
58	7	14	5	1	2	0	1	4	13	6	8	3	24
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60	3	2	1	0	0	0	3	1	0	1	3	0	0

1													
2	0	0	1	0	7	0	1	1	1	1	3	0	2
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5	3	6	1	6	3	0	6	5	13	22	7	7	5
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7	13	14	8	1	4	0	12	8	49	38	31	25	19
8	3	2	1	0	0	0	0	0	3	0	4	0	5
9													
10	48	67	9	23	16	10	2	54	9	15	34	44	77
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13	0	0	0	0	3	0	0	0	0	0	5	0	0
14	0	0	0	0	0	0	0	0	0	0	1	0	0
15	2	0	6	0	0	0	2	1	1	118	6	14	1
16													
17	106	63	24	12	159	0	90	301	398	128	851	274	211
18	0	0	1	0	1	0	0	2	0	0	3	0	0
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20	0	0	0	0	0	0	0	0	0	0	1	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0
22													
23	50	29	96	50	42	1	17	201	64	64	107	29	63
24	135	122	10	285	502	0	6	12	125	46	242	182	44
25	5	0	0	5	9	0	1	0	3	0	6	3	0
26	3	7	0	1	5	0	0	0	0	0	0	1	0
27	12	10	0	0	2	0	0	19	0	2	19	17	3
28	0	11	5	5	0	0	0	1	0	0	0	0	0
29													
30	164	266	78	610	50	15	45	232	95	186	129	71	221
31	6	1	1	5	0	0	1	0	1	9	1	2	6
32	0	5	0	9	2	0	0	0	0	1	0	0	0
33	16	35	7	61	13	5	4	95	11	24	32	4	2
34	116	350	114	306	146	13	66	217	91	79	95	119	181
35	1	15	4	10	4	0	6	13	3	2	4	2	6
36	5	0	0	7	3	0	0	4	31	8	7	17	0
37													
38	12	0	0	0	2	0	2	0	0	3	5	0	5
39	24	12	0	0	0	0	5	13	17	0	11	71	44
40	1	3	0	0	0	0	1	3	2	2	17	2	15
41	7	10	3	14	16	0	1	6	7	0	0	3	9
42	132	49	2	33	12	0	28	21	42	0	47	41	84
43	8	0	0	0	2	0	0	4	0	2	4	0	0
44													
45	0	3	0	0	0	0	0	0	5	17	28	0	2
46	143	20	8	31	30	0	14	117	63	27	508	57	144
47	0	0	0	0	0	0	0	0	0	1	6	0	0
48	450	31	1	1	255	0	27	78	189	0	0	190	22
49	16	0	0	0	12	0	0	1	7	0	0	8	0
50	38	0	4	7	10	0	9	24	41	9	46	18	22
51	17	13	17	17	1	3	8	12	3	15	5	2	17
52													
53	40	9	2	6	47	1	2	2	7	23	114	18	30
54	1	3	0	1	10	0	1	4	1	3	5	7	15
55	14	20	2	0	1	0	1	36	10	37	23	12	12
56	8	22	0	0	3	0	1	21	29	1	88	32	13
57	11	0	5	1	11	0	4	2	21	5	2	9	18
58	29	6	0	1	0	0	1	25	31	12	6	58	10
59	9	13	18	15	16	0	8	10	6	8	25	11	12
60	0	0	10	0	5	0	6	2	0	1	0	2	0

1													
2	0	0	13	0	0	0	12	4	20	5	1	0	0
3	0	0	0	0	1	0	0	0	2	1	1	1	0
4	1	3	0	0	7	0	6	7	16	45	14	4	0
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7	35	0	46	25	20	15	17	37	98	88	3	96	36
8	36	0	0	0	0	0	0	0	102	0	0	0	0
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15	0	7	5	0	0	0	139	0	0	4	0	3	2
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17	0	0	0	0	1	0	7	0	0	0	0	1	0
18	0	0	0	0	0	0	10	0	0	0	0	1	0
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21	0	0	2	0	0	2	0	0	0	0	0	0	0
22	0	0	4	0	0	2	0	0	0	0	0	0	0
23	0	0	3	0	0	0	0	0	0	0	0	0	0
24	0	0	2	0	0	0	0	0	0	0	0	0	0
25	1	48	562	5	27	230	66	13	17	9	26	2	16
26	0	0	0	0	0	2	0	0	0	0	1	0	0
27	0	2	17	0	0	1	0	0	0	0	2	0	1
28	19	6	0	13	2	0	0	2	0	32	7	0	81
29	4	0	0	0	0	0	0	0	0	1	3	0	0
30	0	2	0	0	0	0	0	0	1	0	0	0	4
31	0	0	0	0	0	0	0	0	0	0	0	0	2
32	1	0	2	4	0	100	1	0	2	1	2	0	5
33	9	10	6	5	1	152	12	2	18	13	13	4	35
34	17	7	12	6	56	0	27	0	4	0	15	3	0
35	9	12	0	3	8	0	8	5	0	3	3	1	0
36	10	0	95	18	22	0	0	3	4	10	1	2	56
37	0	5	2	9	14	9	2	3	8	20	2	17	0
38	2	7	3	23	4	4	0	3	6	1	0	4	3
39	7	2	7	2	32	4	16	29	34	16	10	20	22
40	0	1	3	3	18	0	0	10	9	1	5	8	1
41	1	0	4	5	0	2	0	1	0	6	0	1	0
42	4	2	0	9	22	0	0	1	8	0	57	12	40
43	2	1	0	0	6	0	0	0	0	0	1	0	0
44	2	11	0	0	32	0	0	26	0	3	164	0	0
45	0	0	0	0	0	0	1	0	0	9	0	0	0
46	5	0	0	0	2	0	0	0	0	0	6	0	27
47	2	26	0	9	26	0	1	0	0	0	30	0	194
48	233	1	0	0	0	0	0	0	3	0	6	2	0
49	12	22	56	8	10	0	14	25	5	78	35	2	26
50	45	28	3	44	4	0	104	18	45	416	14	7	306
51	15	95	0	5	61	0	6	29	25	12	4	2	33
52	0	0	0	0	0	0	0	0	0	5	0	0	0
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54	22	28	0	0	109	0	0	352	0	0	63	2	34

1													
2	36	3	0	0	8	0	0	1	0	0	171	1	76
3	0	0	0	0	0	0	0	0	0	5	0	0	0
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5	7	2	14	4	6	0	11	6	1	7	5	5	27
6	0	0	0	0	18	0	68	0	1	20	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0
8													
9	17	1	174	10	31	0	780	14	7	166	121	1095	37
10	0	0	0	0	0	0	0	7	0	7	0	8	0
11	0	21	0	5	8	5	9	3	3	7	6	4	4
12	11	7	0	2	13	0	9	6	8	4	3	0	9
13	3	2	0	0	0	0	2	0	3	0	6	0	0
14	0	0	0	0	0	0	1	0	0	0	0	0	0
15	0	10	22	2	22	11	9	32	48	70	32	96	52
16													
17	9	612	96	81	87	42	311	220	149	135	86	181	214
18	0	1	1	0	2	0	1	0	1	0	0	0	0
19	0	2	2	0	2	2	0	5	6	4	0	5	1
20	13	106	158	47	140	163	53	177	346	382	14	159	81
21	0	4	0	0	1	3	4	14	8	9	4	6	2
22													
23	0	0	1	0	0	1	0	2	0	2	1	0	0
24	0	0	53	1	11	1	0	0	15	0	0	4	0
25	5	179	37	30	50	5	101	84	56	91	24	70	77
26	0	1	0	0	7	0	1	1	8	0	2	1	4
27	0	0	0	0	2	0	0	0	0	0	0	0	0
28	0	0	0	0	1	0	4	0	0	0	0	0	0
29	0	1	0	0	12	0	0	8	1	0	10	0	1
30	0	0	0	0	0	0	0	0	0	0	0	0	0
31													
32	1	1	0	8	4	0	0	4	1	0	0	6	0
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34	0	3	1	2	8	0	0	11	7	1	0	0	0
35	0	12	0	0	0	0	0	0	7	2	0	6	0
36	0	6	0	0	0	0	1	0	4	4	0	1	2
37	0	0	0	1	0	0	0	0	0	0	0	5	0
38													
39	0	0	0	0	2	0	0	1	4	0	2	0	0
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41	1	0	0	0	0	0	8	2	0	0	2	0	0
42	2	0	0	0	16	0	5	11	44	1	100	29	32
43	0	0	0	19	0	0	0	0	0	8	0	0	0
44	4	5	0	4	2	0	0	27	4	1	1	12	1
45													
46	0	0	0	9	2	0	0	1	0	3	30	0	0
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48	1	3	2	19	10	0	1	12	16	2	5	13	4
49	2	2	1	8	8	0	1	12	32	0	3	15	5
50	13	19	2	3	17	0	4	66	43	7	13	50	5
51	18	9	5	9	30	0	6	34	92	13	25	78	9
52	0	0	0	1	0	0	0	2	4	0	2	0	0
53													
54	17	2	7	19	49	0	2	110	5	14	7	6	12
55	0	4	2	16	3	0	0	2	4	0	1	9	1
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57	0	7	2	10	48	0	0	35	30	2	15	58	7
58	1	0	0	0	0	0	0	0	14	0	0	0	0
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60	1	0	0	3	6	0	0	5	23	4	47	13	0

1													
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3	5	7	0	0	5	0	2	10	14	12	44	20	0
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7	2	0	1	6	14	0	2	214	180	12	282	237	2
8	0	0	0	9	2	0	0	0	0	0	0	2	2
9	1	1	0	2	4	0	0	19	29	3	46	18	0
10	0	0	0	0	20	0	0	5	9	2	12	51	0
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46	2	1	1	0	3	0	0	3	8	0	4	0	3
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49	14	1	1	2	11	0	0	19	1	0	0	0	2
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54	0	3	0	2	4	2	0	0	0	0	1	10	0
55	13	6	0	3	17	7	0	1	1	1	1	3	0
56	2	1	0	1	3	1	0	1	0	0	0	3	0
57	240	87	36	326	291	60	35	71	47	26	80	342	132
58	39	198	9	60	175	270	108	48	43	7	0	23	25
59	3	9	0	8	4	19	8	4	1	0	0	2	0
60	9	31	4	12	20	51	10	10	7	0	1	7	1

1													
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3	93	194	32	398	293	171	39	103	47	36	22	152	57
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8	0	14	2	11	5	28	9	1	0	0	0	0	0
9													
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11	200	157	382	32	4	49	249	3	196	242	0	142	21
12	17	0	1	0	0	1	86	21	20	120	13	28	0
13	4	0	3	0	0	7	2	0	1	8	0	0	0
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15	6	1	1	2	1	3	16	0	3	5	0	0	9
16	0	5	9	1	1	35	0	0	0	1	0	0	1
17													
18	202	18	23	19	30	51	529	6	31	193	0	9	297
19	172	64	54	45	102	67	388	12	85	96	1	19	529
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21	0	5	2	0	3	0	2	4	15	7	3	17	2
22	0	0	4	1	3	0	0	0	3	10	0	0	7
23	1	0	30	0	0	0	5	1	6	4	0	18	39
24	0	0	8	2	5	0	1	6	23	105	1	16	11
25	0	1	0	0	0	0	0	0	1	16	0	0	0
26	0	0	4	0	2	0	0	2	9	4	0	33	6
27													
28	56	34	21	3	12	39	42	36	76	38	6	10	143
29	7	14	4	0	10	1	1	17	6	6	2	0	17
30	2	0	11	3	8	0	1	21	3	8	0	10	0
31	5	0	15	0	3	4	5	8	0	0	0	2	9
32	6	5	4	0	14	6	17	53	6	6	12	6	11
33	1	2	0	0	8	0	0	10	12	14	6	3	1
34	1	0	3	1	0	0	8	3	0	2	6	0	0
35	1	5	0	0	6	0	0	5	6	1	1	3	0
36													
37	25	34	12	13	62	0	0	37	42	12	42	65	23
38	7	5	0	8	13	0	0	2	9	0	4	10	4
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41	1	2	0	1	0	1	5	6	0	10	1	0	0
42	0	7	2	8	23	0	1	12	7	34	20	8	1
43	2	10	0	0	4	0	1	0	6	1	0	7	5
44	0	2	0	0	4	0	0	7	4	0	0	2	0
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46	3	0	0	1	3	0	0	11	0	0	5	6	0
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49	10	6	2	0	0	0	15	9	3	12	13	1	6
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52	0	2	2	2	5	2	0	0	2	0	0	0	0
53	7	17	3	0	2	1	6	13	31	15	3	31	2
54	3	3	0	0	0	0	0	20	1	3	9	0	4
55	0	0	1	4	3	1	0	4	1	1	0	1	0
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57	0	0	5	0	1	0	0	0	0	2	0	0	0

1													
2	3	0	4	3	0	0	0	0	0	0	0	0	4
3	14	5	0	21	30	0	0	1	11	7	2	6	0
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5	14	35	0	12	3	0	0	2	35	2	0	18	4
6	0	0	0	5	0	0	0	0	0	2	0	0	0
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9													
10	49	34	35	42	18	32	9	20	45	13	7	5	63
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14	10	3	1	3	0	0	0	4	3	1	3	0	0
15	16	3	0	0	0	0	0	10	7	3	0	9	3
16	2	0	0	0	2	0	1	0	0	0	0	2	6
17	1	1	0	0	0	0	0	1	3	0	0	0	0
18	2	6	3	1	2	0	0	4	1	0	0	0	6
19	0	0	0	0	0	0	0	0	0	4	25	20	0
20													
21	10	0	0	0	7	0	0	0	52	0	0	16	3
22	10	8	3	0	4	0	0	12	18	0	0	0	4
23	0	0	6	2	0	0	0	0	0	0	0	0	0
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27	0	0	0	5	3	0	0	5	11	0	1	19	0
28	0	1	0	3	6	0	0	2	15	0	0	3	3
29	0	0	0	0	19	0	0	2	19	2	2	0	1
30													
31	32	0	0	0	0	0	1	71	14	0	25	28	25
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37	10	6	0	4	33	0	0	12	16	0	18	35	3
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39	1	2	0	0	0	0	1	6	1	12	3	1	2
40	38	21	7	52	65	0	2	91	50	20	10	29	25
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42	1	6	11	15	16	0	4	63	23	3	15	39	17
43	0	1	0	2	16	0	0	1	3	5	96	6	0
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45	45	13	8	0	38	0	1	13	105	1	0	24	16
46	0	0	0	21	0	0	0	0	0	0	0	0	0
47	3	4	0	0	3	0	0	12	15	1	11	20	5
48	57	65	40	73	78	7	7	37	44	22	15	124	40
49	4	2	2	4	18	0	0	3	2	0	6	11	4
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54	15	17	25	16	31	1	1	24	91	3	11	55	13
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56	1	2	0	1	0	0	1	2	5	0	2	5	2

1													
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3	0	0	0	0	0	0	0	0	0	0	49	0	0
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7	1	0	4	0	2	0	0	0	0	0	4	1	3
8	0	0	0	0	3	0	3	8	10	0	2	2	0
9													
10	16	2	1	0	12	0	2	10	54	2	6	8	11
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12	31	1	1	12	45	1	0	33	99	6	127	509	13
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15													
16	21	10	1	4	23	0	7	44	181	50	45	83	14
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18	7	0	0	0	5	0	6	82	46	71	95	35	0
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20	27	0	0	0	4	0	4	29	134	24	33	32	2
21	4	0	0	0	0	0	0	2	8	0	0	9	3
22													
23	28	0	1	0	0	0	15	46	16	0	0	101	51
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29	1	3	0	2	1	0	0	4	0	7	16	7	0
30													
31	6	24	3	36	27	0	3	85	83	19	48	211	24
32	19	29	7	27	21	3	18	172	98	17	27	186	28
33	8	1	0	0	0	0	0	2	14	0	0	21	0
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36	15	9	1	139	12	4	1	27	22	40	16	7	8
37	6	1	2	2	6	0	1	6	0	6	0	2	5
38													
39	7	5	9	3	5	1	4	5	10	1	3	17	3
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41	0	0	0	0	0	0	0	0	3	0	0	0	6
42	3	0	0	1	0	0	0	0	3	0	3	0	0
43	0	1	1	0	2	0	1	1	0	8	7	7	0
44													
45	9	2	7	2	10	1	3	11	9	30	36	20	4
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47	0	0	0	0	0	0	0	5	0	1	25	12	0
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53													
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57	3	3	0	5	4	1	1	5	8	0	0	5	3
58	0	2	0	1	0	0	0	0	0	0	0	0	0
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60	2	0	0	2	1	0	2	1	0	0	0	0	5

1													
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7	96	12	1	70	180	0	21	33	58	11	47	38	9
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9	90	79	55	210	43	0	10	163	84	35	103	68	100
10	0	1	2	6	0	0	0	2	0	0	2	0	0
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12	12	31	11	1	25	2	3	1	8	2	0	17	8
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14	95	75	35	13	74	5	52	41	51	46	12	146	116
15	22	40	20	10	53	5	19	10	51	32	18	34	39
16	16	17	11	10	25	2	11	10	30	20	14	21	37
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19	10	7	27	7	6	0	2	10	10	10	2	5	9
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23	10	19	7	10	17	2	6	20	14	7	20	9	13
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25	52	278	23	96	294	1	32	40	98	101	6	92	51
26	0	2	0	1	8	0	0	3	1	1	0	2	1
27	50	53	22	28	25	1	12	2	16	31	0	4	89
28	0	18	38	61	6	44	11	4	0	23	7	1	4
29	0	0	1	8	0	1	0	0	0	3	0	0	0
30	23	45	9	24	46	7	5	4	9	21	15	20	23
31	11	41	0	0	0	0	0	6	12	0	0	46	2
32	1	6	0	19	20	1	2	11	5	5	9	3	0
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34	15	23	10	64	28	0	0	35	60	6	11	3	12
35	0	2	1	8	1	0	0	1	1	0	1	1	1
36	62	51	2	43	24	1	7	18	60	22	88	118	26
37	3	3	7	1	0	3	7	4	0	4	1	5	18
38	0	0	1	0	0	1	0	0	0	0	4	1	4
39	22	5	3	2	6	0	0	90	36	3	26	50	12
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21													
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44	8	16	105	9	74	15	5	16	19	8	0	8	39
45													
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55													
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23	6	6	5	32	10	51	11	25	4	0	0	14	5
24	34	93	40	76	43	95	73	13	41	3	10	17	2
25	0	3	9	3	0	1	4	0	1	0	0	0	0
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28	128	1	49	10	98	7	89	95	10	64	14	11	51
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6	0	0	23	49	0	0	0	0	0	0	0	0	0
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13	10	0	2	87	0	2	1	0	0	0	0	1	0
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23	203	251	165	221	26	157	113	124	213	71	80	91	215
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38	109	26	2	66	0	152	98	5	379	15	118	32	32
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57	58	0	0	5	0	63	0	5	60	0	8	25	7
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22	15	0	0	2	0	0	0	0	0	0	0	0	0
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25	30	0	6	521	1	45	63	12	105	16	28	21	3
26	3	0	0	1	0	0	3	0	0	0	0	0	0
27	14	0	0	31	0	2	19	0	6	1	10	1	0
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33	17	0	0	21	0	0	32	0	1	0	11	11	0
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42	510	2	4233	3015	1766	587	1202	917	415	967	761	153	1809
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7													
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40	76	0	224	52	580	16	111	836	452	16	69	12	46
41	0	0	0	1	10	0	0	10	8	0	3	0	0
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44	12	0	8	29	1	0	3	9	4	9	4	0	40
45	1	0	4	11	4	1	5	12	1	88	7	0	16
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6	8	0	3	10	0	229	20	4	17	17	106	3	26
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8													
9	16	5	105	31	1	21	24	6	31	3	11	21	3
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11	117	0	0	0	0	5	0	0	0	3	21	0	0
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14	62	3	30	61	21	193	108	2	330	58	51	106	50
15	0	0	0	0	0	5	6	0	25	1	2	2	4
16													
17	10	1	0	0	0	67	4	6	0	0	4	46	1
18	0	0	0	3	4	0	8	9	2	12	1	0	2
19	0	0	3	1	3	0	5	13	18	1	2	4	0
20	0	0	1	1	9	0	1	0	4	10	0	0	2
21	0	0	0	0	1	0	2	2	30	0	0	0	10
22													
23	0	0	2	4	4	0	0	18	10	1	1	0	3
24	0	0	2	5	1	0	1	0	2	3	1	0	2
25	0	0	0	0	16	0	2	24	4	7	1	0	5
26	1	0	19	21	37	1	27	59	34	33	19	1	35
27	0	0	0	0	6	0	1	27	29	0	2	0	0
28	0	0	0	0	0	0	0	0	7	0	1	0	0
29	0	0	5	4	0	0	2	9	22	0	2	0	3
30	0	0	0	0	0	0	0	1	6	1	0	0	2
31													
32	37	41	324	288	290	5	128	387	947	118	150	57	284
33	6	0	5	35	63	1	18	33	20	28	18	11	12
34	0	0	0	3	10	0	1	4	0	1	1	2	2
35	6	0	6	39	108	3	18	67	26	55	44	7	19
36	1	0	20	3	2	2	7	4	5	6	2	1	3
37	1	0	0	1	5	0	1	5	0	0	2	0	1
38													
39	1	0	0	0	24	1	17	136	124	38	8	90	2
40	0	0	0	0	0	0	0	0	3	0	1	0	0
41	0	0	0	4	0	0	0	0	2	0	0	0	0
42	1	1	0	58	1	0	25	3	89	1	67	14	0
43	0	0	0	1	0	0	0	0	7	0	0	0	0
44													
45	0	0	0	2	0	0	0	0	3	0	1	0	0
46	0	0	0	1	0	0	0	0	2	0	0	0	0
47	112	119	1	8	1	0	39	179	0	1	20	7	186
48	6	3	0	0	0	0	3	6	0	0	2	0	6
49	0	161	2	33	54	9	5	33	21	8	65	3	62
50	0	0	0	0	0	5	3	2	2	0	1	0	2
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52	0	0	0	0	2	17	8	0	7	3	1	0	2
53													
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56	0	0	0	0	7	31	22	4	6	1	3	0	26
57	0	0	0	0	2	1	2	1	11	0	0	0	0
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59	0	0	0	0	0	0	0	0	9	0	0	0	0
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1													
2	5	111	14	2	84	1275	252	21	477	17	75	129	454
3	0	0	1	1	1	1	0	0	4	3	0	0	3
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5	1	208	13	7	2	0	15	0	9	0	270	0	18
6	0	0	1	63	0	19	11	0	109	1	5	4	0
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8	3	253	11	4	3	11	9	0	0	0	5	0	20
9	17	286	122	7	2	15	39	13	2	3	12	0	19
10	13	155	74	1	0	1	13	8	2	2	2	1	12
11	0	45	0	2	0	0	1	0	0	0	1	0	0
12	0	34	0	0	0	0	0	0	0	0	1	0	0
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14	247	1254	561	30	13	113	117	41	7	15	15	17	152
15	7	51	19	1	0	6	7	3	0	1	1	0	6
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17	1	14	2	1	0	0	3	1	0	0	1	0	3
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19	5	29	0	0	0	4	2	3	0	0	3	0	5
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21	0	1	0	1	0	0	4	3	0	0	1	2	0
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23	0	5	1	0	0	0	0	6	0	0	0	1	1
24	0	25	2	1	0	0	0	0	7	2	0	2	0
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26	75	285	147	267	1	58	9	0	891	371	20	150	0
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34	12	19	0	3	12	3	11	0	32	19	266	0	15
35	0	0	0	0	0	31	12	1	32	0	2	3	0
36	0	1	1	4	0	17	1	0	47	0	2	9	2
37	0	28	13	24	0	365	74	2	340	0	49	134	38
38	8	1	0	0	0	0	5	0	0	0	0	0	0
39	8	20	3	4	41	5	219	430	67	337	210	1	132
40	8	20	3	4	41	5	219	430	67	337	210	1	132
41	0	17	6	18	2	18	42	0	215	0	11	52	6
42	0	0	0	0	1	0	12	2	0	8	5	0	1
43	0	0	0	0	1	7	40	25	9	34	6	0	12
44	0	0	0	0	0	0	6	4	31	1	1	1	3
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46	0	0	0	1	1	1	0	2	0	1	1	0	1
47	0	0	0	1	1	1	0	2	0	1	1	0	1
48	20	6	16	95	2	20	173	0	400	9	37	83	4
49	1	0	2	3	0	0	4	1	0	0	0	20	0
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51	0	0	2	2	4	5	13	20	3	20	1	4	7
52	0	0	64	78	7	0	17	275	5	14	32	10	180
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54	5	0	56	42	130	188	118	12	108	363	35	40	17
55	0	0	0	1	1	2	5	0	3	8	0	1	0
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57	29	0	0	42	0	1	22	8	0	1	34	32	0
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1													
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7	0	0	2	1	7	1	1	1	0	18	1	0	3
8	0	0	0	6	0	1	2	0	1	2	2	0	2
9	0	0	75	0	0	64	14	37	0	60	1	0	4
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11	7	0	0	18	0	0	9	0	0	0	30	3	5
12	24	0	0	0	0	0	1	1	0	0	1	0	0
13	122	0	15	75	21	7	22	28	12	6	9	6	96
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16	0	0	0	8	5	0	3	0	2	10	33	0	0
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18	0	0	5	0	0	0	0	5	0	9	0	1	13
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22	7	2	33	4	0	1	32	0	1	294	9	39	0
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26	21	4	374	245	3042	140	340	400	242	114	127	364	585
27	0	0	0	5	4	0	0	1	0	0	2	1	2
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29	0	0	6	4	0	14	5	13	1	0	23	0	3
30	47	0	0	0	0	0	0	0	0	0	0	0	0
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37	0	0	0	34	0	80	21	8	360	1	3	3	0
38	0	0	0	0	0	0	0	0	0	0	2	0	0
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41	28	0	0	40	0	17	11	0	0	0	10	53	0
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43	0	0	0	13	5	102	8	0	0	11	5	852	1
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45	1	6	0	17	10	6	19	0	15	0	23	69	0
46	0	0	0	1	2	1	0	0	0	0	1	14	0
47	5	0	0	0	24	0	27	0	0	0	5	222	0
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51	22	49	3	81	1	25	48	1	86	2	16	10	4
52	4	61	19	21	0	21	14	0	38	37	12	0	0
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1													
2	3	2	0	4	0	0	1	3	1	0	173	0	3
3	2	0	0	1	0	1	0	0	0	0	142	0	1
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6	7	2	0	11	0	0	2	7	0	0	186	0	3
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8	0	19	0	7	0	2	1	0	3	0	1	0	0
9													
10	16	7	275	27	1	8	10	0	1	501	8	2	1
11	0	0	0	0	0	0	0	4	8	0	0	0	23
12	2	87	0	0	0	0	0	1	28	0	12	0	2
13	17	270	0	0	0	0	0	3	42	1	26	0	58
14	0	0	0	0	0	1	2	0	8	0	8	0	2
15	0	0	0	0	0	0	0	0	0	0	0	1	0
16													
17	32	13	22	8	43	0	149	12	43	2	317	42	0
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20	0	0	0	0	0	0	2	0	2	0	16	0	15
21	0	0	0	0	0	0	0	0	0	0	170	0	6
22													
23	50	0	5	55	37	35	25	32	7	45	12	104	11
24	227	1	5	18	4	0	64	0	42	24	54	55	17
25	14	0	0	0	0	0	2	0	0	0	2	2	0
26	0	0	0	0	0	0	2	0	8	0	1	0	0
27	11	0	0	0	5	5	2	0	1	11	2	8	2
28	0	0	1	0	2	0	7	7	1	2	0	0	2
29													
30	231	85	64	37	456	133	68	314	30	145	52	29	68
31	3	2	0	4	3	1	1	5	0	4	4	2	3
32	0	0	3	0	23	1	1	5	1	0	0	0	1
33	5	1	9	40	306	2	12	9	23	10	3	15	39
34	86	0	82	307	52	32	56	13	179	66	48	12	33
35	4	0	2	10	2	3	0	0	6	6	0	0	2
36	7	0	0	3	0	1	4	1	0	0	0	17	17
37													
38	115	49	0	5	5	306	2	11	1	7	2	0	4
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40	6	60	0	2	0	6	0	1	26	2	6	0	9
41	10	0	0	0	2	0	0	0	46	0	1	1	0
42	59	212	32	8	64	92	72	1	81	12	43	196	47
43	2	0	0	1	0	1	0	0	0	0	0	0	5
44	0	60	8	0	0	0	0	0	0	4	0	0	16
45													
46	112	60	1	120	0	53	32	3	39	4	26	13	24
47	22	4	0	0	0	0	0	0	0	0	0	0	0
48	4	0	19	4	373	142	17	46	1	132	0	235	0
49	0	0	1	0	16	5	1	5	0	11	1	7	0
50	33	0	3	11	10	112	8	26	9	14	2	1	27
51	2	3	3	5	3	7	19	2	42	7	4	7	4
52													
53	114	23	0	108	2	24	25	62	34	13	17	34	25
54	4	0	0	4	2	3	3	1	0	22	1	1	1
55	26	2	17	83	6	17	11	70	0	12	6	10	211
56	2	0	1	64	7	45	3	0	2	2	4	7	0
57	23	0	0	19	12	13	2	12	4	4	11	30	13
58	8	1	0	36	4	15	9	8	0	2	21	60	16
59	48	3	0	8	26	0	17	0	55	2	4	0	0
60	1	0	1	4	2	0	2	0	0	0	0	1	0

1													
2	0	0	0	5	0	0	1	3	4	0	1	0	0
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7	86	0	6	328	3	245	11	3	118	5	43	150	27
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16	0	2	0	8	0	0	3	0	5	7	0	0	0
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22	0	9	0	0	3	5	4	2	1	1	1	0	12
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27	199	642	27	33	1047	779	1187	298	259	254	298	1	3660
28	0	4	0	1	4	1	6	1	1	2	2	0	13
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30	10	0	544	58	0	42	15	0	2	0	5	0	2
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38	0	0	4	7	0	1	2	0	19	2	2	5	10
39	0	0	4	7	0	1	2	0	19	2	2	5	10
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41	15	0	7	7	6	0	2	4	5	0	8	4	12
42	2	0	0	4	0	0	0	2	0	0	0	0	0
43	40	0	12	27	9	12	9	1	0	5	2	7	0
44	16	0	0	0	2	1	5	0	4	7	4	15	3
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47	28	19	0	2	0	2	9	0	146	0	362	3	17
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51	0	0	0	2	0	4	2	0	0	0	4	1	10
52	4	0	0	0	0	0	48	0	5	0	5	0	0
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55	16	0	10	4	1	0	11	2	1	5	2	1	3
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57	23	0	7	32	3	20	8	2	1	0	5	35	3
58	0	0	0	0	0	0	0	0	0	0	0	18	0
59	0	0	0	0	0	0	8	0	0	0	1	172	0
60	17	0	0	12	2	0	2	0	1	0	7	0	0

1													
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4	0	0	0	129	0	0	16	0	3	0	4	671	0
5	8	0	0	8	0	2	10	0	6	1	8	0	5
6	0	0	0	7	79	0	19	0	0	0	0	0	0
7	1	0	0	0	0	0	28	0	1	0	56	0	0
8	9	0	10	164	20	6	217	0	12	36	53	180	141
9	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0
11	75	0	6	12	5	0	4	0	0	0	4	0	0
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13	0	0	0	3	1	0	2	3	0	0	0	3	0
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15	37	653	33	8	7	22	11	0	3	83	19	3	20
16	230	216	220	248	24	116	227	25	123	77	45	60	159
17	1	7	0	0	0	2	0	0	4	1	3	1	5
18	0	4	5	3	1	9	17	0	4	7	3	0	9
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20	160	458	319	71	50	268	476	28	333	43	93	29	350
21	2	25	8	2	1	3	7	0	4	3	0	0	6
22	0	2	0	0	1	2	2	0	2	0	1	0	1
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24	89	0	0	1	0	1	2	0	14	8	0	0	1
25	76	54	81	73	0	21	31	3	27	9	12	11	18
26	0	3258	0	0	3	5	3	0	2	0	0	0	2
27	0	83	0	1	0	0	0	0	0	0	1	0	0
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29	5	89	3	5	1	0	5	0	103	0	6	1	0
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31	0	96	0	0	0	0	3	0	3	0	1	0	0
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7													
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12	15	0	0	1	0	1	0	0	0	0	0	0	0
13													
14	159	0	0	21	0	7	2	0	1	0	1	14	0
15	0	1	0	0	0	15	1	0	0	0	0	156	0
16	16	56	0	21	0	247	46	0	1	0	7	3438	0
17	179	0	0	0	0	1	0	0	1	13	39	12	0
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19	38	0	0	8	0	14	4	2	0	1	2	1	0
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21	0	0	0	0	0	0	0	0	2	0	0	0	0
22													
23	54	0	2	6	99	3	11	29	0	37	23	50	42
24	394	1	0	0	3	12	12	1	0	0	1	195	37
25	9	2	2	4	1	0	1	1	1	1	3	0	0
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27	7	1	0	0	0	0	16	0	1	0	109	0	4
28	4	3	0	9	0	0	0	3	25	0	3	6	12
29	0	0	0	0	0	0	0	0	0	0	16	25	0
30													
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32	6	173	0	0	0	1	1	0	1	0	5	6	0
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35	22	0	0	5	6	0	1	0	2	0	0	4	2
36	4	169	0	3	0	0	4	0	0	0	0	0	10
37	0	0	0	1	0	1	1	0	0	0	2	0	0
38													
39	0	31	0	1	0	1	15	0	0	0	2	1	3
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47	1	29	6	0	0	0	0	0	0	0	0	0	0
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13	34	0	124	49	15	0	30	86	80	0	15	0	65
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37	0	0	0	5	1	0	1	0	6	0	0	0	1
38	41	0	4	1	1	6	4	3	0	3	1	15	0
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45	10	2	14	28	0	33	7	1	8	0	5	4	1
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23	4	0	0	2	1	5	3	0	0	0	3	3	0
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26	1	0	0	3	5	2	0	0	1	1	0	5	7
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28	7	0	0	36	1	3	5	0	272	0	1	10	0
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34	64	3	5	2	1	1	15	0	11	7	19	62	1
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37	144	3	7	2	12	4	18	2	37	43	5	29	2
38	18	0	0	4	1	1	0	0	0	0	0	2	0
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40	21	0	0	4	0	3	9	0	1	1	8	54	2
41	0	0	0	3	3	3	1	0	1	0	0	4	0
42	14	0	1	19	48	55	14	69	0	16	1	25	4
43	0	0	0	0	0	0	0	0	6	4	0	0	0
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45	38	0	14	57	270	25	43	51	19	57	11	162	40
46	10	0	1	3	11	1	4	0	3	3	1	5	1
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49	29	0	0	0	0	0	4	0	1	0	1	0	11
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25	0	0	0	0	0	3	0	0	0	0	0	0	0
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27	189	60	0	15	147	7	14	4	26	45	42	117	12
28	195	27	12	7	49	11	44	35	50	22	18	62	20
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45	26	1	1	4	0	6	0	0	5	0	0	11	10
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53	2	56	0	4	2	0	3	0	0	3	5	2	1

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24	58	1	10	10	45	19	11	0	0	10	6	67	15
25	160	0	34	120	20	9	125	236	34	10	20	4	55
26	7	0	2	1	1	1	2	3	0	0	0	2	0
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29	7	0	0	1	1	0	2	3	2	0	0	0	0
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32	80	0	2	4	6	2	6	7	1	1	8	0	68
33	106	17	39	44	31	80	67	114	133	10	176	152	150
34	281	0	13	40	120	3	12	6	34	75	8	2	3
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34	25	19	58	51	23	1	20	6	4	53	25	1	53
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26	10	27	2	0	5	1	0	11	0	5	1	2	25
27	0	19	1	0	3	1	25	3	2	108	10	4	25
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49	0	1	0	2	4	1	8	3	0	0	2	4	4
50	0	18	0	29	1	0	1	3	1	121	0	6	0
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22	25	169	67	79	125	83	79	78	35	250	16	59	61
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36	0	10	0	12	43	0	1	0	33	1	1	14	5
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38	22	68	177	73	150	91	41	34	384	42	9	57	238
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54	7	1	0	1	2	1	0	5	5	2	8	0	0
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58	41	59	0	0	4	72	71	44	20	259	43	16	125
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10	6	217	7	106	65	61	70	94	86	47	99	178	75
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25	40	208	0	5	7	200	100	193	24	154	24	10	301
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27	5	43	0	22	30	68	66	15	22	32	4	10	75
28	1	16	0	23	46	2	3	7	144	0	0	77	4
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30	10	127	1	111	227	51	121	47	470	61	15	374	150
31	0	23	0	0	0	4	18	9	2	53	0	1	43
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9	18	8	0	19	3	8	25	24	12	4	19	36	7
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24	16	3	0	0	0	7	22	26	1	3	10	1	1
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29	0	0	2	2	0	0	1	3	0	3	6	0	0
30													
31	51	9	0	0	0	1	3	10	0	3	17	1	3
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38													
39	17	0	38	0	7	6	7	11	13	2	1	3	2
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43	10	4	0	1	0	2	6	11	0	1	11	2	0
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57	33	6	2	0	0	1	4	15	0	0	15	1	1
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22	104	17	0	1	4	1	37	11	5	5	73	1	0
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32	42	68	8	60	0	194	24	41	58	41	12	34	31
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40	15	11	0	0	4	0	1	1	2	2	4	2	0
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43	55	10	0	7	0	6	9	9	2	6	109	0	16
44	45	11	0	0	0	0	20	33	1	1	32	0	0
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49	9	25	19	72	62	6	69	8	6	37	2	309	37
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47	263	141	1	39	40	325	167	190	22	150	211	208	35
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26	44	816	3	39	38	66	81	428	127	1296	168	115	248
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29													
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35	4	5	2	0	3	5	2	3	4	5	3	1	3
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42	11	79	35	36	124	40	36	90	120	464	44	41	33
43	0	0	0	0	0	2	0	0	0	10	0	0	0
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26	13	6	89	26	21	0	0	0	5	1	3	2	8
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19	170	164	42	66	65	133	422	329	16	86	47	199	133
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9													
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30	7	51	0	20	55	10	6	18	10	5	9	29	25
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34	21	73	2	2	1	0	1	113	0	93	23	4	7
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40	0	1	0	3	0	2	0	3	0	0	1	0	4
41	0	1	0	2	2	3	0	2	0	0	0	18	0
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43	21	15	3	57	2	76	0	8	17	72	7	12	9
44	0	6	0	0	0	21	0	0	0	0	0	0	0
45	10	61	5	3	0	5	9	37	37	85	16	2	8
46	0	11	0	0	0	4	0	1	1	2	6	0	9
47	2	1	0	6	0	0	19	0	15	9	3	1	0
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49	0	8	0	0	0	0	8	0	0	43	0	0	3
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53	0	0	16	3	4	0	1	1	20	0	0	2	0

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14	65	13	22	0	10	59	21	33	51	67	0	35	0
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53	3	0	0	1	0	3	3	8	0	0	0	3	1

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9													
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56	5	41	2	0	4	1	88	90	0	22	3	0	14
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26	0	1	0	0	0	0	0	0	0	0	0	3	0
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47													
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9	3	6	0	2	4	12	0	46	1	1	1	8	39
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19	1	0	1	5	0	3	2	2	0	4	2	0	0
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25	2	0	0	0	5	6	0	0	0	0	3	6	2
26	30	0	0	0	99	17	5	14	0	1	26	110	37
27	4	4	3	0	0	2	3	1	0	114	2	4	0
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29	90	106	63	32	13	178	14	35	19	1	3	30	37
30	141	262	106	62	29	223	31	67	22	3	5	50	78
31	9	0	0	56	0	50	190	18	3	119	11	0	45
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34	9	8	3	4	7	5	4	4	2	0	2	2	4
35	4	32	1	3	65	1	9	1	2	17	3	0	1
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41	1	0	0	0	0	0	2	0	23	10	1	1	0
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44	0	17	0	1	2	3	1	7	0	2	1	5	0
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49	2	0	0	1	0	0	6	1	0	4	3	5	0
50	11	103	6	1	2	35	0	15	11	141	25	7	22
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52	7	24	6	1	0	53	1	49	0	0	0	1	0
53	7	14	2	0	0	28	0	28	0	0	0	0	0
54	41	9	18	49	6	215	50	161	4	215	1	0	0
55	22	51	0	6	337	3	4	12	83	7	23	7	28

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45	5	67	0	8	6	0	15	4	12	0	14	5	29
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13	133	2	567	19	271	701	24	1461	527	536	841	30	17
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28	0	8	0	0	63	0	0	0	2	0	12	41	1
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33	128	338	49	51	73	29	105	37	3	37	250	18	43
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36	51	11	31	61	4	3	127	24	0	76	29	7	17
37	11	18	3	12	11	3	11	0	3	0	25	2	6
38	9	10	0	15	0	3	23	4	1	40	90	0	17
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42	1	0	0	0	18	0	21	1	0	0	1	0	63
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48	44	10	2	11	1	0	0	31	11	7	18	60	26
49	1	0	0	0	1	0	0	0	1	0	2	3	1
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51	22	2	25	29	61	50	35	59	82	31	12	39	164
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53	0	0	1	16	0	6	0	0	0	0	0	0	0

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5	15	1	20	39	29	36	26	32	12	22	18	20	73
6	4	8	0	4	3	0	0	1	0	0	2	0	0
7	64	169	5	22	59	10	11	31	1	4	70	0	13
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9	49	23	62	10	44	45	38	31	0	141	21	57	65
10	269	243	495	107	175	238	115	149	4	680	46	159	167
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18	36	131	246	34	131	16	31	27	616	10	12	157	56
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25	99	3	25	44	58	139	40	113	29	173	20	26	235
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27	31	80	12	43	16	9	3	6	0	52	164	0	25
28	15	6	0	1	0	2	20	4	0	6	7	0	1
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31	9	0	3	0	2	1	12	6	0	15	5	0	1
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33	36	0	3	13	0	5	8	11	3	33	10	1	61
34	33	6	11	32	46	0	65	21	1	83	81	9	85
35	11	39	4	5	35	1	14	12	5	5	20	106	38
36	16	2	41	7	8	2	6	11	0	11	372	4	32
37	0	0	0	4	0	0	0	1	0	0	0	2	0
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40	14	88	21	59	274	22	51	53	72	0	11	90	145
41	5	0	0	0	0	0	0	0	0	0	0	1	0
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53	4	0	0	1	6	0	3	6	1	1	0	0	0

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16	4	0	0	3	2	0	0	0	0	0	0	3	0
17													
18	16	0	0	10	3	3	2	5	6	3	0	13	0
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23													
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28	1	0	0	0	4	0	1	2	0	1	0	5	4
29	0	0	0	0	3	2	0	0	0	0	0	2	0
30													
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37	0	0	0	0	0	2	1	0	0	1	0	1	0
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41	1	0	0	1	0	2	0	2	0	0	0	1	0
42	5	1	2	9	5	1	0	12	1	2	0	11	1
43	4	0	0	5	5	0	1	0	1	0	0	2	0
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48	848	109	32	283	1553	251	52	671	1645	118	134	2469	1516
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53													
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57	10	2	1	6	1	0	1	1	2	0	0	7	1
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60	1	0	0	0	0	0	0	1	3	0	0	3	1

1													
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7	170	9	20	113	126	59	14	131	986	32	24	426	56
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10	306	50	51	161	246	49	27	229	2020	42	49	1167	121
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17	12	1	2	13	24	4	2	14	20	2	3	28	10
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21	2	2	2	4	7	0	0	3	12	1	0	6	3
22	21	0	0	40	6	0	0	23	3	1	2	5	1
23	20	2	0	8	9	3	2	12	4	1	3	3	0
24	2	0	0	1	2	2	0	8	2	1	2	14	2
25	4	0	0	0	1	0	0	1	1	0	0	1	0
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30	1	10	0	3	0	0	5	0	0	30	0	0	8
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32	59	88	9	64	108	9	35	33	12	42	1	48	20
33	8	2	0	1	2	2	0	7	0	0	0	2	1
34	14	0	0	53	12	0	0	11	14	0	4	9	1
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37	0	5	0	0	43	0	0	2	39	0	0	0	0
38	0	1	1	2	9	0	0	1	11	0	0	0	0
39	108	37	88	921	592	93	1	238	1069	3	29	146	229
40	0	0	1	16	1	0	1	7	1	0	1	0	1
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43	10	1	0	10	52	2	6	3	42	3	2	18	17
44	7	2	0	4	3	0	0	6	4	0	3	25	0
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46	54	33	10	19	335	15	10	40	121	28	7	207	29
47	0	0	0	0	0	0	0	1	0	1	0	0	0
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49	17	98	52	9	22	26	40	8	0	15	41	78	44
50	1	7	15	1	0	0	3	2	0	0	0	0	0
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1													
2	76	1698	666	313	303	128	114	58	398	150	28	1043	237
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8	39	276	573	5	146	108	74	25	7	17	4	15	37
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26	312	598	562	496	541	1542	85	3403	1052	474	121	384	978
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23	85	124	43	66	268	39	76	140	52	60	36	4	52
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34	13	34	2	57	100	47	3	427	110	21	68	18	25
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36	19	86	62	3	16	135	103	268	9	215	43	67	58
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46	0	38	0	2	3	6	2	6	8	2	4	102	13
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23													
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21	69	38	4	92	52	15	5	60	34	25	20	26	28
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35	12	19	37	3	2	0	49	36	0	25	33	64	122
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45													
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47													
48													
49													
50													
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59													
60													

	T1-548	T1-558	T1-557	T1-547	T1-560	T1-561	T1-555	T1-530	T1-614	T1-644	T1-638	T1-608	T1-617
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2													
3													
4													
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46	0	22	1	1	2	3	0	1	8	1	4	0	3
47	0	0	0	0	1	0	0	1	0	3	3	1	1
48	0	0	1	2	2	7	0	0	0	0	12	0	99
49	0	0	1	1	0	2	0	0	0	0	21	0	139
50	0	0	1	1	1	13	0	0	0	0	19	0	205
51	0	0	0	3	1	4	0	0	10	0	4	0	9
52	57	14	209	9	8	10	39	23	0	1	72	16	6
53	1	1	4	0	0	0	0	0	0	0	1	0	4
54	0	0	0	18	41	1	0	0	0	0	0	2	0
55	0	0	0	4	10	0	0	0	0	0	0	1	0
56	4	0	3	3	1	0	0	1	2	1	0	0	0
57	4	0	3	3	1	0	0	1	2	1	0	0	0
58	256	4	0	187	1	1	0	1	7	111	8	0	7
59													
60													

1													
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3	0	0	3	5	2	3	0	1	6	0	2	0	2
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6	0	2	1	0	0	0	0	0	1	0	1	0	15
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8	0	0	0	0	0	0	0	0	0	0	1	0	0
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15	0	0	0	0	0	1	0	0	0	0	6	0	0
16	11	1	0	0	0	0	8	0	3	2	0	2	4
17	5	1	0	0	0	0	0	0	12	0	2	1	0
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19	0	0	0	0	0	0	0	0	9	0	0	3	0
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24	0	1	17	17	0	4	7	17	5	10	56	15	37
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35	1	0	0	0	0	0	0	0	5	0	0	0	0
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37	1	5	0	0	0	0	26	1	0	7	2	0	2
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43	0	0	0	0	0	5	0	0	0	0	1	16	70
44	26	45	0	37	62	36	4	186	7	3	14	1	4
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53	0	0	0	0	7	0	0	0	0	0	1	0	0

1													
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15	16	49	0	5	9	2	15	1	46	56	0	1	1
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23	377	294	162	333	189	235	622	206	181	41	221	209	133
24	0	3	0	1	1	3	0	1	1	0	0	0	2
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35	0	3	5	0	0	12	0	0	0	0	0	0	0
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37	2	24	128	59	290	487	0	105	71	9	91	8	214
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39	0	0	0	0	7	6	0	2	0	0	0	0	4
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41	0	1	14	1	27	307	0	13	0	0	16	0	26
42	7	3	25	1	23	18	0	25	14	1	0	4	12
43	22	0	147	0	1	333	0	1	12	0	1	4	0
44	2	1	5	34	4	7	1	3	6	1	1	6	4
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47	1	6	5	0	0	2	0	1	2	3	0	0	6
48	0	0	0	0	0	0	0	0	0	0	7	0	111
49	0	0	0	0	0	0	0	18	0	2	3	0	0
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51	12	3	57	0	1	0	2	10	27	1	420	6	12
52	0	0	0	7	0	9	0	17	0	0	0	0	13
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55	36	33	7	8	58	9	15	50	101	32	0	21	16
56	1	2	0	0	1	1	0	3	5	0	0	0	1
57	0	23	28	4	70	51	0	22	0	9	0	3	26
58	56	133	165	18	7	41	0	71	61	69	16	30	173
59	0	0	0	0	0	0	0	0	0	1	9	1	2
60	1	4	1	0	0	0	0	0	0	1	0	2	3

1													
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5	7	87	109	13	2	36	0	33	51	44	8	14	85
6	0	0	8	0	0	1	0	1	0	0	1	0	8
7	0	39	450	22	6	68	0	109	0	1	216	0	304
8	0	0	6	0	0	0	0	1	0	0	1	0	3
9													
10	2	35	69	16	14	24	1	0	2	3	38	10	129
11	25	155	209	47	101	59	14	7	7	15	272	73	591
12	0	4	6	3	0	0	0	0	0	1	1	3	8
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15	0	1	3	0	0	0	0	0	0	0	1	3	2
16													
17	1	1	2	0	1	0	0	0	0	0	0	1	1
18	1	10	5	0	0	2	1	1	2	2	2	1	4
19	8	8	24	6	3	2	9	26	11	6	12	6	14
20	79	264	711	112	66	23	198	177	158	178	173	127	164
21	1	10	14	0	0	3	0	0	0	1	3	5	5
22													
23	0	7	5	2	0	0	0	3	0	8	0	0	1
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25	0	0	0	0	0	0	0	0	0	1	4	0	11
26	0	4	49	1	3	1	21	553	1	8	4	240	0
27	0	32	94	10	0	5	14	49	230	317	91	17	312
28	45	170	279	25	7	51	4	82	104	165	103	54	552
29	2	5	0	0	2	2	0	6	4	1	0	0	14
30													
31	0	65	37	62	24	41	0	9	1	1	99	0	149
32	0	1	3	0	22	3	0	1	0	0	15	0	19
33	0	1	1	1	3	0	0	0	0	0	0	0	3
34	1	93	102	42	95	30	19	6	4	25	78	1	163
35	0	0	0	1	0	0	0	5	0	1	9	1	46
36	60	272	63	116	85	30	8	94	117	46	10	20	130
37	0	29	3	23	2	3	2	90	0	24	17	21	87
38													
39	0	11	37	44	103	24	1	2	9	201	0	9	170
40	0	115	27	90	5	48	1	12	3	52	8	1	34
41	0	1	1	348	225	249	0	422	0	4	31	0	230
42	3	0	0	0	0	0	2	1	0	0	0	0	0
43	13	0	0	0	0	0	6	0	0	9	0	3	0
44													
45	9	6	0	0	0	1	0	4	0	2	0	5	1
46	106	71	25	53	32	238	121	96	62	165	26	147	20
47	0	0	0	0	0	0	0	0	0	0	0	0	0
48	33	3	34	69	48	12	13	7	13	48	26	8	15
49	0	0	0	0	0	0	0	0	0	0	0	2	0
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51	0	0	0	0	0	0	0	0	1	0	0	0	0
52													
53	31	9	9	0	0	0	285	82	37	86	154	66	2
54	3	0	0	0	0	0	1	1	1	3	0	1	0
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56	3	0	1	0	0	0	0	1	1	0	3	1	0
57	0	0	0	0	0	0	0	0	0	0	0	6	2
58	1	0	0	0	0	0	0	2	0	0	0	3	0
59	34	1	0	2	0	0	0	1	7	8	0	46	5
60	1	0	0	0	0	0	0	0	0	0	0	1	1

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2	4	3	0	0	2	0	0	0	0	1	0	9	0
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4	451	72	50	96	12	73	24	411	672	153	88	1048	203
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6	5	0	0	0	0	4	2	13	12	3	2	13	8
7	2	1	0	0	0	0	0	0	0	0	0	0	0
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9	1	6	4	0	0	0	0	0	0	4	2	1	0
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18	0	0	2	0	0	0	0	0	0	3	0	4	0
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21	12	0	0	0	0	0	1	0	1	0	0	1	0
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23	3	7	15	1	0	0	4	3	0	0	0	2	6
24	1	5	1	0	0	1	5	11	1	12	1	0	6
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26	0	2	1	1	0	0	0	7	1	9	0	0	0
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28	2	5	1	3	3	3	3	4	4	11	1	6	5
29	5	3	2	3	5	4	4	5	3	16	0	8	3
30	1	0	0	0	0	0	2	2	2	3	0	2	0
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35	0	1	8	2	0	0	0	0	0	0	0	0	6
36	0	1	1	0	0	0	2	2	5	26	0	15	1
37	0	1	0	0	0	0	2	0	3	0	0	0	0
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39	0	0	0	0	1	0	0	0	0	3	0	2	0
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41	10	9	0	1	2	0	4	2	1	14	0	13	2
42	1	13	0	1	0	0	4	0	3	84	0	4	1
43	1322	1212	1489	502	150	30	999	1065	1897	2797	513	1359	800
44	0	0	1	1	0	0	0	0	1	0	0	0	0
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47	7	1	0	0	0	0	1	0	0	0	0	4	5
48	0	1	0	0	0	0	6	2	5	0	0	4	1
49	17	1	0	0	0	0	22	10	8	2	0	9	2
50	10	1	1	0	0	0	5	16	3	1	0	0	4
51	1	1	0	0	1	0	3	5	5	2	0	2	0
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53	44	12	0	0	0	0	65	38	37	21	0	19	17
54	0	6	0	1	2	0	0	12	13	7	2	7	0

1													
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6	1	0	0	0	0	0	4	2	2	0	0	1	0
7													
8	720	126	64	32	21	4	905	297	404	223	58	303	100
9	6	1	0	0	0	0	7	6	6	0	2	0	1
10	92	8	2	0	0	1	248	45	54	38	6	65	10
11	1053	159	107	48	28	36	1894	429	781	456	54	572	245
12	0	0	0	0	0	0	3	0	0	1	0	1	0
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15	5	7	0	0	1	0	1	7	1	2	2	0	3
16	2	5	0	0	0	0	3	0	0	0	0	0	0
17	0	2	2	2	0	0	0	0	4	0	0	3	2
18													
19	17	16	12	8	2	0	30	10	21	29	4	20	8
20	1	0	0	0	0	0	0	1	4	5	0	2	0
21	3	0	0	1	0	0	1	5	3	4	1	4	2
22													
23	28	8	11	3	0	1	18	16	21	33	1	18	7
24	10	4	9	2	1	0	11	0	6	11	5	8	5
25	0	19	4	1	0	0	1	5	0	10	0	3	0
26	8	3	3	0	0	2	1	4	4	6	0	27	3
27	4	2	2	0	0	0	0	1	0	0	0	4	2
28	1	0	0	0	0	0	0	0	5	4	0	0	1
29	1	3	1	0	0	0	0	3	0	2	0	0	0
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31	0	0	1	0	0	0	0	1	1	4	0	0	0
32	0	0	0	0	0	0	1	1	2	1	0	1	0
33	0	0	6	13	0	0	0	0	0	115	37	0	9
34	1	0	4	0	0	0	0	1	1	1	0	0	2
35													
36	49	18	267	27	34	36	11	37	38	26	16	1	65
37	1	0	2	0	0	0	0	0	3	0	0	0	2
38	8	8	0	1	1	0	0	4	0	6	0	8	1
39	1	0	0	0	0	0	0	1	0	1	0	5	0
40	0	0	0	0	0	0	0	1	0	0	0	0	0
41													
42	73	0	0	0	9	0	60	0	28	47	0	27	0
43	28	1	1	0	3	0	14	1	2	16	2	10	1
44													
45	83	415	100	188	585	12	664	355	158	325	211	727	159
46	0	0	0	1	4	0	2	0	0	3	1	2	1
47	0	2	0	0	0	0	0	0	0	2	0	2	0
48	6	4	8	4	2	18	1	4	5	6	0	18	18
49	6	7	25	14	9	27	9	30	23	25	1	52	45
50	10	2	1	0	1	0	0	2	1	6	1	6	0
51	2	0	0	2	1	0	0	1	0	0	0	2	0
52													
53	337	90	107	35	42	5	20	316	108	110	35	193	32
54	3	2	1	1	0	0	0	0	0	1	0	0	0
55	2	0	0	0	0	0	0	0	0	0	0	0	5
56	25	6	91	41	21	219	0	15	31	2	12	23	363
57	1	4	2	0	0	0	0	0	0	0	0	0	6
58	1	7	4	0	0	0	0	0	0	0	0	1	4
59	0	3	1	0	0	0	0	0	0	0	0	3	1
60	0	3	5	0	0	0	0	0	0	0	0	1	3

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2	154	479	930	123	75	123	859	271	106	45	473	225	386
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6	5	3	3	8	18	10	1	4	0	6	21	8	22
7	14	3	1	0	0	0	1	0	0	0	0	2	1
8	266	66	88	22	41	59	38	54	67	21	61	33	154
9	0	6	0	0	0	1	1	1	0	0	0	0	9
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11	2	1	103	4	29	28	1	2	7	0	14	0	49
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14	25	80	76	139	65	279	37	12	44	42	12	22	46
15	0	1	1	1	0	2	0	0	0	1	0	0	0
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22	0	0	0	0	0	0	0	0	2	1	0	6	0
23	1	0	0	0	0	0	0	0	0	0	0	1	0
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25	13	13	0	4	0	0	1	4	3	6	0	8	3
26	0	2	0	0	0	0	0	2	0	0	0	2	0
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32	27	16	10	22	3	1	18	14	26	12	8	24	11
33	6	3	1	1	0	0	3	2	8	1	0	2	0
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48	50	0	26	0	17	12	0	45	14	0	25	86	16
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6	0	0	173	0	40	11	0	5	85	1	3	76	50
7	15	5	9	0	0	2	2	0	15	0	1	0	0
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24	419	0	28	4	411	20	0	1443	44	124	341	1031	131
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34	65	55	4	6	0	3	0	501	5	12	43	14	22
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36	78	100	97	222	50	141	105	294	139	98	6	65	102
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43	19	4	1513	193	405	91	0	44	96	8	26	42	312
44	0	1	0	112	25	0	0	14	0	0	0	0	18
45	0	15	94	98	0	3	2	11	0	0	41	0	19
46	0	1	2	0	0	0	1	1	1	1	0	5	1
47	18	0	0	13	0	0	10	6	202	21	2	15	2
48	41	66	383	187	288	136	215	300	571	113	280	281	352
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52	6	3	6	45	124	127	19	154	0	88	95	33	153
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17	0	94	174	68	46	127	12	59	3	8	200	27	1
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22	0	72	81	107	17	47	6	15	124	3	90	43	111
23	2	1	0	0	0	0	8	0	1	0	0	0	0
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26	564	861	342	628	110	474	3508	1068	685	130	727	801	232
27	0	1	2	3	0	1	12	4	1	0	2	0	1
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29	0	0	0	0	0	0	0	13	0	0	4	0	0
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38	0	46	0	1	1	6	0	13	0	1057	11	48	40
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41	0	1	0	1	121	2	0	0	1	20	14	1	1
42	19	255	38	0	2285	317	8	2	2	2	369	172	1
43	0	21	13	7	0	1	23	26	17	35	174	32	0
44	0	0	0	0	34	8	0	0	0	0	2	0	0
45	8	29	21	13	13	120	4	4	2	13	28	6	172
46	0	0	6	0	0	3	0	0	0	0	2	0	15
47	29	1	85	36	10	7	1	0	0	6	26	6	112
48	0	5	1	0	0	131	0	0	0	0	0	0	0
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51	2	46	145	95	176	100	4	45	8	35	75	69	86
52	65	3	9	13	32	22	10	9	155	4	9	9	32
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54	0	1	4	1	7	3	0	1	2	0	2	1	5

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9	168	39	68	27	5	20	58	17	72	50	62	28	47
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20	51	44	101	233	100	78	38	55	122	21	118	78	97
21	196	19	501	324	0	159	171	33	106	20	107	81	45
22	2	1	10	8	0	2	3	0	8	0	2	1	1
23	5	0	7	0	0	1	2	1	0	0	1	2	0
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26	378	252	305	348	309	173	260	53	337	88	119	251	73
27	2	1	18	8	22	4	1	3	8	1	4	10	5
28	5	5	1	0	0	0	4	0	0	0	1	0	0
29	46	22	3	33	11	69	363	4	74	8	20	23	10
30	266	125	102	114	51	195	59	92	260	85	192	91	154
31	9	4	4	2	1	4	7	2	7	6	6	4	3
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34	0	21	7	11	16	145	0	0	16	17	21	6	129
35	20	3	0	7	59	22	0	0	26	17	0	3	14
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37	40	34	112	27	40	154	4	17	180	92	42	63	104
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39	416	281	3	0	125	129	11	56	325	8	0	3	0
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41	0	0	0	0	0	0	0	15	2	16	0	0	3
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43	0	2	0	6	2	1	0	1	0	2	31	11	0
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45	25	32	11	11	15	52	5	13	26	11	19	22	6
46	4	19	47	34	80	80	17	1	1	0	43	27	27
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53	2	3	0	2	0	2	0	0	1	6	0	0	4

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3	0	0	0	0	0	14	0	0	0	0	0	0	0
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27	145	40	44	62	535	17	5	38	22	54	2	16	35
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30	20	35	16	4	0	14	0	0	21	1	16	0	19
31	1	1	13	0	2	8	2	0	0	0	2	0	0
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35	17	30	8	2	19	4	9	49	41	50	2	11	31
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39	7	14	4	0	4	0	31	2	4	4	11	9	0
40	3	8	3	0	0	0	2	0	0	3	1	14	3
41	0	22	0	32	14	0	0	3	42	17	56	2	29
42	3	25	2	3	3	7	29	0	0	1	13	4	2
43	0	1	2	0	0	1	8	0	0	9	0	0	0
44	459	8	4	10	12	21	79	0	34	93	6	12	9
45	0	0	0	0	0	4	0	1	144	12	9	0	0
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47	0	6	10	0	0	0	0	0	0	0	17	0	0
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49	11	0	8	1	0	0	0	2	18	0	0	0	145
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52	9	7	76	6	19	1	12	6	5	0	70	59	15
53	0	19	10	34	1	7	1	4	0	0	6	2	71
54	0	4	0	0	0	11	0	0	0	0	0	0	0
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56	2	30	89	0	3	0	0	0	95	12	28	0	0

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26	0	0	4	5	3	2	1	4	0	0	1	0	0
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28	140	40	15	2	0	20	149	41	34	33	5	34	2
29	4	0	0	3	5	9	2	4	4	1	0	0	0
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31	0	6	0	5	0	0	0	0	0	0	59	51	0
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33	302	155	94	431	196	79	42	324	416	330	204	72	175
34	186	222	18	23	68	9	112	19	31	3	28	30	23
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36	25	35	22	188	64	20	30	1	4	60	250	80	16
37	7	6	9	6	7	7	2	35	12	9	6	22	10
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42	9	9	11	0	11	0	28	15	15	7	12	26	6
43	458	458	811	165	175	57	1	113	152	0	61	15	152
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45	78	39	39	65	21	44	69	31	33	11	51	11	8
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9													
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16	2	3	3	3	0	1	2	0	1	0	3	2	2
17	1	1	0	2	2	1	0	0	5	3	22	0	8
18													
19	67	0	0	5	11	0	8	5	34	68	0	33	0
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24													
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52	1	1	3	3	1	0	0	0	1	0	2	13	1
53													
54	93	20	87	50	43	37	0	18	19	1	27	161	43
55	1	2	8	3	3	1	0	2	0	1	0	1	2
56	6	1	7	2	4	2	0	5	3	0	0	4	6
57	127	40	170	51	91	38	0	65	28	8	77	147	89
58	6	2	5	2	2	0	0	2	1	0	0	3	1
59	3	0	2	2	1	1	0	0	0	0	1	7	0
60													

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10													
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20													
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22	32	6	12	17	0	2	23	14	10	31	1	59	20
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30													
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47	24	62	14	104	71	40	0	13	5	0	66	101	49
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45													
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	T1-603	T1-622	T1-607	T1-604	T1-658	T2-503	T1-661	T1-645	T2-528	T2-526	T2-545	T2-558	T2-548
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18	0	1	2	0	0	0	0	0	1	2	1	0	0
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26	0	0	0	0	0	0	0	0	0	0	0	3	0
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43	0	0	0	0	0	0	2	2	0	6	0	3	0
44	0	1	1	0	1	0	0	2	117	0	0	0	1
45	0	2	1	0	0	0	0	0	141	0	0	0	0
46	0	1	0	0	1	0	0	2	183	0	0	0	1
47	0	0	0	0	0	0	0	11	9	0	0	0	0
48	0	3	12	2	11	3	35	34	16	82	82	96	48
49	0	0	0	0	0	0	1	1	0	0	0	6	0
50	0	1	0	77	49	0	0	1	0	1	0	0	0
51	0	0	0	35	24	0	0	0	0	1	0	0	0
52	0	13	2	1	25	8	98	7	2	0	13	0	2
53	0	0	3	9	9	96	34	42	33	2	2	8	23

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8	0	0	46	0	0	2	0	0	0	0	6	0	0
9	0	1	6	14	0	4	0	0	1	3	4	0	18
10	0	0	25	2	0	1	1	0	0	9	14	1	87
11	0	0	1	15	0	4	0	0	0	2	0	2	0
12	13	0	1	51	3	27	0	0	0	9	2	8	0
13	0	0	2	3	0	1	0	21	0	5	3	13	0
14	0	0	0	5	0	0	0	36	0	0	8	8	0
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17	1	0	8	5	3	3	0	0	0	2	2	17	22
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25	0	4	1	7	4	1	4	1	6	4	0	7	0
26	3	11	15	33	9	17	13	28	39	54	12	56	4
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41	0	0	1	6	1	5	2	1	14	0	121	0	0
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14	95	318	35	49	139	15	173	195	2	3	27	28	188
15	0	3	1	29	0	11	0	7	0	0	11	2	0
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20	63	172	8	0	38	0	4	3	4	11	9	0	6
21	253	148	209	195	105	35	377	265	405	279	60	135	127
22	0	0	1	1	1	0	4	0	2	2	0	2	0
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27	0	1	6	0	0	0	1	158	0	0	3	1	0
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34	0	8	6	4	9	17	34	162	0	0	17	23	2
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38	0	3	1	1	12	2	3	20	0	2	3	11	1
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43	0	0	0	0	0	81	0	0	0	0	0	0	0
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46	1	3	0	0	3	2	0	9	0	19	5	0	1
47	0	0	0	0	0	0	0	5	0	0	5	0	0
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49	44	5	6	105	14	3	15	11	0	52	776	83	0
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52	0	160	5	0	6	180	59	40	145	128	409	16	86
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10	1	151	7	60	21	82	73	256	1	798	58	58	125
11	0	0	0	1	1	9	3	0	0	13	1	4	2
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17	8	3	4	6	0	16	0	0	6	13	7	2	5
18	115	10	79	206	28	223	14	4	69	425	116	43	87
19	0	0	1	1	1	1	0	0	2	15	3	1	1
20	0	0	9	16	0	2	0	0	4	21	2	3	2
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23	5	0	1	67	1	67	0	0	0	100	5	25	1
24	0	3	20	5	6	91	10	39	0	19	7	30	3
25	0	80	13	7	7	244	52	52	81	113	178	24	70
26	0	0	1	2	0	9	2	2	13	2	1	0	0
27	0	0	13	0	2	21	5	15	57	1	8	9	0
28	0	0	0	0	0	0	1	2	0	0	0	0	0
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31	0	1	0	0	1	1	3	2	0	0	0	0	0
32	0	11	27	32	6	205	16	142	385	61	41	102	17
33	0	0	3	0	4	2	7	62	0	1	3	9	0
34	0	6	3	8	3	22	14	287	1	1	56	40	5
35	0	4	20	4	7	33	0	45	1	11	33	81	0
36	0	0	0	0	0	0	73	229	0	0	0	5	0
37	0	0	0	2	4	0	3	0	0	0	0	0	0
38	1	8	0	27	0	0	3	0	0	4	0	0	4
39	1	0	0	8	1	4	11	0	0	2	0	0	0
40	123	21	22	172	162	11	77	13	1	26	29	37	5
41	0	1	0	1	1	1	0	0	0	0	0	1	0
42	0	12	1	0	11	23	8	5	0	2	91	24	14
43	0	0	2	1	3	0	2	0	0	0	0	0	0
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45	0	0	0	1	6	2	0	0	0	0	2	1	3
46	336	161	223	95	722	317	188	0	35	113	93	236	552
47	1	4	5	3	17	5	12	0	0	4	1	1	9
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2	0	0	0	1	7	0	2	0	0	0	2	0	0
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4	120	58	148	275	324	92	154	21	107	291	714	172	92
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23	0	0	2	2	1	0	26	0	0	10	4	13	0
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25	0	1	0	4	0	2	0	0	1	3	1	1	0
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27	2	2	4	3	2	2	1	0	3	2	1	1	2
28	7	4	3	22	15	12	11	0	0	5	20	1	4
29	4	6	3	34	8	14	11	5	0	10	14	8	10
30	1	0	1	6	0	1	2	0	0	0	1	1	1
31	1	1	0	1	0	1	1	0	0	1	2	1	2
32	1	0	2	10	2	2	4	0	1	3	9	3	0
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37	3	0	1	1	3	0	3	0	0	0	0	2	1
38	2	0	12	10	10	3	36	0	27	10	1	2	5
39	0	0	3	5	0	2	0	0	0	1	0	5	1
40	0	0	0	0	0	0	0	0	0	1	0	0	0
41	2	0	11	18	17	1	7	0	0	4	5	4	0
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43	1171	66	904	5054	728	2642	827	142	3890	1418	1631	2402	370
44	0	0	2	2	0	0	0	0	0	2	0	1	0
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47	3	0	0	7	0	4	0	0	0	7	0	3	1
48	0	0	0	13	0	1	4	0	0	3	2	9	0
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52	0	0	0	2	0	1	0	0	0	1	0	0	0
53	17	1	3	55	9	27	10	0	3	27	5	18	27
54	9	0	1	24	0	6	0	0	1	36	1	16	8

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2	0	0	0	1	0	1	0	0	0	1	1	1	0
3	0	0	0	9	1	1	0	0	0	1	0	0	1
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6	2	0	0	4	1	1	0	0	0	0	0	0	0
7													
8	117	5	47	853	67	294	141	4	143	264	97	337	61
9	2	0	0	4	0	1	0	0	0	1	0	4	0
10	76	0	1	197	7	39	24	0	0	34	9	20	27
11	429	31	81	1637	185	648	290	45	90	514	294	380	329
12	3	0	0	2	1	0	0	0	0	0	0	0	0
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16	0	0	1	2	1	0	11	0	3	0	0	2	0
17	0	0	0	1	1	1	1	1	1	2	1	3	0
18													
19	18	0	11	54	20	31	9	1	40	21	13	26	7
20	0	0	0	3	0	0	0	1	3	1	1	3	0
21	3	0	2	10	0	3	4	0	3	0	2	1	0
22													
23	14	1	3	49	3	22	6	1	29	14	6	18	5
24	9	0	0	22	2	6	7	0	16	3	2	8	3
25	2	0	0	17	20	11	6	0	7	12	4	7	0
26	0	0	0	22	11	2	8	0	5	3	12	1	0
27	0	0	0	3	2	3	5	0	0	0	1	7	0
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30	0	0	0	0	0	1	2	0	0	1	0	0	1
31	0	0	1	2	0	0	3	0	0	0	0	2	0
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33	0	0	0	0	0	0	0	19	0	0	3	0	0
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36	0	8	6	0	3	43	2	10	246	87	20	50	3
37	0	0	0	0	1	2	2	0	16	2	0	1	0
38	3	2	8	16	22	8	9	0	0	9	5	1	0
39	0	0	2	0	10	0	0	0	0	0	1	1	0
40	0	0	2	0	5	0	2	0	0	0	0	1	0
41													
42	106	5	3	53	29	16	51	2	0	2	30	0	76
43	27	1	3	25	22	5	23	0	0	0	4	4	17
44													
45	1343	109	1044	416	991	184	157	15	0	278	336	117	177
46	0	0	1	2	3	0	5	0	0	5	3	0	0
47	0	0	1	1	8	0	0	0	0	0	0	0	0
48	2	4	0	9	9	7	9	1	0	3	7	32	2
49	6	7	1	12	21	27	31	1	1	10	26	125	6
50	0	0	0	7	1	8	13	0	0	1	5	11	0
51	0	0	0	0	3	0	0	0	0	0	2	0	0
52													
53	19	12	13	142	84	197	68	71	1	33	120	130	59
54	0	0	0	0	0	2	3	0	1	0	2	3	0
55	0	0	0	2	0	0	1	0	0	0	0	9	2
56	0	18	1	22	0	6	24	32	0	47	9	173	44
57	0	1	0	0	3	0	11	0	0	0	0	1	0
58	0	0	2	0	7	0	7	0	0	6	0	3	1
59	0	0	0	0	0	0	4	0	0	0	0	2	0
60	0	0	0	0	0	1	3	0	0	3	3	0	0

1													
2	35	204	110	60	43	27	790	100	0	622	122	372	57
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32	248	137	36	462	643	289	57	41	113	561	487	198	74
33	22	6	8	13	32	10	4	2	9	9	21	12	4
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35	67	10	15	35	54	29	19	5	12	27	24	37	17
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43	0	0	0	0	1	5	0	0	0	4	6	0	0
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1													
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54	156	122	126	175	83	343	76	119	0	423	270	311	94
55	0	1	0	0	0	4	1	0	0	1	0	2	0
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1													
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18	13	45	24	16	7	4	0	0	0	2	64	14	8
19	4	56	177	14	18	47	21	60	103	101	26	48	0
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23	9	62	118	2	8	14	20	2	0	12	44	31	0
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25	47	21	20	84	65	5	37	22	0	344	12	37	2
26	2	0	0	0	13	0	3	0	0	0	0	0	0
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30	1855	899	1446	315	1257	208	2990	178	1833	1078	252	426	2858
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46	0	0	20	2	0	0	0	0	21	0	0	7	0
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49	0	2	0	0	0	0	0	60	0	0	1	1	0
50	0	23	3	3	1	0	3	192	25	1	13	26	10
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52	0	65	2	0	0	2	0	367	0	16	10	50	64
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1													
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9													
10	88	95	39	14	18	15	29	13	0	17	63	32	14
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16													
17	10	147	414	0	2663	56	347	140	0	20	368	68	5
18	0	2	4	0	36	0	19	0	0	0	0	0	0
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21	0	0	0	0	0	0	0	0	0	0	0	0	0
22													
23	251	123	77	45	25	53	59	60	0	30	33	80	99
24	1346	787	173	1	358	168	66	69	99	107	7	14	637
25	20	17	8	0	6	6	0	4	5	6	1	2	11
26	1	3	2	0	9	1	2	0	4	3	0	1	0
27	0	3	0	0	1	0	0	0	0	11	6	3	3
28	0	3	0	1	0	0	0	0	3	1	2	3	1
29													
30	381	561	187	127	111	136	48	125	374	158	148	136	179
31	4	12	1	2	0	5	0	15	2	1	1	10	0
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33	321	49	11	13	295	22	57	14	16	8	26	27	44
34	131	142	55	111	43	220	76	233	1	63	96	136	21
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37													
38	0	0	6	7	0	0	0	27	0	12	3	7	0
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41	54	43	25	4	38	2	2	8	3	4	0	4	1
42	14	35	30	10	30	19	57	34	30	31	85	8	52
43	0	4	0	0	0	2	0	12	0	0	3	2	0
44	4	97	24	0	4	0	1	15	0	3	17	27	3
45													
46	11	57	126	10	71	3	81	207	1	28	27	17	16
47	0	357	0	0	11	0	0	12	0	1	1	2	0
48	45	0	307	4	2	1	0	92	0	8	19	122	12
49	3	0	10	0	0	0	0	1	0	0	0	5	0
50	7	53	17	11	4	19	4	40	0	22	36	11	9
51													
52	100	32	25	21	54	5	17	4	15	9	10	11	28
53	0	82	30	16	3	13	17	180	3	31	57	38	15
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55	0	87	11	3	0	0	1	23	0	3	12	70	5
56	0	0	5	0	0	0	0	33	1	0	2	14	0
57	12	2	31	13	3	1	1	8	0	20	13	3	0
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1													
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27	17	18	8	5	146	12	15	755	48	199	37	14	32
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39	4	6	5	4	1	21	0	9	0	1	19	29	3
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41	23	1	21	10	1	0	1	0	0	5	3	3	6
42	0	8	2	6	4	0	13	33	8	28	18	88	0
43	7	7	17	1	2	6	5	2	2	16	3	1	24
44	2	0	10	0	1	1	0	0	7	1	0	0	2
45	10	49	89	30	91	7	10	3	0	1	12	0	2
46	0	9	0	0	0	0	0	17	0	0	0	0	0
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49	0	0	0	0	2	0	0	0	0	0	4	2	0
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54	0	22	0	9	0	0	1	4	0	9	18	11	1
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53	1	0	3	2	0	1	0	6	0	10	3	5	18

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28	32	26	11	10	4	17	0	6	0	0	1	5	1
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10	1933	4143	997	207	268	924	21	538	3	112	229	1417	107
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17	84	17	20	23	34	47	1	58	1	32	39	24	2
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21	18	3	3	8	8	6	0	7	0	0	9	2	2
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29	0	28	1	0	0	6	0	4	0	2	0	18	0
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36	0	2	2	0	0	2	0	4	0	17	0	7	0
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39	884	432	179	281	300	348	58	1243	1	720	14	235	48
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41	1	0	0	0	1	0	0	2	0	2	0	5	0
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43	14	38	30	30	1	46	19	8	0	1	1	26	2
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46	149	137	107	52	26	126	24	196	0	10	40	368	27
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54	287	123	128	167	322	308	144	50	60	283	162	116	71
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58	21	28	158	28	53	107	3	84	46	0	3	7	7
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30	137	169	164	348	156	74	100	129	60	74	40	61	65
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37													
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51	0	0	1	0	0	0	1	0	1	2	1	0	5
52	0	1	0	1	0	0	21	1	1	1	0	1	3
53	0	1	2	7	0	12	5	0	0	0	0	0	0
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55	2	8	28	16	9	3	30	8	2	1	8	15	1
56	0	141	179	52	7	98	200	15	97	64	524	18	17
57	0	6	1	40	60	5	27	2	14	22	2	2	0
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60	0	0	0	16	297	0	277	1	0	0	0	0	30

1													
2	0	0	0	6	0	0	40	0	0	0	2	0	3
3	0	0	0	0	0	0	0	0	0	0	0	0	0
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5	6	1	5	0	0	31	22	1	0	6	13	6	1
6	0	16	3	7	0	9	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	1	0	0
8													
9	212	47	83	27	30	257	127	1	30	1071	220	1	2
10	0	0	0	0	0	3	4	0	0	0	0	0	0
11	8	25	21	52	6	26	0	0	0	2	0	7	0
12	2	0	1	6	0	2	3	0	3	3	5	12	6
13	0	0	0	5	0	0	0	0	0	0	4	0	6
14	0	0	0	0	0	0	0	0	0	0	0	3	60
15													
16	26	8	20	8	118	40	1	3	6	4	0	10	72
17	191	33	78	468	1324	97	3	28	12	108	150	174	817
18	0	0	2	0	1	0	0	3	0	3	0	1	1
19	1	0	7	1	30	9	0	4	0	6	2	11	30
20	80	33	244	51	798	228	1	65	14	308	70	423	839
21	2	0	5	5	14	5	0	0	0	2	1	8	4
22	1	0	2	0	2	2	0	0	0	0	1	3	6
23													
24	2	0	0	2	1	0	4	2	0	0	3	0	0
25	62	16	36	184	456	46	0	3	1	10	43	19	189
26	0	0	0	1	7	1	3	1	4	3	2	6	273
27	0	0	0	0	0	0	0	7	1	1	1	4	92
28	0	0	0	0	49	0	0	20	13	0	2	55	1047
29	9	0	0	0	10	0	1	2	0	0	0	10	52
30	0	0	0	0	0	0	0	0	0	0	0	5	48
31	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	3	1	4	0	0	0	0	0	1	0	0	0
33	0	0	0	2	0	0	0	0	0	0	0	0	0
34	0	0	0	8	0	0	0	0	0	0	0	0	0
35	0	0	1	3	4	0	12	0	0	0	0	5	0
36	0	0	6	0	4	5	2	1	4	0	7	0	0
37	0	1	0	0	7	1	11	0	0	0	0	0	0
38	0	1	0	0	2	0	0	0	0	0	0	0	0
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43	0	11	0	0	3	0	7	0	0	0	0	0	0
44	0	11	5	2	1	0	0	0	0	0	0	0	1
45	0	0	0	0	1	0	0	0	0	0	0	0	0
46	0	0	0	0	0	1	0	0	1	0	0	0	1
47	0	0	0	0	0	0	0	0	0	0	0	0	0
48	2	0	4	15	0	0	1	0	0	0	0	0	6
49	0	1	4	1	0	0	1	1	0	0	2	4	3
50	0	8	16	19	19	0	6	0	13	0	2	0	3
51	2	10	12	14	1	1	4	2	8	2	4	0	3
52	0	0	1	0	0	0	0	0	0	0	3	0	0
53													
54	5	6	26	25	6	3	0	0	0	0	0	2	2
55	13	3	1	0	0	0	0	5	43	0	0	0	3
56	2	1	2	8	0	0	1	2	3	0	0	0	0
57	1	2	1	9	0	0	1	0	6	0	2	0	4
58	0	1	0	1	0	0	0	0	0	0	0	0	0
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60	0	0	0	1	1	0	1	2	4	2	0	0	1

1													
2	1	1	3	1	1	0	0	0	0	4	0	0	0
3	1	1	2	9	0	0	0	4	13	5	5	2	7
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6	1	2	0	1	0	0	0	0	2	4	1	0	1
7	2	0	4	0	10	0	0	2	8	1	1	0	0
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9	0	0	1	10	1	0	1	1	3	0	1	0	2
10	0	0	0	13	2	0	0	0	0	1	0	0	0
11	0	0	0	4	0	0	0	0	0	0	0	0	0
12	0	0	0	17	0	0	1	0	2	1	0	0	0
13	0	0	0	0	0	0	0	0	2	0	0	0	0
14	0	0	0	87	0	0	18	2	15	2	0	1	1
15	5	0	6	0	0	0	0	0	0	0	0	0	0
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17	0	0	0	0	0	0	0	0	0	0	2	0	4
18	0	1	2	5	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	4	0	0	0
20	0	0	0	0	0	0	0	0	0	4	0	0	0
21	12	0	5	196	8	0	0	0	1	6	1	0	0
22	0	0	0	56	0	1	0	1	1	2	1	0	0
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26	0	0	0	0	9	0	3	0	1	29	4	0	0
27	0	0	0	16	0	0	1	0	0	1	0	0	0
28	0	0	0	16	2	2	0	0	0	5	97	2	9
29	0	0	1	0	0	0	0	0	0	1	10	0	1
30	1	1	3	33	5	0	1	0	4	12	33	2	49
31	0	0	0	0	0	0	0	0	0	1	2	0	6
32	0	0	0	2	5	2	3	3	11	8	0	1	3
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34	0	0	0	0	0	1	0	0	0	0	0	0	0
35	0	0	0	0	1	0	10	8	2	4	0	0	827
36	0	0	0	0	0	0	1	0	1	0	1	0	6
37	0	2	1	2	1	1	0	1	1	1	0	2	3
38	5	1	0	6	6	0	1	0	0	2	1	1	0
39	2	0	0	0	36	0	1	0	0	0	0	0	0
40	1	1	6	2	5	13	4	0	0	0	0	4	2
41	0	0	1	0	5	0	2	0	0	1	2	24	7
42	1	0	7	4	1	0	0	0	0	0	0	2	7
43	6	11	1	7	1	12	14	0	0	0	3	0	2
44	7	1	7	8	0	1	0	0	0	0	0	0	0
45	3	0	2	0	0	0	0	0	0	0	0	0	0
46	0	2	0	5	0	3	0	0	0	0	0	1	0
47	0	7	2	1	2	13	0	0	0	0	0	0	0
48	0	0	0	5	0	1	0	0	0	0	0	1	0
49	0	0	6	14	4	0	9	0	0	0	1	0	0
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52	4	19	49	244	0	3	4	5	1	4	5	4	0
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54	2	1	9	29	0	3	0	0	2	0	2	2	0

1													
2	1	0	0	14	1	0	0	1	0	0	1	1	0
3	4	14	85	473	66	25	20	2	7	10	2	8	1
4	0	0	0	20	3	2	1	1	0	0	0	1	0
5	0	0	0	0	0	0	0	0	0	0	0	19	0
6	21	18	18	4	0	3	0	123	0	3	19	14	6
7	32	3	0	0	0	0	0	121	0	0	0	12	2
8													
9	119	69	1	1	0	1	0	17	0	0	3	10	1
10	233	20	7	16	4	12	0	10	0	2	25	8	2
11	324	380	253	9	179	99	112	1	0	4	1	0	0
12	0	0	2	1	16	6	3	0	0	0	0	0	8
13	2	8	3	1	10	1	0	1	0	0	0	1	0
14	93	114	21	0	8	13	11	60	1	2	34	11	2
15	1	0	2	0	7	4	3	2	0	6	0	0	0
16	0	0	0	0	2	1	0	1	0	0	0	0	0
17													
18	11	15	53	44	434	130	54	49	5	93	6	6	0
19	1	43	182	42	73	100	18	130	1	293	26	14	21
20	0	0	1	2	0	0	0	0	0	0	1	0	0
21	1	2	2	1	4	0	0	0	0	1	2	1	2
22													
23	1	0	8	0	0	1	1	0	0	0	0	0	0
24	30	1	20	0	3	7	8	0	2	0	0	1	0
25	5	5	26	1	7	13	11	1	0	0	0	7	1
26	0	1	3	0	0	0	1	0	1	0	1	0	0
27	6	0	7	8	0	5	1	0	0	7	0	3	0
28	2	15	5	71	20	5	14	1	1	2	0	41	5
29	0	1	1	10	1	5	16	0	0	0	1	4	5
30	0	0	0	17	6	3	2	0	0	2	0	3	0
31													
32	3	0	4	0	9	3	5	1	0	0	0	4	2
33	1	4	8	18	0	2	1	0	1	0	5	1	8
34	0	1	1	4	0	0	3	0	9	0	0	0	5
35	0	0	0	1	0	1	0	0	0	11	21	0	0
36	1	1	1	4	0	0	0	0	0	3	0	0	0
37													
38	4	19	8	46	1	7	55	9	38	9	32	5	175
39	0	7	0	7	0	1	11	0	3	1	11	2	3
40	1	1	0	4	0	0	1	1	3	1	1	2	2
41	0	2	14	14	0	2	0	27	1	39	86	2	0
42	0	0	1	1	0	0	0	3	0	0	8	0	1
43	7	6	13	15	0	2	17	0	5	7	0	2	0
44													
45	1	5	0	3	0	0	0	5	3	0	4	0	0
46	1	4	3	1	0	0	0	0	1	1	1	0	0
47	2	1	0	8	0	0	0	2	0	2	0	0	0
48	0	0	0	2	0	1	0	0	0	0	0	0	0
49	0	0	0	2	0	0	0	7	0	0	3	0	3
50	1	8	9	13	2	3	6	2	3	0	5	2	2
51	9	6	13	4	21	11	15	4	1	5	37	0	6
52	2	0	0	1	5	1	1	0	1	4	10	0	2
53													
54	0	2	3	1	0	0	2	3	0	1	13	2	2
55	1	1	2	0	0	0	0	0	0	0	0	0	2
56	10	0	0	12	18	0	0	0	3	2	15	0	1
57	0	0	0	4	0	2	0	0	0	0	0	0	0
58	0	3	0	1	0	0	0	0	0	1	0	0	0
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60	0	2	0	0	0	0	7	1	0	0	1	3	4

1													
2	4	5	4	0	0	1	0	0	0	0	3	2	0
3	17	0	0	0	0	6	2	4	5	0	6	2	7
4	0	0	6	5	0	5	2	5	0	0	0	1	0
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6	0	0	0	6	0	1	0	0	0	0	0	0	1
7	2	14	5	4	1	0	0	0	0	0	0	0	0
8	0	18	7	1	0	3	1	2	0	0	0	14	0
9													
10	18	84	36	48	13	36	20	3	6	1	33	26	9
11	0	0	0	2	0	1	0	0	0	0	0	2	0
12	0	0	2	0	0	0	0	0	0	0	0	0	0
13	1	12	1	0	11	6	1	5	0	0	0	14	0
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15	0	0	3	19	0	2	0	0	0	1	0	0	0
16	0	0	0	0	0	2	2	1	0	0	4	0	24
17	0	0	0	0	0	2	2	1	0	0	4	0	24
18	1	1	0	2	2	0	0	0	0	0	3	1	0
19	10	0	0	5	4	0	0	0	0	6	5	3	0
20	1	5	0	0	22	3	14	0	0	0	0	0	0
21	0	0	0	3	0	1	0	1	3	10	12	0	0
22	2	0	1	1	0	2	5	0	0	0	0	0	4
23	2	1	3	0	2	1	3	0	0	0	0	0	0
24	2	1	3	0	2	1	3	0	0	0	0	0	0
25	0	6	0	10	1	0	3	4	1	3	5	1	0
26	2	0	0	2	0	0	0	0	0	0	1	1	0
27	3	1	0	6	0	0	0	0	1	2	0	0	0
28	0	0	0	3	0	0	0	0	1	1	0	0	1
29	0	0	0	11	1	0	0	0	0	3	0	0	0
30	0	0	0	36	0	0	12	0	0	0	25	0	2
31	0	0	0	36	0	0	12	0	0	0	25	0	2
32	12	0	0	19	10	10	0	0	0	0	1	24	4
33	0	0	3	3	0	0	0	0	0	0	0	0	2
34	2	0	4	1	5	4	13	0	0	3	12	0	0
35	0	0	0	1	0	0	0	0	0	0	2	2	0
36	0	0	0	6	0	2	0	0	2	1	0	3	0
37	4	0	0	2	13	0	4	0	0	0	4	0	0
38	0	9	6	14	15	12	5	0	0	0	0	6	4
39	0	0	1	5	0	3	0	0	3	0	0	0	0
40	0	2	1	1	0	1	2	0	0	2	0	0	0
41	0	2	1	1	0	1	2	0	0	2	0	0	0
42	15	2	38	22	29	3	3	1	2	1	26	2	8
43	0	2	0	3	0	0	2	3	0	1	10	2	0
44	5	5	3	1	28	3	20	3	8	2	13	1	11
45	1	2	0	0	0	0	3	0	0	5	0	0	1
46	0	4	2	2	1	0	5	0	6	1	2	0	2
47	0	4	2	2	1	0	5	0	6	1	2	0	2
48	2	1	10	38	91	4	37	3	20	0	35	5	2
49	0	21	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	4	0	1	1	0	5	0	0	0	0
51													
52	134	21	92	53	58	20	30	16	6	42	22	14	11
53	5	4	4	3	3	4	0	0	3	3	1	1	0
54	3	0	1	0	1	4	0	0	0	0	0	1	0
55	1	0	4	8	1	0	5	0	7	1	4	0	12
56	7	0	0	3	0	0	0	0	0	0	3	0	0
57	12	2	0	7	7	0	0	0	0	1	0	3	0
58	67	36	28	31	16	7	22	18	44	12	13	7	18
59	36	16	14	29	6	6	1	8	0	3	6	6	1
60	0	2	0	1	1	1	1	0	1	0	1	0	0

1													
2	9	3	2	6	0	1	8	7	8	4	6	9	0
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8	4	0	1	0	2	0	3	0	1	0	0	0	0
9													
10	0	1	2	10	1	0	29	0	2	0	8	0	19
11	1	2	5	3	5	1	0	0	1	4	4	9	1
12	0	5	34	28	2	4	26	5	7	4	6	12	119
13	0	0	1	3	0	0	9	0	3	0	2	0	12
14	0	1	0	3	0	0	4	1	0	0	2	0	8
15													
16	2	12	7	90	5	18	35	4	53	1	20	1	67
17	1	8	4	9	8	6	6	0	4	0	2	9	0
18	0	0	1	12	5	4	58	1	0	3	19	0	1
19	28	24	36	56	21	21	57	7	32	3	12	6	25
20	0	0	0	14	1	3	25	0	1	7	28	0	0
21	0	0	0	0	0	0	0	0	0	0	6	0	0
22													
23	3	0	0	8	0	0	0	0	0	0	0	1	0
24	0	0	0	3	0	2	1	0	0	0	4	0	1
25	0	0	3	4	0	0	0	3	13	0	0	0	0
26	0	0	0	1	3	0	11	2	3	0	1	0	2
27	114	16	19	411	37	10	82	5	29	34	14	2	3
28	0	0	0	1	0	0	0	0	0	0	0	0	0
29	0	0	0	5	1	2	1	0	0	0	2	0	0
30													
31	35	10	10	27	8	5	5	4	54	6	37	2	5
32	29	13	32	37	15	3	1	10	13	9	6	2	2
33	0	0	0	1	0	0	0	0	1	0	0	0	0
34	2	0	0	0	0	0	0	1	0	0	0	0	8
35	0	2	1	1	0	0	0	0	0	0	0	1	0
36													
37	4	52	13	17	10	1	0	0	0	1	0	0	0
38	3	0	0	1	9	3	2	0	3	1	2	2	2
39	20	53	2	0	15	4	0	2	1	0	7	11	2
40	49	53	4	3	4	9	0	34	0	9	41	9	3
41	0	0	1	0	4	0	5	0	0	0	1	3	1
42	3	0	1	1	1	0	2	3	2	7	5	0	6
43	1	0	0	0	4	1	1	1	6	1	6	3	1
44	3	8	5	5	28	0	4	2	14	4	12	7	2
45	1	1	0	0	4	1	0	0	1	0	0	1	0
46													
47	0	0	0	0	0	1	4	10	141	0	0	0	2
48	1	5	2	2	8	3	4	7	0	0	1	2	0
49	1	2	0	1	1	1	5	0	4	0	2	1	0
50	18	1	4	4	0	2	0	1	0	0	1	0	0
51	0	0	0	9	9	0	0	18	5	5	0	2	2
52													
53	0	0	11	16	2	14	0	17	14	6	6	1	2
54	20	0	0	30	0	2	0	1	4	0	0	0	8
55	1	3	0	1	0	0	0	0	0	1	0	1	0
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18	0	3	2	3	0	0	0	2	6	0	50	28	1
19	0	1	0	0	0	0	0	1	0	0	10	6	0
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21	0	0	0	0	0	4	71	1	3	0	6	2	18
22	0	0	0	0	0	1	1	0	0	0	0	0	0
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25	0	2	0	48	1	1	58	68	12	0	0	0	19
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29	5	206	0	8	0	7	2	4	21	1	67	387	12
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37	1	0	0	0	0	0	0	0	0	0	0	0	8
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39	1	0	5	0	0	0	0	0	5	0	24	3	0
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47	0	0	0	15	0	3	15	7	9	0	0	0	31
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37	30	1	0	124	22	114	79	226	48	3	45	9	35
38	0	0	0	3	0	9	5	6	1	0	3	0	1
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44	0	7	6	14	0	46	36	16	7	0	9	6	15
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54	51	58	56	4	0	12	107	19	26	444	27	1	55
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57	6	51	13	10	0	131	43	27	73	3	38	45	35
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26	7	38	11	13	0	114	43	17	50	6	73	84	137
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28	5	0	0	5	0	31	13	22	2	0	59	60	0
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34	3	12	0	0	0	10	0	0	55	0	72	15	47
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36	0	3	0	10	0	4	0	0	21	1	17	0	34
37	9	0	0	0	0	6	0	3	5	0	1	0	18
38	0	0	4	1	0	0	0	0	3	7	0	0	0
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42	11	11	17	1	0	0	0	0	1	11	0	5	2
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46	1	0	3	0	0	0	0	0	0	0	1	3	0
47	51	0	87	0	0	16	0	2	27	1	102	175	0
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53	33	182	165	24	0	2	10	1	25	109	0	16	20
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20	10	0	0	0	0	0	0	0	3	3	0	0	0
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37	6	16	37	0	0	1	0	0	3	8	0	13	7
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41	2	4	2	0	0	2	0	0	1	4	0	2	0
42	1343	3383	3976	1323	2	288	213	284	1441	5765	129	570	1059
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45	28	7	13	0	0	2	0	0	9	20	5	10	8
46	5	0	8	0	0	1	0	0	4	2	0	2	4
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50	18	30	15	1	1	1	0	0	8	47	5	3	10
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53	3	3	10	1	0	0	0	0	5	0	0	4	4

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7													
8	317	531	875	57	16	53	16	10	328	1057	91	155	187
9	4	1	5	0	0	0	0	0	0	0	0	0	1
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11	879	599	1030	64	22	80	17	8	661	1426	226	439	304
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17	4	2	7	6	0	0	0	3	1	5	0	0	2
18													
19	27	39	76	31	0	3	3	4	29	81	1	9	22
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21	1	6	4	3	0	0	0	0	4	10	1	0	2
22													
23	6	36	33	2	1	1	5	1	8	40	0	8	11
24	7	10	19	2	0	0	0	1	7	27	5	4	8
25	248	175	87	17	0	2	0	1	57	178	4	36	33
26	16	156	159	21	0	5	18	1	15	78	2	10	25
27	3	19	22	0	0	0	0	0	15	37	1	0	8
28	0	3	5	0	0	0	0	0	4	23	3	0	9
29	1	15	3	3	0	0	2	0	7	14	2	1	21
30	0	5	0	4	0	0	0	0	1	11	0	2	3
31													
32	19	54	53	27	0	2	1	8	9	1	0	0	8
33	18	13	18	1	0	1	0	0	4	0	0	0	3
34	0	0	0	0	0	0	0	0	0	0	5	0	9
35	0	3	0	0	0	1	1	0	0	0	1	1	0
36	2	44	1	6	0	359	41	27	8	14	37	15	14
37	0	13	1	0	0	1	1	3	1	2	3	1	2
38													
39	17	40	66	38	0	1	0	0	12	53	3	20	19
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41	4	2	7	10	0	0	0	0	0	0	0	0	6
42	0	0	3	0	0	0	0	0	28	0	0	0	0
43	3	0	5	0	0	0	0	0	14	1	0	0	0
44													
45	170	171	392	472	0	28	21	7	107	266	69	385	212
46	4	5	13	2	0	0	0	0	1	9	1	16	3
47	12	2	6	11	0	0	0	0	3	5	0	6	2
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49	2	16	7	4	0	4	0	4	88	19	37	16	14
50	17	42	31	1	0	0	0	1	23	92	0	2	20
51	13	13	8	1	0	1	0	0	12	36	3	1	7
52													
53	79	148	193	17	0	13	0	1	134	425	92	47	200
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56	2	0	0	59	4	12	49	48	33	0	141	40	86
57	0	0	0	0	0	0	0	0	1	0	10	4	1
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59	1	12	3	0	0	0	0	0	0	2	3	21	0
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9	0	0	0	0	0	1	0	0	1	1	0	3	0
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23	302	210	163	23	0	2	0	1	68	291	9	61	17
24	12	13	16	8	0	1	0	0	7	10	0	13	8
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27	4	6	1	2	0	1	0	0	2	4	2	9	0
28	2608	981	614	276	24	46	2	13	542	1320	297	1293	255
29	13	24	86	18	0	4	0	0	14	83	13	40	18
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32	36	18	6	4	0	3	1	2	0	24	13	7	33
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45	26	24	13	9	0	15	1	5	5	9	0	0	9
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48	30	25	35	11	0	4	0	1	2	3	1	0	8
49	90	150	149	44	0	7	0	10	10	18	0	0	23
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53	7	3	6	3	0	6	0	0	0	0	0	0	1

1													
2	729	1029	1097	691	0	1280	29	320	136	113	140	12	359
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9	29	2	2	6	0	9	244	0	19	47	1	12	21
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21	24	9	3	2	0	2	9	0	4	44	0	0	11
22	0	3	0	0	0	0	33	0	0	0	0	0	1
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24	16	4	0	1	0	0	0	0	2	4	0	1	1
25	0	0	0	5	0	0	2	0	1	2	0	0	0
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27	0	5	0	4	0	0	2	0	0	18	0	0	0
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40	15	92	0	47	0	12	12	12	22	220	76	22	222
41	3	0	0	11	0	18	100	1	2	0	12	16	132
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53	17	57	66	12	0	5	0	9	16	189	3	2	0
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26	97	166	484	143	4	63	16	11	222	46	130	846	315
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31	11	31	40	10	0	1	1	4	7	9	12	54	13
32	40	163	115	52	12	16	18	33	109	34	76	85	76
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38	3	0	8	0	0	0	0	0	2	0	0	8	0
39	3	10	21	289	0	127	166	243	35	14	38	10	23
40	0	2	0	0	0	0	0	0	1	0	1	1	0
41	0	0	0	128	0	1	4	0	1	0	0	0	2
42	3	9	0	101	0	16	68	62	34	1	19	13	7
43	0	0	0	0	0	0	0	0	0	0	0	0	0
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47	5	1	16	25	0	0	3	8	11	1	5	20	12
48	8	2	0	15	0	47	13	25	15	0	31	6	47
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52	1	11	1	9	0	25	3	3	8	0	1	22	4
53	5	0	0	1	0	38	6	7	4	0	1	18	1
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55	0	0	1	0	4	0	1	0	0	0	0	0	0

1													
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19	65	27	8	6	301	107	128	13	52	8	2	2	88
20	13	2	2	3	41	0	1	3	11	1	0	4	13
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22	5	1	2	0	37	0	0	0	3	0	0	0	11
23	8	1	1	0	40	0	2	2	3	0	0	1	11
24	2566	1212	246	593	17786	321	277	469	1099	21	38	262	4662
25	10	3	0	3	30	4	1	0	2	0	0	1	11
26	54	24	10	13	385	8	0	8	17	1	0	1	104
27	1	26	0	2	0	1	7	18	6	1	2	0	15
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31	19	0	0	4	0	3	0	0	5	108	1	0	0
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33	0	36	0	0	0	4	0	0	3	0	61	112	0
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35	2	163	113	10	0	3	0	3	34	6	6	0	3
36	0	3	2	6	0	3	0	1	6	3	14	0	0
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43	11	0	0	3	0	0	0	2	0	0	2	1	0
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19	9	61	43	14	22	189	210	19	118	150	72	28	108
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36	0	0	0	0	0	2	0	1	1	0	8	7	0
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9													
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9													
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22	15	2	3	0	0	0	0	0	4	0	1	8	1
23	33	6	5	0	0	0	0	0	4	2	0	9	1
24													
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28	23	1	94	0	0	3	10	0	41	0	100	33	148
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32	2	0	1	0	0	0	0	0	0	0	0	0	0
33													
34	22	14	7	7	0	0	12	6	5	23	14	32	1
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39	31	19	53	49	0	3	8	3	19	35	4	4	7
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53	0	1	1	2	0	2	8	6	1	0	1	0	2

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24	9	0	3	0	0	0	0	0	10	1	0	0	2
25	183	0	0	3	0	0	0	0	2	38	0	0	0
26	33	0	0	0	0	0	0	0	0	2	0	0	0
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28	0	1	1	9	0	6	11	2	5	1	0	2	3
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30	0	2	0	1	0	4	2	0	0	1	64	0	0
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34	1	0	0	3	0	4	4	1	5	0	0	0	8
35	98	4	14	1	0	7	1	7	34	52	12	4	4
36	11	7	0	0	0	0	0	0	0	4	0	13	3
37	90	4	8	0	0	1	0	0	18	33	1	6	0
38	25	0	1	0	0	5	1	3	6	4	1	0	2
39	77	18	80	2	0	2	0	0	8	9	1	0	5
40	107	3	14	0	0	0	0	0	12	2	0	1	0
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43	2	0	0	0	0	1	0	0	3	1	4	7	0
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45	0	0	0	0	0	0	0	0	0	0	0	0	0
46													
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	T0-658	T0-659	T0-664	T1-501	T1-507	T1-508	T1-512	T0-663	T1-513	T1-525	T1-526	T1-527	T1-528
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2													
3													
4													
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8	2	0	0	0	0	1	0	1	0	0	5	1	0
9	1	0	4	0	5	8	0	12	1	0	17	18	0
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11	0	0	1	0	1	0	0	0	0	0	0	28	0
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13	0	3	0	0	0	0	0	0	0	0	0	0	0
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15	0	0	1	0	18	0	10	2	0	11	5	0	0
16	18	0	5	10	0	26	0	19	2	0	13	42	0
17	10	0	4	11	0	27	0	17	1	1	11	27	0
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24	2	0	4	4	0	1	0	0	0	96	0	15	1
25	7	49	4	1	0	115	14	9	1	1	0	48	0
26	5	0	6	0	13	0	0	0	0	20	0	33	0
27	142	3	75	42	4	25	4	3	51	4	5	262	0
28	229	3	186	95	7	43	2	5	91	8	19	411	0
29	2	34	146	0	0	0	0	4	0	33	0	28	0
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31	0	9	0	0	0	3	1	0	0	0	0	1	0
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47	3	33	14	0	0	17	2	4	0	0	0	11	0
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49	2	0	18	3	0	0	1	0	0	0	0	0	0
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53	47	4	7	7	17	0	149	1	0	30	0	26	31

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10	0	0	1	0	3	0	0	0	0	0	2	10	0
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12	2	0	2	0	25	0	0	0	14	17	61	4	0
13	4	0	12	0	36	20	6	10	0	22	2	71	0
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15	1	1	2	0	25	0	0	0	0	22	3	0	0
16	1	0	0	0	3	0	4	0	1	0	0	0	0
17	0	0	0	0	2	0	0	0	0	1	2	5	0
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36	9	0	9	1	4	0	8	61	1	1	11	9	0
37	5	0	8	3	0	1	0	26	0	0	2	1	0
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39	1	1	4	14	0	5	17	2	14	0	0	0	0
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7	0	0	0	9	0	0	0	0	2	0	4	0	0
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15	0	0	0	0	0	0	0	0	0	0	0	0	10
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17	0	3	4	1	2	2	5	0	5	4	2	17	3
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22	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	1	1	0	3	2	6	0	8	0	0	0	0
24	2	4	0	5	0	0	2	0	0	0	0	0	0
25	14	88	17	4	0	3	0	4	0	0	0	0	0
26	1	2	6	439	0	707	93	0	0	0	0	9	0
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28	3	0	6	3	56	0	6	0	0	0	2	0	0
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31	4	20	14	0	0	0	0	0	0	0	0	7	0
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33	306	254	123	77	34	71	9	50	8	13	0	118	1
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35	0	0	0	0	0	0	0	0	0	0	0	0	1073
36	19	40	110	5	0	2	2	25	1	15	0	37	0
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39	7	2	7	8	1	3	7	1	0	16	3	10	0
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41	2	2	5	1	4	1	4	2	0	1	2	0	0
42	0	0	0	0	0	0	0	0	0	0	0	0	0
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9	15	9	44	4	22	20	3	70	16	12	41	22	0
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22	0	59	0	1	0	0	0	0	0	0	0	0	0
23	0	0	0	6	168	59	162	0	61	28	30	268	0
24	76	16	155	14	28	11	36	545	7	42	12	143	0
25	102	35	422	23	132	68	174	383	16	77	12	77	0
26	0	4	1	0	4	0	3	2	2	3	0	2	0
27	29	97	21	0	1	7	0	7	0	0	0	15	0
28	56	85	5	0	0	1	1	1	0	0	0	0	0
29	11	12	3	1	0	0	1	0	0	0	0	0	0
30	179	212	169	24	11	96	18	55	15	4	14	250	0
31	9	8	14	35	1	32	26	28	44	1	0	2	0
32	4	45	22	10	131	30	118	39	6	18	4	56	0
33	30	2	64	30	0	0	73	61	4	54	0	1	0
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35	15	14	12	48	47	44	30	2	0	2	1	4	0
36	26	76	6	5	0	0	48	0	0	1	0	0	0
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40	3	0	19	12	62	54	20	5	27	32	45	8	199
41	2	0	0	0	2	0	0	0	0	0	3	0	1
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45	0	0	0	0	2	0	0	0	0	0	3	0	0
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53	6	0	0	0	1	0	0	0	0	0	1	0	0

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13	0	0	1	0	0	0	1	0	2	1	0	1	0
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15	1	0	1	0	5	0	3	0	0	2	1	0	0
16	1	0	2	0	7	0	0	1	0	1	15	2	0
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23	0	0	2	2	11	1	1	2	8	5	4	1	0
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26	0	0	0	0	7	1	1	0	0	0	2	2	0
27	0	0	0	0	3	1	1	0	4	5	4	1	1
28	0	1	6	6	28	1	19	1	18	6	21	4	5
29	2	0	4	8	29	2	12	0	17	9	16	4	1
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31	0	0	0	2	2	0	3	0	3	0	1	0	0
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45	1	0	3	0	5	0	0	1	10	1	19	2	1
46	0	0	2	0	5	0	1	1	1	3	4	0	0
47	185	10	311	181	2512	192	1615	74	1437	1209	2934	1446	883
48	0	0	2	0	1	0	3	0	0	0	2	5	1
49	0	0	0	0	0	0	0	0	0	5	0	0	0
50	0	0	2	0	11	0	2	1	2	3	0	2	0
51	1	1	3	0	6	0	0	0	1	2	3	2	0
52	0	0	0	0	0	0	0	1	0	2	5	1	0
53	0	0	2	0	11	0	1	0	0	9	3	1	0
54	0	0	1	0	1	0	0	0	2	4	3	3	0
55	2	0	2	0	4	0	2	0	4	1	10	2	0
56	0	0	0	0	0	0	0	0	0	4	1	0	0
57	1	2	2	0	35	0	3	0	7	31	30	4	0
58	0	0	0	0	0	0	0	0	0	0	0	0	0
59	1	2	2	0	35	0	3	0	7	31	30	4	0
60	0	0	0	0	1	0	5	0	7	0	33	0	1

1													
2	0	0	0	0	0	0	0	0	0	0	5	0	0
3	0	0	0	0	2	0	0	0	0	4	2	0	0
4	0	0	0	0	4	0	0	0	0	2	0	1	0
5	0	0	0	0	3	0	4	0	1	0	0	3	4
6	0	0	0	0	0	0	2	0	1	3	1	0	0
7	40	2	47	14	541	16	162	14	140	330	297	179	46
8	0	0	0	0	0	0	0	0	0	4	1	0	0
9	4	1	5	0	75	2	8	1	3	75	34	13	0
10	48	7	85	59	1012	17	401	14	381	801	534	237	46
11	0	0	0	0	0	0	0	0	0	0	2	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	1	0	1	0	2	0	1	4	1	0	0
15	1	0	1	1	11	0	7	0	3	0	3	2	1
16	1	0	1	0	0	0	0	0	0	0	8	1	0
17	0	0	0	0	0	0	0	0	3	0	0	0	3
18	4	0	6	0	19	0	16	1	28	12	28	17	10
19	0	0	0	0	1	0	0	0	2	0	3	0	0
20	0	0	0	1	7	0	4	0	0	0	3	1	2
21	1	0	1	4	22	2	5	1	6	12	20	2	2
22	1	0	0	0	14	3	4	0	3	6	14	5	7
23	8	1	16	0	17	0	7	3	0	0	70	0	20
24	4	0	5	0	9	3	0	0	13	3	40	1	0
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26	0	0	0	0	1	0	0	1	1	0	1	1	0
27	1	0	4	0	1	0	21	0	0	2	12	2	0
28	2	0	1	0	0	0	5	0	0	0	9	0	0
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34	32	24	80	15	335	39	10	36	1	25	10	89	0
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39	0	0	1	0	0	0	50	1	66	0	14	0	0
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41	22	8	32	15	205	17	54	13	261	743	580	177	63
42	0	0	0	0	0	0	0	1	0	0	9	0	0
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44	2	3	3	16	19	15	153	0	8	0	4	0	0
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46	3	0	2	1	7	0	12	0	6	7	9	5	0
47	1	0	1	0	2	0	1	0	0	1	3	2	0
48	7	11	26	18	328	13	266	11	272	687	231	400	0
49	1	0	6	0	2	0	2	0	3	2	0	6	0
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55	0	3	9	2	2	0	0	2	0	0	0	1	0

1													
2	25	54	61	678	788	2570	61	84	599	1787	59	322	0
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6	12	9	50	2	30	3	15	6	13	2	0	0	0
7	0	0	3	0	1	0	0	0	0	5	2	2	0
8													
9	43	26	54	11	49	352	48	24	5	283	50	247	1
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11	0	19	0	0	0	0	1	0	2	0	0	4	0
12	10	5	2	18	0	0	11	0	0	0	0	9	0
13	0	0	4	0	7	0	2	0	1	1	0	0	0
14	55	42	121	69	109	54	101	104	50	70	25	94	0
15	0	0	19	0	0	0	0	1	0	0	0	0	0
16													
17	1	0	112	0	5	0	0	0	0	8	0	6	0
18	2	0	4	1	4	1	5	5	0	0	2	3	0
19	0	0	2	0	3	0	1	8	0	2	8	0	0
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21	1	0	0	0	3	0	0	0	0	4	2	0	1
22	0	0	1	0	5	0	1	1	0	2	14	0	0
23													
24	0	0	0	0	0	0	1	1	0	1	3	0	0
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26	6	0	8	0	21	0	1	3	3	6	93	0	12
27	0	0	0	0	0	0	0	0	0	0	1	0	3
28	0	0	3	0	0	0	0	0	0	0	1	0	0
29	2	0	1	0	4	0	1	0	0	0	16	0	5
30	0	0	0	0	3	0	0	0	0	2	11	1	2
31													
32	38	17	106	81	968	40	180	139	41	603	1855	40	2384
33	1	0	0	11	19	9	28	9	9	12	22	11	2
34	0	0	2	0	5	0	5	0	4	2	6	1	0
35	3	2	3	35	76	26	45	13	17	35	54	17	6
36	0	1	2	0	27	0	7	1	7	23	9	2	11
37	1	0	0	1	3	3	2	0	1	4	5	1	0
38													
39	13	8	23	3	30	4	83	1	7	32	3	32	0
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41	0	0	0	0	0	1	8	0	1	0	8	1	0
42	4	0	14	238	0	333	679	41	75	0	161	66	0
43	0	0	0	8	0	2	4	0	0	0	0	0	0
44	0	0	0	4	0	6	7	1	1	0	1	1	0
45	0	0	0	0	0	0	0	0	0	0	4	0	0
46													
47	329	18	10	209	23	29	13	2	12	11	61	994	0
48	9	0	1	6	1	0	0	0	0	0	1	20	0
49	0	3	8	0	13	3	12	2	6	11	11	12	0
50	1	1	1	0	2	0	0	1	1	3	0	0	0
51	0	6	2	0	3	0	0	3	0	1	0	0	0
52	1	7	2	0	2	0	0	1	1	2	0	0	0
53													
54	1	5	0	0	0	0	0	0	1	6	0	0	0
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56	1	0	4	0	5	0	0	0	3	10	6	0	0
57	0	0	0	0	0	0	0	0	0	1	2	0	0
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60	0	1	1	0	2	0	0	0	0	12	1	0	0

1													
2	134	142	143	0	239	5	42	25	158	1368	167	54	103
3	0	0	0	0	0	0	0	0	0	10	6	5	2
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5	5	108	8	4	0	0	6	12	4	4	17	14	0
6	3	3	89	0	0	0	17	8	17	6	0	0	0
7	5	10	2	0	8	0	17	2	0	3	0	4	13
8	20	31	10	0	14	0	16	6	13	95	2	1	9
9	15	48	11	24	130	0	26	4	27	269	6	10	93
10	3	27	0	20	67	0	10	0	41	3	1	9	78
11	0	1	7	0	0	0	0	2	0	72	1	0	0
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13	36	176	8	184	656	4	126	11	200	170	53	46	640
14	2	17	0	10	21	0	4	0	12	3	3	5	22
15	0	2	0	0	3	0	1	0	3	7	0	0	2
16	1	1	0	1	4	0	3	0	1	5	0	2	1
17	4	8	1	0	4	0	1	0	0	3	0	1	4
18	10	1	1	2	0	0	3	0	1	0	0	2	1
19	2	0	0	0	18	0	2	0	4	6	3	0	8
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22	0	0	2	10	0	0	1	0	3	3	0	0	0
23	42	23	26	740	26	18	93	5	132	542	463	2	0
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26	0	0	1	5	0	0	0	0	0	0	2	0	0
27	0	0	0	0	0	0	2	0	1	4	4	0	0
28	0	0	36	0	2	0	2	0	4	4	0	0	1367
29	0	0	3	0	0	0	0	1	0	2	0	0	5
30	4	3	16	2	26	0	7	24	11	32	11	6	734
31	7	0	1	0	0	0	0	0	0	1	1	0	0
32	4	1	1	0	4	0	0	2	0	1	0	1	0
33	54	5	10	1	40	0	8	2	1	4	19	10	0
34	0	5	40	0	0	0	0	0	0	0	0	0	0
35	18	20	47	3	511	4	1870	11	98	573	473	44	0
36	44	5	9	0	12	0	1	4	0	1	4	6	0
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38	1	0	1	0	8	0	7	0	7	3	12	1	0
39	1	0	0	0	3	0	3	0	0	1	13	0	0
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41	0	0	0	0	0	0	0	0	0	0	5	2	1
42	256	253	223	9	771	84	30	8	56	0	8	9	0
43	0	8	0	0	26	3	881	0	168	0	1	0	0
44	4	55	22	2	3	1	1	10	0	0	2	85	0
45	0	0	5	0	1	0	2	0	1	0	0	0	0
46	4	0	12	16	24	0	0	7	24	0	35	0	0
47	14	37	240	1	289	131	299	27	153	111	154	135	1
48	0	0	3	0	0	0	0	0	1	0	0	0	0
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50	31	10	42	0	0	0	1	13	0	0	2	38	0
51	46	61	128	125	91	63	205	0	331	0	5	30	0
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53	0	0	0	0	0	0	0	0	0	0	0	0	0

1													
2	9	8	8	0	0	13	7	7	7	10	3	3	0
3	0	0	0	0	1	0	8	0	2	0	2	2	0
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6	1	0	2	0	0	0	0	0	0	0	2	2	0
7	1	0	1	0	0	0	0	0	3	0	3	0	0
8	0	0	0	0	1	0	0	1	0	2	0	0	0
9													
10	2	10	30	0	22	0	55	1	7	41	148	0	0
11	5	2	13	3	26	6	20	8	28	29	13	44	0
12	13	24	7	18	0	4	2	4	0	0	0	84	0
13	0	2	0	0	0	0	0	0	0	0	0	0	0
14													
15	11	9	65	126	42	12	67	172	27	32	57	167	0
16	0	4	0	0	3	1	8	2	1	0	0	0	0
17	7	10	23	2	0	0	5	4	0	0	0	1	0
18	1	0	5	0	13	2	16	2	23	0	16	7	0
19	1	88	77	16	120	55	56	17	66	152	95	48	3
20	0	0	0	0	2	0	1	0	0	5	2	0	0
21	0	5	0	0	0	0	0	0	0	0	0	0	0
22													
23	1	81	19	0	125	102	92	2	72	77	8	0	0
24	41	23	71	0	6	2	27	164	1	41	25	27	0
25	92	9	17	0	0	2	53	111	145	42	80	184	0
26	1	0	3	0	0	0	1	3	0	0	0	0	0
27	1	0	3	0	1	0	3	4	1	0	6	3	0
28	2	0	4	2	0	0	0	0	0	0	2	2	3
29													
30	195	6	200	157	141	109	215	531	288	348	731	398	154
31	0	0	0	1	0	0	0	3	1	2	1	0	0
32	0	0	0	1	0	0	0	3	0	1	0	1	0
33	0	19	19	0	8	1	4	2	1	7	0	24	0
34	0	0	0	11	0	35	0	0	0	0	0	0	0
35	0	1	27	0	0	0	1	2	0	1	0	25	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	47	0
38													
39	1	3	0	0	1	33	14	3	3	0	5	2	0
40	0	0	0	0	0	0	2	0	0	0	3	6	0
41	0	0	0	0	6	0	3	0	0	0	2	0	0
42	8	244	71	0	0	0	26	25	0	3	22	0	0
43	0	0	0	0	0	0	0	4	0	0	0	0	362
44	0	0	0	0	0	0	0	0	0	0	0	3	363
45													
46	29	9	5	0	0	4	1	151	13	0	6	0	0
47	9	61	23	291	96	414	60	1	67	0	24	0	0
48	3	2	38	1	0	0	0	5	37	0	65	0	0
49	4	1	13	0	0	0	0	6	0	0	0	0	0
50	196	208	31	22	2	2	10	55	14	4	5	0	0
51	1	4	1	0	0	0	0	0	0	1	0	0	0
52													
53	2	20	6	1	0	2	0	2	4	0	2	0	0
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55	0	51	0	0	0	0	0	0	0	0	0	0	0
56	6	10	5	2	0	0	1	0	1	0	0	3	0
57	76	61	103	45	0	11	48	14	4	1	11	74	0
58	9	16	21	63	40	7	16	10	14	46	1	2	1
59	3	5	4	3	1	0	3	1	1	2	0	0	0
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1													
2	4	7	5	0	0	2	2	0	0	0	1	2	0
3	0	1	1	0	0	3	0	1	0	0	0	0	0
4	17	0	8	3	0	4	0	4	0	1	0	1	0
5	12	25	12	10	0	6	8	15	2	1	0	11	0
6	2	5	2	6	0	1	2	2	0	0	0	3	0
7	41	15	54	35	1	4	21	6	1	0	5	15	0
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9	1	26	8	195	454	687	16	20	286	650	23	13	0
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12	1	0	0	204	0	6	0	4	1	0	0	0	106
13	0	1	0	4	0	0	0	0	0	0	0	0	194
14	0	0	3	0	1	0	1	0	0	0	0	0	0
15	0	0	3	0	1	0	1	0	0	0	0	0	0
16	812	118	781	111	104	0	30	73	169	4	120	82	0
17	5	0	4	0	0	0	0	0	0	0	3	0	0
18	1	16	0	1	0	15	0	6	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	1	0	354
20	0	0	0	0	0	0	0	0	0	0	0	0	61
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22	4	16	38	10	40	16	37	76	31	28	38	19	0
23	121	1	31	26	0	144	1	473	73	10	22	37	2
24	8	0	1	1	0	5	0	14	2	0	1	0	0
25	3	0	0	1	0	0	0	7	2	0	0	0	0
26	3	3	9	27	0	5	3	2	8	0	16	0	0
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28	19	51	100	16	154	253	85	516	108	90	277	171	6
29	0	2	10	2	4	11	4	9	6	10	3	12	2
30	0	0	3	0	0	0	0	9	0	0	3	2	0
31	23	2	21	6	5	4	8	36	18	11	20	22	26
32	16	7	62	40	64	45	202	147	84	143	91	174	0
33	1	0	3	1	0	0	3	5	6	8	8	12	0
34	0	31	14	2	0	7	2	0	0	0	0	46	0
35	20	46	5	34	0	0	13	0	6	1	9	0	0
36	52	390	6	5	3	0	1	0	8	1	0	0	0
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38	13	0	0	0	0	3	3	7	0	1	8	0	30
39	63	51	84	34	32	21	29	279	44	47	66	15	0
40	0	5	0	9	0	8	6	2	8	1	0	5	0
41	0	0	3	2	0	19	0	1	98	0	0	9	18
42	42	44	146	26	0	42	9	49	42	10	50	26	0
43	0	0	0	0	0	5	0	0	0	0	7	6	0
44	8	14	133	136	43	10	43	0	81	55	9	0	0
45	0	2	2	3	0	0	3	0	7	2	0	0	0
46	4	29	41	0	16	45	28	2	46	30	9	26	0
47	3	1	1	19	17	3	31	6	25	18	15	6	7
48	166	17	24	81	5	0	17	43	51	23	9	27	0
49	0	3	8	4	0	9	0	13	6	3	4	0	0
50	12	42	39	55	0	64	13	19	22	23	4	0	0
51	1	70	15	0	7	0	3	0	0	8	0	0	0
52	8	12	12	1	3	4	2	10	9	6	7	19	0
53	0	19	18	0	6	11	5	21	3	6	33	39	0
54	6	0	31	5	16	0	12	34	7	1	7	2	0
55	0	0	0	1	1	2	1	6	0	1	2	5	0

1													
2	2	1	0	2	0	0	4	17	0	0	17	2	0
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5	1	1106	174	0	0	0	0	3	0	0	0	0	0
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8	0	2	0	0	0	0	0	0	0	0	1	0	0
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11	9	1	38	2	2	2	6	35	21	4	125	21	0
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33	75	245	17	2	0	0	0	123	5	0	23	4	0
34	3	31	2	0	0	0	0	15	0	0	5	0	0
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36	0	0	3	1	0	0	0	2	0	0	0	0	17
37	0	0	3	1	0	0	0	2	0	0	0	0	17
38	2	74	26	0	0	0	0	0	0	0	3	0	0
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17	40	28	42	55	59	100	80	24	11	46	81	334	9
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17	13	1	3	3	0	0	0	31	0	1	7	0	0
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30													
31	113	0	0	14	0	0	0	15	1	2	14	5	0
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37													
38	0	0	1	0	0	0	1	0	3	0	0	2	1
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45	1	29	15	5	25	13	3	5	8	0	9	24	0
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51													
52	22	8	29	85	10	114	2	202	29	16	64	90	0
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23	0	0	1	0	0	0	0	0	1	0	0	0	0
24	0	0	1	0	0	0	0	0	1	0	0	0	0
25	12	0	6	2	50	4	3	157	0	1	35	25	3
26	0	0	2	0	2	0	3	0	1	3	23	0	0
27	1	0	2	0	9	0	0	0	0	0	43	2	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	3	0	2	0	0	0	3	5
30	0	2	4	1	20	12	5	0	12	19	2	12	0
31	0	7	3	0	8	2	0	1	0	18	0	10	0
32	0	0	1	0	0	0	0	0	0	0	0	0	0
33	0	0	1	0	0	0	0	0	0	0	0	0	0
34	0	2	0	1	0	2	2	0	0	3	0	0	0
35	2	0	0	8	12	56	3	0	3	0	0	4	0
36	0	41	41	21	15	21	19	1	4	30	3	64	0
37	15	31	0	0	0	0	10	0	1	0	0	0	0
38	15	5	9	17	19	20	21	4	22	55	16	6	0
39	0	1	0	0	6	0	0	0	0	1	0	1	0
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41	0	0	1	5	15	0	14	0	8	41	6	3	0
42	4	0	3	1	0	0	1	3	1	2	1	0	0
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44	0	0	4	8	23	20	20	0	6	24	10	9	0
45	1	1	1	1	10	21	33	0	2	3	7	0	0
46	0	7	3	1	1	4	0	0	2	4	0	2	0
47	4	27	44	25	20	17	18	0	18	81	1	23	0
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50	0	0	0	0	18	0	0	0	0	0	0	2	0
51													
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	T1-544	T1-545	T1-553	T1-556	T1-562	T1-565	T1-549	T1-550	T1-600	T1-605	T1-609	T1-610	T1-612
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6	0	0	0	0	12	2	0	6	0	5	0	69	28
7	9	0	0	0	1	0	0	5	0	0	0	0	0
8	0	0	0	0	0	0	0	0	1	0	0	2	5
9	1	0	0	0	2	3	2	2	1	0	9	4	12
10	0	0	0	0	12	0	0	5	0	0	0	2	0
11	0	0	0	0	2	3	0	0	0	0	0	0	0
12	0	0	0	3	4	38	0	0	0	0	0	0	0
13	0	0	0	25	0	0	0	0	0	8	0	0	0
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15	3	9	0	2	8	2	1	2	10	30	0	0	5
16	0	0	0	4	1	13	0	3	8	1	4	4	5
17	0	0	0	11	0	14	0	0	13	1	7	2	3
18	0	0	0	0	0	9	0	0	1	0	0	0	5
19	0	0	0	0	0	0	0	0	0	0	0	0	0
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23	0	0	0	0	2	0	38	0	0	1	0	0	11
24	0	0	0	0	9	0	687	0	0	1	0	3	86
25	1	0	0	4	2	6	0	0	0	9	0	1	13
26	0	0	0	0	2	15	0	0	0	0	0	0	49
27	11	0	0	43	8	87	1	0	99	7	80	27	308
28	14	0	1	101	29	146	3	0	135	15	113	49	413
29	1	0	0	2	10	74	0	0	0	10	9	131	0
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31	0	0	0	0	0	9	1	0	0	3	1	0	2
32	11	44	17	8	3	5	23	15	19	4	12	2	0
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35	0	0	0	0	3	0	0	0	0	5	2	0	0
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43	6	0	0	3	4	0	0	2	4	10	6	0	2
44	18	0	0	0	31	6	0	0	0	2	0	23	7
45	0	0	0	3	27	11	0	0	0	0	0	44	8
46	0	0	0	0	31	6	0	0	0	1	0	57	9
47	0	0	0	1	3	4	0	0	0	1	6	0	5
48	2	1	4	23	1	74	38	4	170	2	39	1	77
49	0	0	0	5	0	7	2	0	4	0	0	0	1
50	0	0	0	0	0	0	13	0	0	0	0	0	3
51	0	0	1	0	0	0	4	0	0	0	0	0	0
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53	0	31	0	6	3	31	1	0	59	145	27	5	0

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2	12	0	0	1	0	0	5	8	2	0	2	0	0
3	0	0	0	1	1	2	0	0	11	0	3	0	1
4	0	0	0	0	0	1	0	0	0	5	0	0	11
5	0	0	0	20	0	5	0	0	0	2	0	0	1
6	0	0	0	0	0	0	1	23	0	5	0	0	0
7													
8	34	0	0	15	10	1	55	109	23	18	27	0	4
9	0	0	0	0	1	0	7	7	1	10	1	0	0
10	0	0	0	0	29	0	1	0	0	0	2	2	0
11	0	0	0	0	11	0	5	0	0	3	0	0	0
12	0	0	0	0	0	0	1	0	0	0	0	0	0
13	2	0	1	0	0	1	10	0	0	0	0	0	5
14	0	0	0	15	21	3	0	0	1	17	0	0	6
15	0	0	0	2	3	6	0	0	0	4	2	0	6
16	0	0	0	10	7	0	0	0	0	6	0	0	0
17	0	0	0	0	0	0	5	4	0	7	0	0	1
18	1	0	0	0	6	2	15	23	0	0	0	0	3
19	0	0	0	0	0	0	0	0	0	2	7	0	19
20	1	0	0	19	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	1	6	19	0	4	0	0	1
22	0	0	0	0	1	0	0	1	0	0	1	0	5
23	0	0	0	1	0	0	0	0	0	0	0	0	2
24	0	0	0	5	0	0	0	0	4	3	1	0	1
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27	4	0	0	12	0	0	2	0	49	1	38	0	0
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29	12	0	3	1	3	10	0	1	2	3	6	0	0
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31	0	0	0	0	0	1	2	0	13	3	0	0	14
32	0	0	0	0	0	1	0	0	0	0	0	1	0
33	0	0	0	6	0	0	0	0	0	0	3	0	1
34	1	0	0	15	0	0	0	18	14	1	18	2	3
35	2	0	0	6	4	5	4	5	5	3	8	1	1
36	16	3	2	7	0	0	0	0	1	9	0	0	19
37	0	0	0	0	1	0	2	0	1	0	0	0	0
38	0	0	0	0	0	0	0	0	0	0	0	0	0
39	0	2	0	16	35	38	2	2	23	5	36	11	7
40	0	0	0	3	7	0	0	0	1	3	3	0	4
41	2	0	3	9	0	3	0	0	5	0	22	0	9
42	0	5	0	0	0	5	0	0	0	5	55	0	16
43	0	2	0	0	1	5	2	1	2	0	2	2	0
44	3	11	2	0	10	4	0	5	4	1	8	0	0
45	0	0	0	0	0	1	5	0	2	0	0	0	1
46	0	0	0	0	0	4	0	0	0	0	0	0	0
47	0	0	0	0	0	4	0	0	0	0	0	0	0
48	0	133	0	8	18	1	94	7	0	23	13	0	2
49	0	16	0	2	29	114	11	1	0	72	0	0	2
50	0	8	17	0	0	0	2	0	2	0	1	0	0
51	6	0	4	2	1	1	7	8	2	1	5	0	4
52	2	0	4	0	0	0	2	0	8	3	0	0	0
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54	0	0	0	0	21	4	2	4	9	6	0	0	4
55	0	0	0	10	1	0	4	1	2	1	2	0	1
56	0	0	1	0	4	25	0	0	0	0	0	0	9
57	0	0	0	0	39	0	0	0	0	0	0	0	0
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59	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0

1													
2	0	0	0	0	0	1	0	0	0	4	0	3	0
3	0	16	1	0	105	0	0	0	0	0	0	53	3
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6	13	0	1	0	0	0	0	0	0	0	0	0	0
7	9	0	0	0	0	1	1	0	4	4	0	0	15
8	0	0	0	0	3	0	1	0	0	0	2	9	11
9	0	0	0	0	0	0	0	0	0	0	0	0	0
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13	1	0	0	0	0	663	0	0	6	1	1	0	0
14	102	0	0	7	3	98	8	13	14	77	80	35	228
15	2	1	0	1	3	2	2	7	0	0	6	16	2
16	0	0	0	0	0	62	0	0	0	6	0	0	0
17	0	3	0	0	2	3	0	0	5	1	1	61	0
18	10	0	3	3	6	2	2	14	6	2	4	3	1
19	0	0	0	0	0	0	93	0	0	0	0	0	0
20	5	2	0	0	0	0	137	2	3	5	0	34	140
21	366	212	7	128	140	198	66	397	186	218	172	312	17
22	2	0	0	3	0	0	0	1	0	2	0	5	0
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24	9	18	0	10	0	1	7	0	4	3	0	0	3
25	0	8	0	1	0	1	0	0	1	4	0	0	5
26	0	56	0	0	0	0	0	0	5	4	0	23	5
27	0	0	1	5	0	0	0	0	43	124	10	0	43
28	0	1	6	0	0	0	0	0	0	0	0	0	0
29	8	36	25	10	0	7	0	5	0	1	7	24	0
30	0	0	0	0	2	0	0	0	0	2	0	4	5
31	0	0	0	0	0	2	0	0	0	0	0	34	0
32	0	0	0	0	1	2	0	0	0	0	0	6	0
33	0	9	0	19	1	8	0	0	0	4	2	40	2
34	2	264	0	89	18	130	0	0	19	186	23	880	157
35	0	5	0	2	0	1	0	0	0	2	2	1	5
36	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	3	0	6	1	20	0	0	0	63	3	57	16
38	3	12	1	23	0	28	1	0	11	4	4	13	9
39	0	0	0	0	10	31	18	1	0	1	0	1	0
40	2	9	0	3	0	3	3	21	8	0	2	7	1
41	2	0	0	18	4	5	6	0	2	4	0	3	7
42	1	0	0	8	1	7	5	0	2	6	0	1	2
43	0	0	0	0	0	1	0	0	0	93	0	0	0
44	0	8	0	0	0	2	0	0	0	36	0	0	16
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46	0	1	0	7	0	1	18	3	7	17	8	0	0
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52	24	5	2	215	35	134	152	9	8	183	4	133	120
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54	0	0	0	6	0	0	0	0	1	3	0	0	0

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2	0	0	0	1	0	0	0	0	1	3	0	0	0
3	0	0	0	1	0	0	0	0	1	1	6	0	1
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7	6	0	12	136	23	78	0	1	438	134	9	62	415
8	0	0	0	6	0	0	0	0	14	0	2	0	3
9													
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11	57	3	0	41	170	473	14	0	15	102	109	126	805
12	0	0	0	3	1	2	0	0	0	3	11	2	8
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17	0	0	0	0	0	0	0	0	0	0	0	0	1
18	0	3	1	2	15	1	2	7	4	9	0	0	0
19	14	11	4	4	46	0	7	14	2	3	2	1	3
20	137	121	104	56	860	34	248	312	52	71	47	7	19
21	0	1	0	4	6	1	5	0	1	0	0	0	1
22													
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26	1	2	0	173	10	10	0	14	4	19	26	15	0
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28	14	7	1	599	27	267	63	13	490	205	32	150	278
29	1	0	0	4	1	4	0	0	4	6	1	5	4
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34	3	0	0	73	49	179	0	0	15	69	127	77	453
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38	0	8	2	17	13	54	0	0	134	13	44	99	49
39	0	5	0	205	14	82	0	0	13	31	26	47	39
40	0												
41	0	233	0	26	1	292	0	0	0	54	0	1232	0
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43	8	0	11	0	0	0	14	32	4	0	1	0	0
44													
45	2	1	1	4	0	1	0	3	0	2	5	0	1
46	51	79	100	98	38	161	31	110	7	38	288	43	17
47	1	0	0	1	0	2	0	0	0	0	0	0	0
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52													
53	60	0	2122	9	0	0	23	219	9	3	39	0	7
54	3	0	44	0	0	0	0	7	0	0	0	0	0
55	5	10	21	0	3	7	12	13	5	12	8	1	4
56	3	8	6	1	0	0	1	4	1	2	1	0	1
57	0	3	0	0	0	0	2	5	2	0	0	0	0
58	0	1	0	0	0	0	16	0	4	1	0	0	0
59	3	11	28	1	0	0	31	29	4	8	14	0	3
60	4	5	4	0	0	0	3	3	0	2	0	0	0

1													
2	3	8	3	0	0	0	8	3	1	2	4	1	0
3	0	0	0	3	0	0	3	1	1	3	1	0	5
4	519	998	781	26	192	151	1125	1437	188	221	322	155	153
5	4	10	15	0	4	0	6	10	4	2	3	1	2
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8	0	0	0	11	0	0	2	1	5	6	8	0	8
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21	26	0	5	0	0	0	0	2	22	0	19	0	0
22	1	0	0	0	0	0	20	2	0	0	0	0	0
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24	0	0	0	2	0	1	14	0	21	9	3	0	1
25	1	0	10	2	1	0	5	3	2	13	6	1	1
26	0	1	6	0	0	0	0	1	0	1	0	0	0
27	5	0	10	1	1	0	1	3	0	0	1	1	1
28	1	0	5	0	0	3	5	1	0	5	8	1	3
29	23	8	59	3	1	1	32	36	21	28	11	3	3
30	27	8	68	1	1	2	41	56	13	24	11	4	0
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33	0	1	7	0	1	0	3	1	2	3	8	0	0
34	4	1	4	4	2	1	2	3	1	1	1	3	2
35	0	1	5	0	0	1	2	1	0	0	2	0	1
36	0	4	0	3	0	0	0	0	0	0	0	0	1
37	0	4	0	0	0	2	0	0	1	0	0	0	0
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39	1	3	6	0	0	1	7	1	1	4	4	0	0
40	1	0	1	0	3	0	5	1	1	0	3	0	0
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42	12	15	16	0	0	0	9	16	1	4	13	0	2
43	0	1	3	0	2	0	0	4	0	0	8	1	1
44	1451	749	4704	505	364	307	1033	2972	610	1002	2987	342	888
45	0	1	0	0	0	0	3	3	1	3	0	1	1
46	2	0	0	0	0	0	0	11	0	0	0	0	0
47	0	3	2	0	0	0	17	5	2	0	2	0	0
48	2	5	2	0	2	0	3	1	1	1	1	0	0
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53	3	0	0	0	0	0	0	4	0	0	0	0	0
54	53	40	23	0	3	3	42	61	18	1	13	0	1
55	13	1	0	3	0	0	1	3	0	0	9	0	4

1													
2	1	3	1	0	0	0	0	7	1	0	0	0	0
3	1	1	1	0	0	0	1	8	0	0	2	0	0
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5	2	3	0	0	0	0	2	3	0	0	1	0	0
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7													
8	251	223	508	41	73	38	353	688	105	96	309	12	76
9	2	3	0	0	2	0	5	17	2	0	0	0	0
10	93	46	49	2	5	1	121	343	16	7	32	0	0
11	1072	640	1344	63	138	54	1078	2777	337	257	421	29	58
12	0	0	5	0	0	0	0	0	0	0	0	0	0
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16	2	0	3	0	0	0	5	1	0	0	2	0	0
17	1	0	2	0	0	0	0	2	1	2	1	2	0
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19	1	2	4	0	0	0	1	1	2	0	3	0	1
20	4	2	11	2	1	0	1	6	1	1	5	0	2
21													
22	17	13	47	4	2	4	17	32	4	6	16	3	3
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25	4	12	11	3	2	0	7	24	4	6	13	0	1
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34	0	52	0	116	114	25	11	4	78	40	3	21	156
35	0	1	0	1	1	0	0	0	1	1	0	0	2
36	0	20	14	5	0	0	3	10	11	6	7	0	2
37	0	5	1	0	0	0	3	3	0	0	1	0	0
38	1	8	2	0	0	0	0	3	0	2	1	0	0
39	52	11	28	1	0	0	1	72	11	0	155	0	0
40	10	11	7	1	0	3	0	20	4	2	48	0	0
41													
42	660	2168	513	136	239	392	597	638	151	366	372	111	118
43	1	7	0	1	1	1	3	2	0	0	1	0	0
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45	6	15	9	2	1	4	1	4	3	11	10	7	0
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47	1	0	9	1	0	0	3	13	1	5	13	0	1
48	0	0	1	0	0	0	0	0	2	2	1	0	0
49													
50	129	154	271	96	27	27	166	379	114	279	490	17	1
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53	3	4	0	7	63	1	4	0	7	397	107	12	168
54	0	0	0	1	0	0	1	0	3	3	0	0	0
55	0	3	0	0	3	0	10	1	15	2	0	0	0
56	0	1	0	0	0	0	6	1	7	0	0	0	0
57	0	0	0	5	0	0	5	0	18	3	0	0	3

1													
2	12	85	18	260	613	128	1340	63	1796	429	73	18	74
3	0	0	0	2	1	2	0	0	5	1	0	0	0
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7	0	0	0	0	0	0	0	0	0	0	0	2	1
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9	0	0	0	19	0	110	0	0	5	8	0	0	7
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13	20	49	0	107	34	42	57	25	13	117	149	109	129
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15	0	0	0	8	1	13	0	0	0	0	0	0	0
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17	0	0	5	4	0	2	2	0	0	3	2	1	6
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20	0	6	5	0	0	1	4	6	0	4	0	0	1
21	2	0	0	0	0	0	2	4	1	1	1	0	0
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23	5	8	28	0	0	0	13	28	11	5	21	0	2
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26	0	10	4	0	0	1	6	4	3	0	2	0	1
27	0	1	1	0	1	0	1	2	0	1	0	1	2
28	368	670	470	59	276	245	531	686	197	253	400	81	350
29	33	88	55	2	44	5	14	12	38	18	28	8	4
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31	111	218	88	1	46	2	38	77	36	28	65	2	12
32	1	9	80	8	1	1	1	13	4	5	4	0	2
33	1	8	5	0	1	2	1	1	0	4	3	0	4
34	3	16	6	30	2	2	14	48	13	14	0	33	10
35	1	1	0	0	0	3	0	0	2	0	0	0	0
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37	141	243	6	30	164	262	5	160	190	4	6	86	17
38	0	0	0	0	0	2	0	1	4	1	0	0	0
39	3	5	1	0	8	0	0	1	1	0	0	0	0
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41	24	0	13	5	0	3	29	65	0	280	9	1	25
42	1	0	1	0	0	0	3	0	0	6	1	0	1
43	0	0	0	45	0	3	17	0	0	360	13	0	31
44	0	6	6	0	0	0	0	11	0	1	0	0	0
45	4	7	9	1	0	2	1	11	1	5	0	0	0
46	0	0	9	0	0	1	0	2	1	2	0	0	0
47	0	0	0	0	0	0	5	0	2	1	0	0	0
48	0	4	6	0	0	0	1	4	0	1	0	0	0
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50	0	2	4	0	0	0	0	5	0	2	0	0	0
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53	6	10	6	1	0	2	1	11	0	4	1	0	0

1													
2	1713	2065	1523	36	13	557	120	2619	142	463	169	45	8
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4	0	0	0	6	5	3	1	10	5	139	0	9	92
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6	0	7	0	7	0	16	0	79	0	11	21	9	5
7	0	1	1	10	1	1	12	0	6	2	0	5	6
8	1	6	1	8	5	6	17	2	9	25	0	5	76
9	1	3	29	20	4	1	461	19	10	24	4	11	13
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11	0	0	0	1	0	0	0	0	1	7	0	2	7
12	0	0	0	1	3	0	3	0	0	1	0	2	1
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14	30	36	250	78	11	3	2055	116	134	56	5	35	16
15	1	1	6	2	0	0	71	1	9	3	0	1	1
16	0	1	0	0	0	0	6	1	0	1	0	0	0
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19	1	0	2	1	0	0	2	1	0	0	0	0	0
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21	0	1	6	6	0	0	31	5	7	2	0	0	1
22	0	0	0	0	0	0	19	2	2	0	2	0	0
23	0	0	1	0	0	0	5	0	0	0	0	0	0
24	0	0	1	0	0	0	5	0	0	0	0	0	0
25	5	0	0	1	0	0	0	0	10	0	1	0	3
26	3640	2	127	74	57	1	1	89	2533	4	604	11	75
27	15	0	1	0	2	0	0	0	22	0	1	0	1
28	0	0	0	0	0	0	0	0	34	0	1	0	0
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30	10	0	3	0	0	0	0	1	15	0	11	0	0
31	0	6	2	0	6	0	0	0	0	10	2	0	15
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34	4	35	11	6	0	1	53	9	1	14	7	116	57
35	0	3	0	0	0	0	0	0	1	0	0	4	3
36	0	1	0	2	0	0	0	0	1	0	12	0	2
37	0	28	0	24	2	5	0	1	32	16	169	13	45
38	0	0	0	168	0	9	0	0	0	20	0	0	0
39	0	0	0	168	0	9	0	0	0	20	0	0	0
40	43	24	34	137	57	99	570	4	36	197	43	22	55
41	0	3	0	6	0	1	3	0	7	10	63	6	35
42	1	0	1	0	0	0	1	0	0	1	0	1	0
43	0	0	0	2	0	0	5	0	0	2	9	0	4
44	0	0	0	0	0	0	0	0	0	2	0	0	0
45	0	0	0	0	0	0	0	0	0	1	3	0	0
46	0	0	0	0	0	0	0	0	0	1	3	0	0
47	0	0	0	0	0	0	0	0	0	9	1	0	0
48	0	134	0	130	10	43	0	0	42	233	1	147	390
49	0	733	0	106	0	1	0	0	2	8	1	1	0
50	0	0	0	11	4	80	0	0	0	63	0	199	83
51	0	0	5	1	0	0	4	4	1	0	2	0	0
52	0	0	5	1	0	0	4	4	1	0	2	0	0
53	33	91	244	0	37	1	35	152	0	4	69	129	46
54	281	43	60	93	423	142	155	418	265	166	213	23	14
55	0	0	0	0	1	2	2	1	1	1	0	0	0
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57	0	4	0	178	4	5	0	0	0	5	1	0	141
58	2	200	16	382	10	133	0	0	381	105	65	165	265
59	0	0	0	0	0	0	0	0	0	0	0	0	0
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1													
2	0	1	0	34	5	1	2	3	10	47	5	20	55
3	0	0	0	0	0	0	2	0	2	0	0	0	0
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8	0	0	0	0	0	1	0	2	0	0	2	0	0
9													
10	2	0	0	2	0	19	20	1	11	13	17	0	1
11	37	4	26	5	95	42	47	58	4	6	28	16	0
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14	83	128	2	174	37	135	62	98	116	35	45	131	96
15	0	15	0	0	1	0	0	0	9	16	0	0	0
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17	6	11	4	1	2	3	24	64	0	1	11	7	1
18	1	178	4	33	68	28	121	0	16	61	34	35	1
19	0	3	0	0	6	1	0	0	0	6	0	0	0
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21													
22	2	48	0	3	48	41	3	1	68	36	23	101	128
23	5	10	0	19	17	9	0	0	11	102	27	17	44
24	0	0	0	6	14	103	0	0	6	260	57	14	356
25	0	0	0	0	0	1	1	0	0	0	1	2	0
26	0	1	8	0	0	1	2	3	2	0	2	1	0
27	0	0	1	0	0	3	1	0	3	0	1	1	2
28													
29	903	688	463	32	452	1501	1150	1025	186	448	521	350	114
30	2	1	2	0	3	1	1	2	0	1	0	0	0
31	7	2	2	0	0	4	2	4	1	1	0	1	0
32	0	0	0	2	0	0	3	0	0	0	11	0	0
33	0	10	1	35	0	1	1	0	0	0	0	0	0
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37	0	0	0	6	1	0	3	0	0	0	15	0	5
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39	40	33	0	0	0	0	0	9	3	0	0	1	1
40	1	163	0	1	15	3	2	0	7	88	26	0	121
41	0	0	0	0	0	0	0	0	0	0	0	1	0
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45	0	19	0	72	2	143	2	0	0	0	127	0	0
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47	5	21	1	9	7	5	0	5	15	43	1	61	293
48	0	0	0	0	0	0	0	0	1	2	0	0	6
49	0	0	0	0	0	0	10	0	8	26	1	4	151
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52	0	2	0	15	1	5	0	0	15	9	4	19	12
53	21	40	0	96	17	77	2	0	122	84	54	323	169
54	5	11	32	19	7	4	36	21	6	9	36	24	48
55	1	7	1	3	0	6	2	1	6	4	4	5	5
56	0	2	0	2	0	3	0	0	0	2	0	7	6

1													
2	0	5	0	2	0	3	1	4	1	4	2	5	3
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7	4	16	0	38	4	19	0	0	50	30	22	107	69
8	0	6	0	3	0	0	0	7	3	4	9	6	5
9													
10	28	30	76	10	8	34	410	74	28	11	39	83	59
11	0	10	7	0	0	0	0	2	0	0	0	44	0
12	0	3	0	0	0	1	0	0	0	0	0	0	0
13	3	181	4	0	0	0	0	1	2	0	2	8	0
14	1	6	0	0	0	0	0	0	0	0	0	2	0
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16	0	69	8	17	7	58	63	0	10	364	145	272	285
17	0	0	0	0	0	1	1	0	0	3	1	0	1
18	6	0	0	5	0	5	0	0	0	0	0	0	0
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20	0	0	2	0	0	0	0	0	0	0	0	0	0
21	0	0	2	0	0	0	0	0	0	0	0	0	0
22													
23	57	20	6	47	16	33	68	84	70	52	46	51	166
24	37	2	0	8	9	142	11	0	37	45	51	270	141
25	1	0	0	0	0	0	0	0	0	0	4	3	1
26	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	3	3	11	1	0	0	4	0	1	21
28	0	0	0	0	0	0	0	0	0	1	0	2	1
29													
30	130	34	28	102	156	131	252	165	134	200	95	149	236
31	3	1	0	8	22	4	6	3	0	14	1	2	7
32	0	0	0	0	0	0	0	0	0	4	0	1	0
33	35	40	4	3	17	15	19	28	3	12	11	5	8
34	74	56	30	37	15	359	44	192	64	68	73	236	95
35	2	2	1	2	0	6	3	7	1	2	2	11	6
36	0	0	0	0	8	0	0	0	0	1	0	0	1
37	0	3	0	0	1	17	0	0	1	15	0	0	5
38	0	1	0	1	2	40	0	2	19	13	0	110	114
39	3	13	1	12	0	11	0	3	3	6	7	30	10
40	0	0	0	3	0	0	0	6	2	0	3	2	0
41													
42	61	297	1	15	2	160	15	15	43	33	10	5	68
43	0	0	0	1	0	3	0	0	1	2	0	0	4
44	0	17	0	1	0	218	0	0	0	0	0	2	165
45													
46	12	2	0	5	14	46	0	0	2	44	71	214	123
47	0	0	0	0	0	0	0	0	0	0	0	123	11
48	70	0	0	62	1	137	0	25	5	32	26	0	0
49	3	0	0	2	0	4	0	1	0	2	0	0	0
50	1	0	0	21	76	7	9	11	2	31	1	0	32
51													
52	11	20	1	5	1	42	42	37	7	25	5	0	9
53	0	0	4	7	5	59	5	0	56	39	52	99	36
54	0	0	0	3	4	3	0	0	0	5	1	3	7
55	0	18	1	37	18	52	5	0	18	97	2	0	15
56	0	0	0	0	19	3	0	0	0	5	13	88	18
57	9	7	0	10	1	52	5	35	6	1	9	61	57
58	0	0	0	2	2	17	0	0	0	23	2	231	7
59	6	15	0	4	3	22	15	33	3	16	5	14	17
60	0	3	0	1	1	1	7	1	2	1	2	2	0

1													
2	5	13	0	1	0	0	10	0	38	2	0	1	7
3	0	0	0	2	0	1	0	0	0	6	0	0	0
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7	85	17	17	915	83	146	1	23	57	33	255	7	107
8	0	0	0	0	0	0	0	0	2	0	0	0	0
9	2	0	0	0	1	0	1	0	0	0	0	0	0
10	149	1	0	3	9	4	124	43	1	1	6	1	10
11	3	0	0	0	0	0	2	1	0	1	0	0	0
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13	25	46	0	0	0	0	0	0	0	0	2	0	0
14	19	24	2	0	0	0	0	0	0	4	1	0	0
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16	29	4	0	0	0	2	0	1	0	0	1	2	0
17	11	1	1	0	0	0	0	0	0	0	0	4	0
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20	0	5	12	0	0	0	1	0	0	3	0	0	0
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22	0	3	12	0	0	0	0	0	1	0	0	1	0
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24	57	1238	3338	137	21	1	433	8	7	151	27	374	116
25	0	1	21	0	0	0	1	0	0	0	0	0	0
26	1	27	83	1	0	0	9	0	1	1	7	10	2
27	0	0	0	0	1	0	2	3	191	201	3	36	50
28	0	0	0	0	1	3	0	0	0	0	1	5	1
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31	12	14	1	6	5	23	11	58	21	14	24	19	30
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36	1	0	1	9	0	0	5	10	0	0	7	0	0
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40	11	2	0	7	12	340	2	1	0	79	28	29	29
41	0	0	0	0	0	0	0	0	0	0	0	8	8
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45	0	6	0	0	0	0	0	0	0	0	0	524	152
46	0	0	0	0	0	0	0	0	0	71	1	12	85
47	13	0	0	0	17	5	0	15	13	24	0	42	44
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49	0	4	3	5	45	38	0	2	10	8	15	51	46
50	0	8	0	0	0	0	0	0	0	0	0	0	0
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52	0	0	0	1	267	313	0	0	0	0	0	341	7

1													
2	0	0	0	1	0	0	1	0	0	0	0	0	35
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6	0	0	0	0	0	0	4	0	101	0	0	0	9
7	48	0	0	0	0	0	0	0	0	0	0	0	0
8	0	2	3	1526	11	40	0	0	3	9	512	4	0
9	0	0	0	0	0	0	0	0	0	0	3	0	0
10	31	8	0	3	5	35	10	6	0	2	10	10	8
11	0	0	0	5	26	10	1	4	5	6	3	0	8
12	0	0	0	0	0	5	1	0	0	0	0	0	0
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14	204	80	320	63	147	36	30	5	52	265	194	75	36
15	38	427	190	481	279	179	259	3	147	464	432	579	339
16	0	0	0	3	0	2	0	0	3	4	9	2	0
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18	63	631	335	391	20	66	99	1	521	1512	1306	548	56
19	4	5	15	8	1	0	5	0	7	33	17	6	3
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22	151	154	245	185	147	64	91	1	83	301	235	219	124
23	1	0	0	1	0	4	0	0	0	0	5	6	3
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26	0	0	0	0	7	1	0	5	0	0	2	16	3
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29	1	0	0	0	0	0	0	0	0	15	0	0	0
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31	0	0	0	1	12	1	0	0	0	1	1	0	23
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36	0	0	0	0	4	1	1	0	0	0	0	0	10
37	0	0	0	20	49	44	0	0	3	14	2	0	3
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39	0	0	0	6	1	1	0	0	2	1	3	2	0
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41	0	0	1	7	0	5	0	0	0	19	0	0	0
42	0	0	0	10	0	18	0	0	3	24	1	6	26
43	0	0	0	4	5	5	0	0	0	2	0	6	5
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45	11	0	0	11	5	12	3	0	5	13	27	19	16
46	0	0	0	0	6	18	1	0	0	0	0	18	0
47	0	0	0	5	8	8	9	4	14	9	22	30	34
48	0	0	0	1	0	17	0	2	0	0	0	6	1
49	0	0	0	2	10	8	1	0	0	0	1	5	7
50	0	0	0	14	2	19	2	0	7	4	8	65	19
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53	0	0	0	3	27	1	0	0	1	0	1	2	1

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7	0	0	0	6	29	110	0	0	0	7	0	75	32
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14	0	0	0	11	29	72	0	0	0	68	0	0	18
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16	0	0	0	0	16	26	0	0	0	2	19	5	4
17	0	0	0	10	0	1	0	0	0	0	0	0	0
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19	0	0	0	1	0	0	0	0	0	0	0	0	0
20	2	0	0	1	4	232	0	0	2	22	11	30	115
21	0	0	0	0	24	187	0	0	0	46	2	0	33
22	2	0	0	0	0	11	0	0	0	0	0	1	17
23	0	0	0	0	0	2	0	0	0	2	2	5	3
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25	0	0	0	0	0	11	0	0	0	0	0	2	10
26	0	0	0	0	1	4	0	0	0	3	0	0	0
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29	0	6	0	2	3	20	0	0	0	2	9	12	17
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32	0	6	0	0	0	3	0	0	0	0	0	0	1
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36	0	0	0	0	0	6	1	0	0	0	0	3	15
37	0	0	0	2	2	0	0	0	0	0	5	1	3
38	1	0	0	2	3	8	0	1	0	0	0	2	10
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40	7	34	4	0	0	3	0	2	5	0	0	57	16
41	3	0	0	0	0	0	0	0	1	4	0	1	0
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43	90	1	0	4	1	7	5	24	2	8	22	1	5
44	1	0	0	0	5	6	0	0	0	0	0	2	1
45	0	0	0	0	5	2	0	0	0	0	0	0	0
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49	0	0	0	0	39	33	1	0	1	0	2	10	0
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51	4	13	16	19	67	120	132	19	34	21	112	58	29
52	5	1	3	0	31	33	32	21	4	5	0	22	16
53	0	0	1	0	0	2	4	0	0	0	0	0	0
54	0	0	0	0	6	6	6	5	1	3	0	3	2

1					9	0	1	1	0	1	6	0	2
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3	8	54	1	16	788	136	249	36	42	12	170	123	81
4	0	0	0	0	53	6	5	1	1	2	6	5	6
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9	41	2	1	29	6	6	23	0	6	10	87	0	0
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13	70	80	35	98	19	5	270	3	1	90	1	2	4
14	2	4	4	1	2	0	0	2	10	2	0	1	0
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16	51	93	47	4	25	9	18	126	428	135	50	12	3
17	64	385	126	20	25	44	38	388	421	126	55	11	20
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19	1	0	0	2	3	1	6	3	8	3	2	1	12
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22	0	3	7	0	3	7	1	5	0	1	0	0	50
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25	20	14	1	0	37	26	2	14	14	23	0	10	70
26	1	2	0	1	0	3	0	11	3	0	0	13	10
27	1	0	0	5	4	9	1	14	11	1	2	2	4
28	1	1	0	0	0	0	0	2	2	0	0	9	6
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31	0	0	0	1	0	2	0	0	10	0	0	0	0
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33	84	342	2	23	34	110	22	23	10	84	90	138	18
34	7	10	0	5	6	10	2	8	2	21	13	5	5
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36	11	2	0	25	7	15	64	27	38	15	11	2	21
37	1	0	0	2	5	1	3	4	4	0	0	0	0
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41	0	0	0	1	29	5	0	0	0	2	7	0	11
42	3	0	0	0	14	0	0	0	0	0	0	0	3
43	0	0	0	2	1	31	0	0	0	0	1	1	0
44	5	0	0	2	7	4	0	1	14	8	6	14	14
45	1	0	0	4	0	8	1	3	20	20	6	8	9
46	0	0	0	3	0	1	0	0	2	4	1	2	3
47	0	0	0	0	0	65	16	0	0	3	0	0	12
48	5	2	0	0	0	1	6	2	0	1	0	1	0
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50	0	1	0	3	1	0	0	0	0	8	0	9	18
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53	1	9	1	0	1	0	7	0	0	5	0	1	6

1													
2	0	0	0	0	0	0	3	6	0	0	0	0	0
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8	7	0	0	3	0	0	2	22	0	5	0	0	0
9	64	0	0	32	3	2	27	59	20	16	52	0	15
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15	0	0	0	2	1	0	0	0	0	1	6	20	12
16	0	0	0	0	2	0	0	0	0	0	0	0	1
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22	7	0	0	0	0	0	0	1	0	3	0	1	89
23	0	0	0	0	0	0	2	0	0	0	0	1	3
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25	2	0	0	1	7	12	2	0	1	11	4	15	18
26	3	0	0	0	3	0	0	1	0	1	1	1	0
27	0	0	0	0	5	5	0	0	0	6	1	3	7
28	0	0	1	1	0	0	0	1	1	7	2	7	11
29	0	0	0	0	0	3	0	0	0	1	0	0	4
30	0	0	0	0	8	56	0	0	0	1	1	5	0
31	0	0	0	0	5	15	0	0	0	1	16	0	2
32	0	0	0	0	5	15	0	0	0	1	16	0	2
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34	2	0	0	3	1	10	0	3	2	3	4	9	11
35	0	0	0	1	1	1	0	0	0	1	0	2	24
36	0	0	0	5	0	0	0	0	0	2	0	4	6
37	0	0	0	0	0	0	3	18	0	2	3	6	0
38	1	0	0	0	27	11	0	1	0	22	4	15	32
39	12	0	0	0	0	5	0	10	0	0	3	1	0
40	0	0	0	0	4	0	0	0	0	0	2	6	1
41	0	0	0	0	4	0	0	0	0	0	2	6	1
42	33	0	0	9	17	141	4	21	11	57	45	22	67
43	2	0	0	0	3	2	5	12	5	6	2	1	1
44	0	0	1	5	64	5	2	0	4	5	1	0	58
45	0	0	0	0	0	4	0	0	0	1	0	1	11
46	0	0	0	0	0	4	0	0	0	1	0	1	11
47	0	0	0	1	10	0	0	0	0	1	1	2	24
48	15	0	0	11	42	7	0	1	8	15	0	1	5
49	26	0	0	0	0	0	5	24	0	0	0	0	2
50	0	0	0	0	2	0	0	0	0	2	0	0	23
51	55	59	2	23	76	79	48	37	9	16	40	41	160
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15	5	0	0	6	6	6	0	6	4	1	8	0	7
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27	15	21	1	36	99	36	17	2	6	31	37	517	84
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22													
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35	0	0	0	0	1	3	0	0	0	4	0	0	13
36	0	0	0	0	0	4	0	0	0	4	0	0	0
37													
38	50	55	0	7	7	23	49	217	0	9	58	351	23
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41	0	0	0	0	0	0	0	1	0	0	0	3	13
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52													
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18													
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24													
25	659	169	291	94	61	14	35	91	369	42	197	19	21
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28	239	7	168	20	48	149	357	166	112	85	601	0	16
29	46	1	5	66	0	0	5	4	16	1	7	0	29
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31	25	4	85	23	48	5	26	23	29	2	56	12	3
32	1	0	0	2	0	0	2	3	4	0	5	0	0
33													
34	122	52	79	32	18	34	47	91	118	57	27	22	12
35	16	0	0	8	2	7	27	25	5	3	2	0	15
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20	108	54	14	15	6	43	59	48	84	6	10	10	0
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36	10	77	1	27	4	11	33	1	70	5	45	2	36
37	0	0	0	0	0	1	3	0	0	8	0	1	0
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39	203	46	67	9	9	7	11	169	86	5	15	14	18
40	2	0	1	0	0	0	2	5	3	1	1	0	8
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44	0	0	0	6	82	197	0	0	0	119	75	0	96
45	25	0	0	135	46	230	1	2	25	20	26	8	141
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54	0	0	0	3	15	6	2	0	5	10	7	0	7

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6	0	1	0	15	134	169	3	0	1	40	3	85	2504
7	0	0	0	3	4	0	0	0	0	0	0	2	41
8	0	0	0	0	0	0	1	0	0	0	0	0	3
9													
10	27	0	0	12	3	3	3	5	27	1	6	0	3
11	24	0	6	33	27	24	3	6	42	2	123	1	1
12	1	5	0	0	4	1	2	2	0	0	0	0	0
13	0	1	0	0	2	0	0	1	0	0	0	0	0
14	3	0	1	8	4	0	2	6	1	0	15	0	1
15	0	0	0	0	1	0	0	0	2	1	2	4	15
16	0	0	0	2	3	2	1	0	5	0	2	6	6
17	3	0	0	35	5	2	1	0	8	1	2	1	4
18	0	1	0	38	0	1	0	0	0	0	0	0	9
19	0	0	0	0	14	3	0	0	0	0	0	2	1
20	1	0	0	0	1	1	2	0	2	0	1	4	0
21	0	0	2	0	0	0	1	1	0	0	10	0	0
22													
23	12	0	2	2	0	0	0	0	1	0	5	0	0
24	15	6	8	70	7	7	26	17	12	7	67	8	5
25	64	0	11	7	0	0	8	27	0	0	108	0	0
26	4	3	45	0	15	18	133	2	35	1	83	0	0
27	0	0	1	0	0	1	9	0	1	0	7	0	0
28	0	0	0	3	11	10	1	0	0	1	0	14	3
29	14	0	1	2	4	2	13	17	10	4	8	3	1
30	25	24	2	0	1	0	19	12	0	49	2	0	37
31	0	0	0	0	0	0	0	0	0	2	0	0	0
32	0	0	0	1	0	1	2	1	0	5	2	0	1
33	2	0	5	2	5	1	1	3	0	0	0	35	5
34	12	3	0	15	30	13	1	3	34	20	27	2	14
35	0	45	0	3	0	6	1	0	3	18	0	30	0
36	19	7	253	17	1	3	13	47	10	5	41	4	0
37	0	0	0	0	3	3	3	5	0	13	1	0	2
38	10	2	69	6	0	1	9	30	6	12	9	1	2
39	1	2	2	5	0	0	0	1	0	0	2	0	0
40	78	2	49	5	11	2	30	23	39	8	42	0	2
41	37	9	5	0	3	1	20	8	10	8	36	0	7
42	0	1	0	10	1	2	0	0	1	2	9	2	0
43	4	9	0	81	8	26	8	10	34	50	52	7	12
44	2	0	2	15	0	1	4	10	11	0	61	0	2
45	0	0	0	0	0	0	11	2	0	0	0	0	5
46	0	0	0	0	0	0	8	3	0	0	0	0	13
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	T1-618	T1-619	T1-636	T1-640	T1-641	T1-642	T1-602	T1-655	T1-659	T1-663	T1-664	T2-504	T2-506
5	0	0	0	0	0	0	2	0	0	0	0	1	0
6	0	9	0	6	2	0	0	0	4	2	2	8	0
7	0	0	13	0	1	1	3	0	0	23	0	0	6
8	0	3	1	0	3	0	2	0	0	0	1	1	8
9	3	15	0	0	17	0	30	0	0	0	13	3	58
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11	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0
13	4	19	0	1	0	0	0	0	27	0	0	0	0
14	0	0	0	0	0	0	0	0	3	0	0	0	0
15	11	44	5	2	0	1	8	2	1	1	13	2	5
16	0	3	0	0	4	5	0	3	76	4	3	1	0
17	13	33	5	5	7	1	18	1	0	0	5	1	1
18	7	53	5	4	0	0	10	1	1	0	9	0	2
19	0	2	0	2	0	0	0	0	1	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	7
21	0	0	0	0	0	0	0	0	0	0	0	0	0
22	18	27	35	32	25	14	0	0	5	0	3	55	2
23	1	0	0	0	0	0	0	0	0	0	0	1	0
24	0	0	0	0	0	0	2	0	0	0	0	0	0
25	0	0	0	0	0	1	4	0	0	0	1	0	0
26	0	0	0	0	0	4	21	1	0	0	1	2	9
27	167	8	0	91	0	0	0	0	15	0	0	1	1
28	0	0	0	0	0	0	0	0	0	0	1	0	0
29	92	19	13	21	67	0	0	19	1	1	52	23	5
30	145	18	14	50	84	2	2	34	39	0	137	24	3
31	0	164	0	0	52	32	0	0	13	0	19	6	34
32	0	0	0	6	3	4	0	0	0	0	0	8	0
33	0	0	0	0	1	3	1	0	2	0	1	0	9
34	13	0	60	30	1	3	9	3	2	42	0	24	16
35	2	0	0	0	8	0	0	2	0	0	15	3	0
36	0	0	15	8	0	0	2	0	0	13	0	9	0
37	0	0	0	7	0	0	0	0	0	0	4	57	0
38	0	0	0	0	0	9	0	0	0	0	0	0	0
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41	51	2	0	95	0	1	0	0	1	0	12	1	0
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43	5	1	0	6	5	3	0	0	0	0	0	2	6
44	3	7	0	3	3	1	2	0	1	0	0	0	0
45	0	0	1	2	0	0	1	0	2	0	0	2	0
46	0	43	0	0	10	0	0	0	3	0	1	0	4
47	2	70	0	0	11	1	0	1	7	0	2	0	7
48	0	70	0	0	19	1	0	0	16	0	5	0	15
49	0	8	0	0	3	0	0	0	9	0	0	0	0
50	16	16	4	25	3	4	0	0	0	0	3	0	2
51	1	0	0	0	3	0	0	0	1	0	0	0	0
52	0	0	0	1	0	0	0	1	0	0	1	1	1
53	0	0	0	0	0	0	1	0	0	0	0	0	1
54	0	0	0	0	0	0	1	0	0	0	0	0	1
55	133	0	8	0	0	0	2	0	0	0	0	0	10
56	8	1	9	1	0	21	2	138	5	0	0	13	43

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2	0	0	4	10	0	0	2	0	0	0	0	0	3
3	6	0	0	0	1	2	0	0	6	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	5	0	0	17	0	0	0	6	0	2	0	33
6	0	0	0	0	0	0	59	0	6	1	0	11	1
7	1	4	99	7	4	7	3	0	0	81	1	43	7
8	0	0	9	0	0	0	0	0	0	0	30	5	0
9	0	0	0	0	0	0	0	0	0	1	3	0	15
10	0	3	0	0	23	1	4	0	0	2	14	0	0
11	0	0	0	0	0	0	3	0	0	0	0	43	5
12	0	0	0	0	0	0	3	0	0	0	8	339	48
13	0	0	2	0	52	0	0	0	1	0	1	34	0
14	2	0	0	0	79	0	0	0	1	0	7	3	0
15	0	0	0	0	3	0	0	0	1	0	0	26	3
16	0	0	0	0	1	3	1	0	0	5	0	2	6
17	0	0	0	0	15	0	9	0	5	6	24	7	0
18	27	31	0	9	0	0	0	0	8	0	47	4	0
19	0	0	0	0	0	0	1	0	0	0	0	73	15
20	0	0	0	0	0	0	0	0	2	0	0	7	2
21	0	0	0	0	0	0	0	0	1	0	1	0	0
22	1	0	4	4	0	0	1	0	0	2	0	0	0
23	0	1	10	0	0	1	0	0	1	0	0	24	0
24	20	3	10	11	10	0	25	0	2	0	17	21	7
25	5	1	0	5	0	0	0	0	0	0	0	3	3
26	128	1	1	18	1	0	16	0	0	0	25	106	46
27	1	0	0	2	6	1	13	0	0	0	3	2	0
28	4	3	0	1	0	0	0	0	0	0	0	0	0
29	5	0	0	12	19	3	1	0	0	0	4	25	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0
31	1	0	0	0	0	0	7	0	0	0	3	6	0
32	11	0	0	4	0	0	0	0	0	0	2	5	2
33	7	0	10	9	3	3	10	1	1	0	3	9	0
34	0	0	1	22	0	0	0	0	0	0	14	0	0
35	1	0	2	0	0	0	3	0	0	1	0	0	2
36	2	3	0	3	15	1	7	0	1	4	11	1	1
37	0	1	0	0	1	0	0	0	0	0	8	0	1
38	0	1	6	0	0	1	1	2	0	0	0	5	1
39	4	7	2	13	0	0	9	0	0	2	0	0	0
40	0	1	0	0	0	0	0	0	0	0	1	11	0
41	1	0	11	11	0	2	0	5	0	9	0	27	1
42	6	0	0	0	3	0	1	0	1	5	0	0	0
43	0	0	0	0	0	0	0	0	0	0	5	0	0
44	48	0	58	12	0	17	103	40	2	1	2	0	33
45	3	1	5	1	0	1	22	14	5	6	1	2	5
46	0	0	0	0	0	0	5	18	0	1	0	0	0
47	2	2	6	2	10	0	7	0	1	10	6	13	0
48	0	0	1	2	3	0	0	1	5	0	0	4	0
49	5	4	2	0	5	3	0	0	5	0	1	0	3
50	5	3	0	6	17	0	0	1	5	0	6	2	1
51	0	0	2	1	0	0	3	0	0	0	0	0	1
52	0	4	0	0	0	0	0	0	1	0	6	0	0
53	0	0	0	0	1	2	0	0	12	0	0	0	0

1													
2	0	37	0	0	1	0	0	0	0	0	0	0	0
3	0	6	0	0	6	6	0	0	0	0	0	0	0
4	6	0	0	0	0	21	0	19	0	0	0	0	0
5	0	0	0	0	0	0	0	2	0	0	0	0	0
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7	0	11	1	0	0	1	0	8	0	5	0	0	20
8	0	0	0	0	1	1	0	0	0	0	0	3	0
9	0	0	0	0	0	0	0	0	0	0	0	0	1
10	0	0	0	0	0	0	0	0	0	0	0	0	29
11	0	0	0	0	0	0	0	0	2	0	0	0	17
12	11	0	0	0	0	0	0	0	0	0	0	17	0
13	6	0	0	1	0	0	0	0	1	0	53	35	45
14	11	58	54	18	5	47	0	20	26	0	336	30	657
15	0	0	2	0	3	12	53	21	4	0	4	0	16
16	4	47	0	0	0	12	0	0	38	0	0	0	1
17	0	38	0	3	17	5	0	6	8	0	3	0	8
18	7	3	7	8	4	2	2	0	0	9	7	3	9
19	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	73	5	0	14	0	2	0	0	19	0	86
21	0	0	73	5	0	14	0	2	0	0	19	0	86
22	145	208	77	55	172	223	75	217	265	39	114	58	51
23	1	1	0	0	0	1	2	0	1	0	0	0	0
24	0	0	0	1	0	4	0	0	0	0	0	0	55
25	42	1	3	2	0	2	0	8	3	0	0	0	2
26	15	0	0	0	0	0	5	4	2	0	0	0	0
27	73	2	0	0	0	6	0	71	20	0	0	0	0
28	2	1154	0	0	0	0	2	39	2	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	8
30	0	0	4	2	0	5	50	10	1	0	0	2	0
31	0	3	2	0	0	0	1	0	0	0	0	0	0
32	0	22	0	2	0	0	0	0	84	1	0	2	0
33	1	0	0	0	0	0	0	20	1	0	0	0	0
34	5	3	0	1	0	12	0	19	8	0	0	0	0
35	86	205	2	6	165	98	2	283	210	0	45	1	6
36	12	0	0	0	0	2	0	4	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0
38	20	4	0	1	4	11	0	50	41	0	1	0	3
39	4	14	1	2	16	13	2	26	14	0	4	1	7
40	0	0	16	17	0	55	4	16	5	0	18	8	47
41	5	7	3	8	3	6	2	2	0	0	0	3	5
42	8	2	0	3	3	1	0	1	0	0	17	0	0
43	1	1	2	2	2	0	0	2	0	0	2	0	0
44	0	0	0	0	0	0	0	0	0	0	0	0	0
45	4	0	0	0	0	0	0	19	0	0	0	0	0
46	1	0	16	0	0	0	0	0	0	0	0	0	0
47	0	0	22	19	9	4	0	1	0	6	0	5	0
48	0	12	1	0	1	0	0	1	4	0	0	0	0
49	1	0	1	7	0	0	8	0	0	1	2	2	0
50	22	3	13	209	0	2	106	16	0	51	59	19	4
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52	29	20	0	7	5	38	0	14	4	0	5	1	0
53	185	28	11	29	87	7	0	52	4	7	226	14	5
54	0	0	0	3	1	0	0	1	0	0	0	0	0
55	1	1	0	0	2	0	0	1	0	0	0	0	0

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2	0	1	0	0	0	0	0	0	6	0	0	0	0
3	0	4	9	2	0	0	3	0	0	0	0	0	0
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7	669	2	158	156	147	33	0	265	11	0	30	0	1
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9	9	249	4	6	76	2	0	8	24	0	38	3	1
10	161	1013	26	15	433	12	7	22	196	0	260	3	5
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17	3	1	4	11	7	0	14	6	1	3	1	5	1
18	10	4	8	16	18	1	6	5	12	6	19	4	12
19	108	46	214	313	317	14	225	94	309	139	383	143	129
20	0	1	6	7	4	0	5	7	0	0	2	3	1
21	3	1	6	12	1	0	30	0	0	8	0	11	0
22	0	0	3	4	0	0	27	0	0	3	0	4	0
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24	17	9	16	116	0	0	3	9	0	1	0	122	95
25	339	6	35	144	226	2	0	109	2	2	81	0	0
26	257	30	28	97	255	15	0	144	5	17	161	1	3
27	2	4	0	4	1	0	0	2	0	0	4	0	0
28	12	1	1	45	18	11	1	40	33	0	29	0	0
29	0	0	0	1	18	2	0	2	1	0	0	0	0
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31	54	65	60	25	87	1	6	231	42	0	34	0	0
32	8	68	0	27	3	0	0	2	0	0	63	0	0
33	58	51	6	202	13	22	0	23	11	0	30	8	23
34	537	5	2	82	5	17	0	4	2	0	28	0	0
35	101	36	0	53	58	22	0	60	11	0	15	11	0
36	3	44	0	60	15	3	0	12	15	0	2	7	0
37	0	56	0	0	8	39	0	47	58	0	117	0	0
38	0	0	0	2	1	0	1	0	0	4	0	0	0
39	2	0	9	3	0	0	16	0	0	17	0	15	0
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41	60	21	146	72	82	29	29	105	3	113	6	18	107
42	0	0	2	2	0	0	2	0	0	1	0	1	0
43	12	63	1	62	1	12	0	27	12	0	44	5	21
44	0	0	0	1	0	0	5	0	0	2	0	0	0
45	0	0	6	9	0	0	8	0	0	14	0	5	0
46	0	0	0	5	0	0	1	0	0	7	0	0	0
47	0	35	99	519	100	0	96	1	0	653	17	119	239
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52	0	2	0	0	3	0	0	0	11	0	0	0	0
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54	1	0	0	1	0	1	0	0	0	0	0	3	0

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4	137	26	154	562	660	199	233	111	251	243	438	668	244
5	0	0	4	6	5	1	2	1	3	2	9	10	2
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8	2	4	2	2	6	0	2	6	0	0	1	0	0
9	0	0	5	1	4	0	5	0	0	1	0	1	0
10	3	0	7	8	1	0	17	0	0	3	0	2	0
11	0	0	0	0	0	0	2	0	0	0	0	0	0
12	2	0	0	3	1	0	9	0	0	6	0	0	0
13	1	0	0	5	0	0	0	0	0	0	0	0	0
14	0	0	4	1	0	1	7	0	0	0	0	5	0
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16	1	13	10	9	3	0	10	0	0	9	0	16	1
17	1	0	5	0	1	0	3	0	0	3	0	0	0
18	0	0	4	3	0	0	0	0	0	3	0	2	2
19	2	1	24	8	0	1	21	0	0	2	0	10	0
20	0	1	1	5	0	0	3	0	0	1	0	4	0
21	3	0	0	13	0	0	3	0	0	4	0	3	0
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23	1	0	7	5	4	0	9	4	0	7	1	8	1
24	0	1	1	3	0	0	5	1	0	1	0	2	0
25	0	0	1	4	3	2	0	0	0	0	2	3	1
26	2	0	2	3	0	0	6	0	0	4	0	0	0
27	2	0	26	20	2	1	55	6	0	67	5	23	3
28	0	0	24	21	3	0	37	7	0	108	5	26	3
29	0	0	1	0	0	0	1	0	0	9	0	14	1
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36	0	1	1	0	0	0	1	0	0	9	0	3	0
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41	3	0	1	11	1	1	3	0	0	6	27	16	2
42	563	62	1467	3066	1438	186	2923	190	29	2703	1078	1829	754
43	2	0	1	2	0	0	1	0	1	3	0	1	0
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46	0	0	11	5	2	0	6	0	0	7	0	6	0
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48	0	0	11	8	1	0	3	0	0	18	0	43	2
49	0	4	10	1	2	0	1	0	0	2	0	33	1
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51	0	1	2	0	0	0	1	0	0	0	0	3	1
52	0	4	35	31	7	1	34	0	0	44	0	126	9
53	0	0	2	1	5	0	35	0	0	3	0	1	2

1													
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7													
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9	0	1	6	4	0	0	1	0	0	14	0	34	4
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11	44	322	1672	996	212	19	1014	29	12	1905	89	3370	549
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38	9	0	6	1	3	2	1	1	0	81	0	52	29
39	2	0	8	2	1	0	0	2	0	15	1	19	10
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41	1	0	1	3	0	0	2	0	0	0	0	0	0
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43	11	1	30	15	0	6	14	1	0	51	3	6	0
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47	106	4	98	408	34	15	189	23	7	465	38	189	139
48	3	0	0	1	0	0	0	0	0	1	0	0	0
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54	0	16	0	0	2	0	0	0	8	0	1	0	0

1													
2	19	1233	71	45	528	11	40	36	2514	4	246	85	0
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6	38	7	0	5	16	7	0	25	5	0	7	0	0
7	0	0	0	0	0	0	2	0	0	0	0	4	0
8													
9	110	28	18	23	84	8	6	8	3	18	448	22	0
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25	0	0	6	3	1	0	7	2	0	4	0	4	1
26	1	0	0	11	0	0	0	1	0	2	0	6	0
27	0	0	1	4	4	1	6	3	1	3	0	3	0
28	0	0	2	10	2	1	1	1	0	1	2	0	1
29	19	17	379	1611	564	213	294	767	31	500	568	721	316
30	1	5	37	26	11	20	30	15	2	10	30	29	31
31	0	0	6	1	3	0	3	0	0	1	1	2	7
32	4	7	55	20	16	25	46	2	6	13	20	23	86
33	0	0	4	32	0	8	44	41	0	19	3	2	5
34	0	0	5	6	1	0	0	1	1	0	0	1	5
35	111	1	65	13	1	0	5	12	1	0	15	5	1
36	8	0	0	3	0	0	1	2	0	7	0	0	0
37	3	0	4	20	0	1	10	0	0	38	0	15	2
38	434	18	22	1019	1	50	64	224	0	975	10	422	233
39	5	0	4	4	0	1	0	1	0	4	0	0	0
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41	1	0	0	8	0	0	1	0	0	9	0	4	0
42	16	0	47	123	27	1	31	11	4	63	22	62	15
43	0	0	1	2	0	0	1	0	0	1	0	2	0
44	1	0	3	0	26	3	7	0	5	3	39	17	0
45	3	1	4	1	0	0	1	0	0	0	0	1	0
46	5	1	13	0	0	0	1	4	0	0	0	0	0
47	23	0	2	0	0	1	3	3	0	0	0	0	0
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50	16	1	47	1	0	0	9	2	1	0	0	6	0
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54	7	1	6	1	0	0	0	2	0	0	0	0	0

1													
2	1344	43	1228	161	15	83	121	980	26	39	18	193	0
3	0	2	0	0	1	6	1	0	6	1	0	0	0
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5	22	2	4	9	64	20	3	12	2	1	34	59	27
6	36	0	25	126	30	16	26	4	7	224	1	11	0
7	0	0	0	6	0	0	13	3	8	1	7	3	1
8	1	0	1	6	2	4	8	0	17	7	51	4	0
9	2	0	13	27	6	10	128	7	38	12	27	25	3
10	0	0	17	17	0	14	62	0	19	10	6	28	0
11	3	18	0	2	2	0	0	1	2	1	7	1	0
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13	3	5	161	216	3	37	309	28	187	47	123	282	35
14	0	1	11	6	0	1	10	1	4	3	4	9	0
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17	0	0	1	0	0	0	7	1	0	0	0	2	0
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22	0	0	11	0	0	1	9	0	0	0	0	1	0
23	117	95	674	253	87	163	466	8	7	29	42	274	28
24	0	0	5	2	0	0	6	0	0	1	0	1	0
25	3	0	0	0	0	0	2	0	0	0	0	0	0
26	0	0	4	1	0	0	5	0	0	0	0	3	0
27	1	0	15	6	2	0	35	0	0	1	0	7	0
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29	0	0	2	0	0	0	4	0	1	0	0	0	0
30	23	1	14	7	46	8	40	1	0	17	5	6	1
31	3	0	0	0	0	1	1	1	0	0	1	0	0
32	6	0	0	0	0	5	0	1	0	0	0	7	6
33	99	0	4	1	9	86	3	19	1	1	3	211	58
34	0	0	0	49	0	1	2	193	0	0	6	0	0
35	8	9	14	246	164	18	387	180	335	1	41	176	14
36	92	0	5	1	4	67	1	0	2	1	2	89	32
37	0	0	1	4	1	0	4	0	1	0	0	0	0
38	1	0	0	7	0	0	47	0	0	0	0	13	0
39	0	0	0	0	0	0	3	3	0	0	0	2	0
40	0	0	1	1	0	0	0	0	0	2	0	6	0
41	0	0	0	0	1	0	1	0	0	2	0	1	0
42	9	72	16	18	88	133	173	612	25	0	27	0	49
43	107	3	0	17	0	0	0	3	119	0	0	0	0
44	3	20	0	1	87	10	0	2	40	0	9	0	0
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46	0	0	5	0	2	18	137	0	0	59	0	224	285
47	380	149	197	256	378	137	149	123	317	22	253	262	18
48	2	0	4	1	1	0	2	1	0	0	0	0	0
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50	108	32	6	100	25	24	0	0	49	0	27	0	0
51	329	38	7	10	51	49	0	49	91	0	22	104	25
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2	43	20	1	10	19	9	0	3	2	0	47	6	3
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4	20	19	1	7	62	6	1	4	13	0	62	1	0
5	0	0	13	0	62	1	19	0	0	79	23	22	22
6	0	0	3	0	0	0	11	0	0	10	0	5	0
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8	0	0	0	0	1	0	2	0	0	6	0	0	0
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10	18	0	0	5	0	0	1	3	26	0	3	178	0
11	12	7	13	7	39	1	21	9	36	67	68	31	21
12	22	9	5	12	1	3	0	4	9	0	0	0	0
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14	3	33	109	98	25	48	2	10	8	47	20	43	19
15	0	3	0	1	1	3	0	0	4	0	0	2	0
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18	13	1	2	1	1	0	13	0	2	3	0	3	70
19	8	15	26	25	187	49	0	77	240	1	113	13	1
20	0	0	0	0	2	0	0	1	31	0	0	0	0
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22	195	21	0	1	61	37	0	7	427	0	12	4	1
23	35	1	27	25	62	31	0	0	0	3	16	2	21
24	46	33	19	45	80	6	1	11	7	1	103	23	0
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29	72	409	1199	421	320	581	659	482	209	2751	361	606	2181
30	0	0	2	2	2	1	4	0	0	3	0	1	2
31	3	2	3	1	2	1	1	0	0	6	2	2	8
32	7	0	0	0	0	0	1	0	13	0	1	2	0
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34	0	0	2	0	3	1	0	5	0	0	34	36	1
35	0	0	0	0	0	0	0	14	0	0	0	0	0
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37	0	0	0	0	6	0	0	49	0	1	2	72	37
38	2	0	2	4	4	9	1	7	2	0	0	1	0
39	5	0	0	0	0	0	0	1	0	0	0	1	0
40	9	0	6	1	0	3	27	0	0	1	0	6	5
41	73	0	14	15	249	11	0	53	35	0	27	0	0
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45	4	0	0	1	15	14	0	0	8	0	18	0	0
46	0	0	0	0	108	31	4	2410	41	0	31	13	297
47	0	0	0	0	108	31	4	2410	41	0	31	13	297
48	13	7	12	0	2	164	2	0	20	0	298	0	3
49	3	1	0	0	1	12	0	0	11	0	0	0	0
50	31	351	0	10	145	131	4	43	81	0	21	0	0
51	1	15	0	0	0	7	1	7	0	0	0	0	0
52	28	234	1	0	3	23	14	64	7	0	5	1	6
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55	0	0	0	0	0	0	0	0	76	0	0	0	0
56	6	0	0	4	6	4	0	3	1	0	4	1	0
57	178	33	0	58	132	46	9	50	38	1	67	7	5
58	84	6	28	6	31	1	32	20	19	1	2	5	3
59	11	1	0	3	4	3	1	26	3	0	2	1	0
60	11	1	2	1	2	1	0	1	1	0	3	0	0

1													
2	6	1	1	0	0	3	0	7	1	0	0	0	0
3	3	1	0	0	1	0	0	4	3	0	3	0	0
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6	14	1	0	0	6	3	0	14	6	0	6	0	0
7	80	24	2	14	53	11	1	23	11	0	13	1	13
8	6	0	0	2	2	2	1	0	4	0	0	0	1
9	15	225	115	6	64	11	195	2	42	29	24	34	85
10	0	0	0	0	0	6	8	0	0	0	0	0	0
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15	35	0	0	1	0	7	0	2	9	0	0	0	0
16	37	242	5	72	58	126	1	111	347	0	234	142	67
17	0	1	0	0	0	0	0	0	0	0	0	0	0
18	21	1	0	3	0	2	0	0	2	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0
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22	74	55	50	52	252	65	26	36	58	0	121	69	84
23	15	199	42	28	46	163	0	5	11	1	24	25	679
24	0	5	3	2	0	10	0	0	0	0	1	1	7
25	0	1	0	0	0	0	0	0	0	0	0	0	0
26	0	14	0	0	14	17	0	1	4	0	6	0	3
27	0	0	1	1	2	0	5	0	1	0	0	2	0
28	71	368	81	51	181	45	179	35	468	45	256	169	122
29	1	11	2	2	8	2	3	3	23	0	11	2	2
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31	8	1	33	7	25	28	17	52	5	68	58	10	75
32	94	81	72	52	154	141	116	59	3	264	208	32	217
33	4	1	0	0	5	2	0	1	0	4	10	1	7
34	0	18	0	4	5	0	0	12	1	0	5	0	0
35	11	31	0	0	10	0	2	33	63	0	9	0	0
36	16	247	0	19	13	9	0	33	121	0	27	0	7
37	7	14	1	0	18	18	15	19	4	0	3	0	1
38	4	0	3	1	1	0	3	0	0	0	0	0	9
39	30	25	7	7	36	34	8	69	8	0	55	1	29
40	0	3	1	0	3	0	0	0	4	0	2	0	2
41	0	1	0	2	0	2	2	22	213	0	9	0	3
42	68	61	6	17	69	212	2	66	42	1	76	0	69
43	0	0	2	0	0	0	0	0	0	0	0	0	16
44	0	3	2	55	0	0	0	16	187	0	273	93	0
45	0	0	0	2	0	0	0	1	16	0	9	8	0
46	53	7	7	2	78	8	0	13	180	0	65	39	1
47	13	9	50	11	2	10	26	74	0	2	5	3	13
48	31	15	14	12	70	40	1	2	19	0	50	9	43
49	0	4	1	0	11	7	0	0	10	0	8	0	0
50	54	14	0	5	29	31	0	22	227	0	141	25	1
51	14	268	0	0	176	29	0	13	68	0	18	0	20
52	9	1	2	8	20	1	1	10	1	0	10	6	12
53	5	11	0	1	30	3	0	7	13	0	20	7	29
54	9	7	6	17	4	32	4	11	0	2	30	14	10
55	0	4	0	3	6	0	4	6	0	0	1	0	5

1													
2	1	7	0	4	1	0	3	0	5	1	0	57	6
3	2	0	0	0	0	0	1	0	0	0	1	0	0
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5	0	0	0	0	0	0	0	0	0	0	0	0	0
6	6	9	0	1	0	2	1	13	13	17	0	2	0
7	11	80	32	68	0	14	6	29	3	686	10	25	199
8	0	0	0	0	0	0	0	0	230	0	0	0	0
9	0	0	0	0	4	0	1	0	1	2	0	0	3
10	0	0	2	1	500	8	205	20	0	70	0	12	156
11	0	0	0	0	12	0	2	0	0	1	0	0	7
12	0	0	0	8	0	0	0	1	0	8	0	0	0
13	0	0	2	1	0	2	0	3	1	8	0	0	0
14	0	0	13	0	0	0	0	2	6	0	0	0	1
15	0	0	59	21	0	4	0	163	5	0	0	2	0
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17	3	0	5	0	0	1	0	0	8	0	0	0	0
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19	2	1	0	2	0	0	6	7	0	1	0	0	13
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22	0	0	0	0	0	0	1	0	0	0	0	0	0
23	0	0	0	0	0	0	1	0	0	0	0	0	0
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27	42	20	5	32	8	12	163	36	14	124	5	2	23
28	0	0	0	0	0	0	0	1	0	0	0	0	0
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30	0	0	0	0	14	2	315	116	5	0	14	4	1
31	0	1	0	0	0	0	0	4	0	0	1	0	0
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36	13	3	11	11	13	6	21	23	8	72	4	17	9
37	1	5	0	0	4	11	0	0	0	0	0	4	13
38	0	2	2	0	17	2	0	70	0	0	0	0	1
39	2	32	2	9	0	5	1	14	3	0	5	47	0
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41	2	1	6	2	5	0	1	2	0	5	19	6	3
42	2	6	2	8	0	1	9	1	20	0	24	21	0
43	2	12	0	1	8	1	5	0	8	0	9	0	10
44	3	0	0	0	5	2	0	1	0	6	0	0	7
45	7	15	9	22	10	25	1	94	9	0	37	0	3
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47	0	149	1	5	74	114	0	1	49	0	34	0	13
48	0	0	0	0	0	0	2	0	18	0	0	0	12
49	0	11	0	0	0	2	0	0	0	0	0	0	5
50	0	217	0	0	165	0	0	0	1	0	36	0	1
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53	76	270	7	55	106	3	5	5	56	0	36	9	51
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57	16	1	0	0	7	20	0	4	0	0	107	0	54

1													
2	29	0	1	0	6	81	1	8	0	0	144	0	170
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5	10	35	0	7	7	4	0	8	0	0	0	21	8
6	0	138	7	29	0	0	0	0	0	0	61	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0
8													
9	717	4	137	187	1	16	2	6	20	0	97	62	40
10	46	0	0	2	0	0	0	0	4	0	0	0	0
11	1	20	4	3	2	7	1	13	0	1	9	46	7
12	0	20	0	0	36	2	0	0	2	0	52	13	1
13	0	0	0	0	2	7	0	0	1	0	0	0	17
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15													
16	190	261	10	37	1	68	339	80	78	3	83	8	45
17	403	533	69	356	123	307	1491	237	80	16	310	27	279
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19	29	1	0	5	0	9	40	29	2	1	0	1	7
20	1076	20	9	131	24	408	1711	749	98	13	102	75	202
21	18	4	3	2	4	8	26	11	1	2	5	3	7
22													
23	5	0	0	0	0	2	10	1	1	0	3	0	0
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25	266	452	58	93	52	115	514	125	33	4	136	10	101
26	0	13	0	0	15	0	4	0	2	0	3	0	1
27	0	1	0	0	1	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	5	13	0	0	0	0	2
29	0	0	0	0	0	5	3	9	12	0	0	0	141
30	0	0	0	0	0	0	0	0	0	0	0	0	0
31													
32	1	2	2	0	2	0	0	0	0	0	8	0	5
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34	4	7	3	2	1	0	0	0	0	0	14	3	0
35	0	4	4	0	39	3	0	0	4	0	1	3	1
36	20	3	0	0	1	0	0	0	0	0	0	3	0
37	0	0	0	0	0	0	0	0	0	0	0	3	0
38													
39	0	2	1	1	1	3	0	4	0	0	0	0	2
40	28	0	2	5	1	0	5	0	0	0	2	0	2
41	0	0	0	0	1	1	0	0	0	0	8	0	5
42	3	150	0	0	7	5	0	0	112	0	52	1	6
43	0	0	2	0	0	0	0	0	0	0	0	0	16
44													
45	1	22	0	1	6	2	0	0	13	0	5	9	13
46	0	0	0	0	2	8	0	0	2	0	0	0	17
47	0	0	0	0	3	0	0	0	1	0	18	0	0
48	0	5	4	0	3	1	0	3	5	0	11	3	8
49	1	3	3	0	8	0	2	0	15	1	7	0	6
50	3	134	4	13	44	6	2	4	14	8	20	7	10
51	2	136	1	2	22	8	4	0	77	1	32	2	39
52	2	3	0	0	0	1	0	1	1	0	0	0	0
53													
54	9	17	3	2	28	14	3	4	13	0	21	7	64
55	0	0	0	0	25	0	0	0	0	0	0	0	7
56	0	22	0	0	0	1	0	0	11	0	3	1	2
57	5	12	3	0	16	8	0	0	21	0	19	4	38
58	0	71	0	0	0	0	0	0	652	0	2	0	0
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60	0	16	0	0	7	10	0	0	3	0	6	0	12

1													
2	0	0	0	0	4	1	0	2	2	0	0	1	5
3	0	6	0	0	15	1	1	3	31	0	23	0	17
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7	2	40	1	1	194	70	0	6	4	0	10	2	286
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9	0	43	1	0	14	7	0	0	30	0	16	0	104
10	0	56	0	0	1	16	0	5	13	0	4	0	7
11	0	0	0	0	6	80	0	0	3	0	10	0	0
12	0	15	0	0	18	2444	0	0	30	0	84	0	12
13	0	1	0	0	0	5	0	0	0	0	0	0	5
14	0	277	2	1	3	54	0	0	8	0	199	0	25
15	0	1	20	0	5	1	0	0	0	0	0	0	440
16	0	4	6	0	4	38	0	1	8	0	16	0	2
17	0	0	0	0	1	1	0	0	4	0	0	0	0
18	0	2	1	0	10	16	0	0	0	0	0	0	135
19	0	0	0	0	0	0	0	1	0	0	0	0	0
20	0	9	5	1	4	69	0	9	1	0	138	0	154
21	0	19	0	0	37	77	0	0	28	0	95	0	564
22	1	20	0	0	9	18	0	0	2	0	0	0	1
23	0	0	0	0	0	2	0	4	0	0	0	4	0
24	0	0	0	0	6	1	0	16	0	0	4	0	3
25	0	2	0	0	0	3	0	0	0	0	0	0	0
26	2	36	0	0	0	0	0	0	2	0	9	0	0
27	1	11	0	1	0	6	2	9	1	0	5	0	46
28	0	0	0	3	0	0	0	1	0	0	0	0	3
29	3	0	0	0	11	14	1	20	1	0	8	0	57
30	0	0	0	0	0	1	0	1	0	0	0	0	4
31	6	1	0	0	1	2	0	0	0	0	1	0	30
32	0	0	0	0	0	2	0	19	0	0	0	0	0
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34	1	16	0	0	5	2	5	0	0	0	0	0	1
35	0	2	1	0	8	0	1	2	0	0	5	0	1
36	3	0	0	0	4	1	2	2	0	0	6	0	0
37	4	8	3	3	0	0	0	6	0	0	0	0	2
38	0	0	0	2	0	1	0	0	0	0	0	0	1
39	17	10	0	72	1	3	1	0	12	1	0	2	1
40	1	0	0	0	1	1	0	0	0	0	0	0	3
41	0	0	6	0	0	1	0	2	0	0	0	0	6
42	11	1	9	12	0	4	2	14	2	4	0	9	1
43	0	0	0	0	0	1	5	0	0	4	1	0	8
44	0	0	0	0	0	0	1	0	0	2	0	0	3
45	8	3	1	0	0	0	0	0	2	5	0	6	1
46	2	0	0	0	1	0	2	0	0	0	0	14	0
47	2	0	2	2	0	0	1	1	1	6	2	7	6
48	0	1	0	0	0	0	0	2	0	0	18	2	31
49	0	1	0	0	0	0	0	0	0	1	1	1	19
50	13	9	29	5	100	4	29	12	10	79	104	76	108
51	0	7	4	3	36	10	102	1	22	75	37	30	39
52	0	0	0	0	2	2	8	0	1	4	2	0	3
53	0	1	1	0	3	2	15	0	2	18	6	4	8

1													
2	0	0	0	0	1	0	2	0	0	3	5	0	2
3	51	95	9	2	186	6	43	24	10	79	541	40	142
4	0	2	1	1	4	0	3	1	0	2	14	3	6
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6	8	0	192	68	4	0	19	19	0	66	0	8	3
7	0	0	474	0	0	0	1	0	0	1	0	0	0
8	1	0	72	67	6	0	5	0	0	10	3	23	1
9	8	10	103	15	1	0	29	1	1	35	2	0	10
10	340	22	164	240	10	6	353	88	0	3	0	207	22
11	1	0	62	43	0	23	0	185	38	0	0	0	0
12	31	0	2	1	0	0	3	0	1	10	0	8	4
13	2	0	123	18	40	9	37	3	0	172	13	68	70
14	2	0	3	1	2	1	1	2	3	0	1	2	1
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16	51	8	75	260	24	7	10	76	29	51	26	23	32
17	37	23	182	157	50	4	18	103	98	140	37	47	45
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19	12	18	1	2	17	2	2	0	31	1	0	4	6
20	0	4	0	1	0	0	0	0	9	0	0	2	0
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22	0	3	1	13	0	1	3	0	3	11	0	4	11
23	0	0	0	0	0	0	0	0	0	0	0	1	0
24	1	8	13	10	5	0	0	0	8	17	17	0	35
25	13	7	6	4	118	6	2	0	33	14	1	52	13
26	0	3	0	1	17	2	2	0	8	0	0	16	3
27	3	0	3	2	12	0	0	1	5	9	23	7	4
28	1	1	0	6	1	2	0	0	3	0	2	25	1
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30	15	6	2	2	5	8	0	0	8	0	5	0	3
31	0	0	15	1	0	31	0	20	1	0	0	0	3
32	1	12	0	0	5	2	0	0	0	0	0	0	13
33	95	44	20	8	36	29	6	185	54	1	57	0	64
34	5	16	8	1	7	6	0	4	11	0	10	1	10
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36	29	0	51	1	8	45	16	5	98	3	12	0	12
37	1	0	3	0	0	2	0	0	3	0	0	0	2
38	4	28	24	2	15	1	0	0	23	0	5	0	74
39	10	1	1	1	22	0	1	0	24	0	12	6	0
40	0	6	1	0	3	0	6	0	3	0	0	0	9
41	2	8	1	0	21	0	1	0	3	0	23	0	5
42	0	3	2	0	5	0	0	6	2	0	0	0	1
43	13	0	1	0	0	7	0	0	0	0	0	0	5
44	3	8	3	3	7	1	3	5	9	0	15	1	5
45	26	1	3	0	19	11	0	0	6	0	4	9	3
46	5	0	0	0	1	2	0	0	0	0	0	0	1
47	0	0	0	0	1	0	14	0	0	2	0	0	0
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49	18	10	8	4	18	3	0	11	14	0	22	3	0
50	0	0	0	0	11	12	0	0	1	0	8	0	0
51	0	0	19	1	1	0	1	0	0	3	3	0	0
52	0	17	0	0	10	15	0	0	15	0	23	0	11
53	3	0	1	1	5	4	1	1	0	0	1	0	0

1													
2	3	0	0	4	0	0	0	0	0	0	0	8	0
3	0	4	1	1	26	0	12	0	4	0	19	6	1
4	0	0	0	0	6	17	3	0	0	0	3	35	12
5	7	10	4	0	1	0	0	0	0	0	2	0	0
6	0	0	0	0	0	0	0	0	0	0	11	0	0
7	5	0	11	0	1	1	1	0	0	0	3	41	6
8	0	8	2	0	1	0	5	0	0	2	11	22	6
9													
10	11	41	11	24	18	3	45	0	8	0	48	128	22
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14	3	0	0	1	0	0	3	0	0	0	11	20	3
15	0	3	0	0	18	0	0	0	0	0	15	0	8
16	2	0	0	0	14	0	1	0	2	0	5	0	0
17	0	1	0	0	4	1	0	0	0	0	0	0	3
18	0	1	0	0	13	4	2	0	0	1	8	0	0
19	0	27	20	0	0	74	0	0	0	0	0	0	1
20	0	20	0	0	68	0	0	0	39	0	0	0	46
21													
22	11	4	4	0	84	0	0	0	0	0	25	4	0
23	8	1	0	0	1	0	0	0	0	0	0	0	4
24	8	38	0	4	1	15	0	0	10	0	2	0	5
25	2	2	0	0	5	3	0	0	6	0	0	0	2
26	3	3	0	1	7	5	0	0	9	0	0	0	17
27	2	11	0	0	5	0	0	1	1	0	6	0	6
28	0	4	0	0	12	1	0	0	2	0	0	3	10
29	0	0	0	0	5	3	0	0	2	0	55	0	0
30													
31	10	16	7	0	0	10	0	0	4	0	44	0	83
32	3	13	0	0	13	3	2	1	5	0	15	0	1
33	1	9	0	0	0	9	2	0	0	0	4	0	33
34	0	1	1	0	6	1	0	0	0	0	8	0	4
35	4	5	1	1	0	1	0	0	9	0	0	0	14
36	1	0	0	0	1	5	0	0	2	2	1	0	46
37	1	28	9	0	3	18	0	0	2	0	7	4	48
38	1	2	4	0	20	2	0	0	0	0	0	0	4
39	5	0	0	0	0	2	0	3	1	0	1	0	14
40	60	152	15	3	150	61	1	1	37	0	65	1	44
41	3	0	0	1	1	5	2	0	4	1	0	0	22
42	13	71	4	5	39	0	10	1	43	0	15	21	45
43	0	76	0	0	11	56	0	0	10	0	4	0	16
44	5	0	1	0	10	1	0	0	4	0	0	0	0
45	12	46	7	15	230	2	1	2	154	0	9	71	13
46	0	0	0	0	0	0	0	0	0	0	0	1	0
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48	19	90	60	14	146	29	9	15	96	24	47	23	189
49	0	3	1	2	7	8	0	0	3	3	6	0	15
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54	21	32	55	21	49	13	0	3	23	17	13	16	144
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56	3	1	4	0	0	0	3	1	0	4	0	1	2

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8	4	4	0	0	4	1	0	0	4	0	0	4	2
9	0	7	0	7	23	0	2	0	147	0	1	0	1
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17	17	57	7	14	67	4	60	0	158	4	70	31	59
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9													
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21	131	9	8	5	14	13	0	3	4	4	10	7	10
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27	62	577	26	37	427	88	1	12	816	54	205	77	0
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31	14	11	0	1	6	4	1	2	10	0	0	13	14
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43	6	4	0	0	73	0	0	0	0	0	0	5	0
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46	109	5	1	0	4	19	0	2	2	0	2	4	17
47	0	0	0	0	6	0	0	0	0	0	0	0	0
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50	19	3	1	0	0	0	0	0	0	0	49	10	0
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53	29	2	10	9	2	0	0	0	5	2	23	1	7

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9	6	3	3	1	41	16	1	32	13	0	42	17	10
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22	92	7	312	113	55	15	64	41	15	197	46	238	28
23	15	1	0	2	0	0	1	0	2	0	0	1	1
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25	155	0	0	9	66	7	162	129	2	425	118	260	153
26	0	27	36	2	97	0	13	0	0	56	24	12	99
27	104	0	1	19	7	1	2	4	2	3	9	0	0
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30	78	11	46	17	16	12	100	22	3	298	108	115	21
31	7	11	39	9	26	1	40	0	29	13	2	109	22
32	8	1	0	4	16	2	3	1	9	4	1	4	2
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36	0	0	10	0	0	12	0	0	0	3	0	0	6
37	13	11	43	10	1	9	7	14	3	6	0	1	0
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41	27	12	4	0	3	1	3	0	1	11	12	18	10
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45	15	2	2	2	15	0	13	0	32	2	1	2	0
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20	2	0	2	0	0	1	6	0	20	4	3	2	17
21	4	11	75	117	75	11	114	0	6	207	63	44	116
22													
23	35	7	60	36	2	4	36	0	1	432	19	95	6
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27	55	3	29	5	2	2	9	4	0	17	2	11	3
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35	0	14	0	0	26	7	0	0	11	0	3	0	15
36	2	5	0	0	2	0	0	0	4	0	0	11	0
37	6	2	0	0	2	3	4	0	1	3	0	5	2
38	0	0	4	0	0	3	0	0	0	0	0	5	0
39													
40	11	0	1	6	0	0	0	0	1	0	0	0	0
41	8	0	20	4	4	6	3	28	0	3	3	20	12
42	0	0	0	0	0	0	9	0	0	0	0	42	8
43	1	1	0	1	1	1	2	0	1	8	0	4	1
44													
45	54	15	6	124	7	15	34	10	2	146	12	32	14
46	0	0	1	2	0	0	2	0	8	2	4	1	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	173	0	0	0	0
49	0	155	0	0	263	0	0	14	413	0	15	0	7
50	11	34	4	14	81	10	12	1	13	1	28	80	8
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54	78	6	0	0	15	4	0	0	0	0	0	0	2
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57	0	0	0	0	0	0	0	8	0	0	0	0	0
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60	6	5	5	0	12	1	1	2	4	1	22	1	3

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6	4	771	0	1	141	21	0	1	267	0	222	0	76
7	0	25	1	0	3	0	0	0	12	0	0	0	0
8	0	0	0	0	0	0	0	0	0	3	0	1	2
9	4	1	4	1	0	0	11	0	11	2	10	1	28
10	10	23	2	25	8	1	12	0	4	8	18	6	8
11	1	0	0	0	1	0	3	0	0	5	11	2	0
12	1	0	0	0	2	0	1	1	0	2	0	0	1
13	0	0	14	0	2	0	26	0	1	5	18	0	5
14	0	42	0	1	2	0	0	0	5	0	39	0	0
15	0	17	0	0	6	0	1	0	0	0	3	0	0
16	4	31	0	0	0	1	0	0	0	0	2	0	0
17	1	3	0	2	2	0	0	0	0	0	4	0	0
18	0	0	0	0	0	1	0	0	0	2	15	1	7
19	0	0	2	0	0	0	1	0	0	3	0	0	9
20	0	7	1	0	0	0	0	0	7	0	2	0	0
21	2	0	9	0	0	0	1	0	0	0	1	1	0
22	0	7	1	0	0	0	0	0	7	0	2	0	0
23	2	0	9	0	0	0	1	0	0	0	1	1	0
24	11	4	4	2	5	0	13	0	0	57	6	10	24
25	5	0	21	6	1	0	4	0	0	36	8	21	6
26	0	0	191	21	67	7	47	0	1	271	1	68	110
27	0	0	8	2	1	0	7	0	0	11	0	4	0
28	0	0	0	0	3	0	1	0	1	2	1	0	0
29	3	4	7	3	2	3	0	0	11	7	0	4	3
30	2	0	5	3	10	17	5	8	12	109	4	5	21
31	0	0	0	0	0	0	0	0	0	0	0	0	0
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33	3	2	2	2	2	0	1	0	0	0	6	6	0
34	44	30	4	6	29	8	7	5	90	0	4	21	1
35	28	0	0	0	2	8	0	0	2	0	0	0	1
36	2	20	29	50	1	0	58	20	1	125	0	55	9
37	0	0	10	4	13	0	8	0	0	2	0	1	0
38	1	8	7	30	4	0	20	4	0	70	0	26	3
39	1	0	1	3	0	0	5	1	0	6	0	2	0
40	31	1	23	4	10	1	71	0	0	43	0	32	3
41	28	0	48	0	5	1	51	0	7	23	0	16	6
42	1	0	3	4	2	1	1	2	3	0	0	1	0
43	33	4	46	73	19	10	15	12	82	1	5	42	1
44	4	12	7	8	1	0	46	0	0	37	3	4	1
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46	0	0	2	0	0	0	22	0	0	0	0	13	8
47													
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	T2-508	T2-509	T2-510	T2-512	T2-513	T2-527	T2-530	T1-657	T2-544	T2-547	T2-550	T2-551	T2-553
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6	0	4	0	0	0	2	0	1	0	0	4	2	5
7	0	3	1	0	0	1	0	0	1	0	1	4	0
8	0	1	1	0	3	0	0	0	0	0	0	0	1
9	0	5	0	1	25	0	1	1	1	2	1	0	2
10	0	1	6	0	4	0	0	0	0	0	10	1	0
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12	0	0	0	0	0	0	0	0	0	0	0	0	0
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17	0	0	0	0	8	4	0	3	0	2	2	1	1
18	2	2	0	0	9	1	2	1	0	2	0	0	0
19	0	1	0	0	0	0	0	0	0	1	0	7	0
20	0	1	1	0	14	2	0	0	0	0	2	2	27
21	12	100	0	1	0	4	1	0	0	73	0	55	0
22	0	11	0	0	0	0	0	0	0	1	0	1	0
23	0	0	0	0	0	1	0	0	0	0	0	3	0
24	0	0	0	0	0	1	0	0	0	0	0	1	0
25	0	0	0	0	1	14	0	0	0	2	2	5	0
26	0	0	0	0	0	2	1	0	0	2	0	29	0
27	4	0	0	0	0	4	0	0	0	3	0	0	0
28	27	2	0	0	10	62	0	5	1	23	6	24	0
29	60	5	1	0	14	88	2	3	1	38	4	33	0
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31	0	4	0	1	52	0	0	0	0	0	22	8	3
32	0	0	0	0	0	0	0	0	0	15	0	0	0
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34	9	27	0	1	0	1	1	0	0	4	0	0	0
35	0	2	6	2	2	0	0	2	3	3	10	4	1
36	14	4	0	0	0	13	0	0	0	0	0	9	0
37	0	0	0	2	0	0	0	0	0	1	0	0	0
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39	1	38	8	0	17	2	22	1	115	0	34	4	8
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47	0	0	0	0	1	1	0	0	0	5	0	0	0
48	7	0	0	0	0	0	0	0	0	0	0	5	0
49	14	18	3	0	14	56	17	25	1	16	2	12	0
50	0	0	0	0	0	2	0	0	0	1	0	1	0
51	0	21	0	0	0	6	0	0	0	6	0	3	0
52	0	12	0	0	0	1	0	0	0	0	1	0	0
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54	0	7	0	8	0	7	0	0	1	28	0	12	1

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8	0	1	0	42	0	1	0	0	3	0	6	4	2
9	0	0	3	1	27	1	0	0	2	0	1	1	3
10	0	0	0	0	7	1	0	0	0	1	2	0	0
11	0	7	0	0	8	10	0	0	7	6	2	0	15
12	0	30	6	2	84	63	0	0	98	49	27	0	56
13	6	6	0	3	1	25	0	0	0	3	0	90	0
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16	0	5	16	4	9	2	14	0	4	2	3	1	11
17	1	2	0	0	3	0	0	0	0	4	0	8	0
18	0	1	0	0	22	10	0	3	0	6	2	19	0
19	0	6	0	0	16	2	0	0	0	10	0	8	0
20	0	1	0	6	2	48	2	0	0	0	0	7	0
21	0	0	0	3	0	22	0	0	0	0	0	4	0
22	0	0	1	0	0	0	1	1	0	0	0	1	0
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25	0	0	0	0	7	4	9	0	1	0	0	3	0
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27	3	3	0	0	2	20	4	0	0	2	5	2	1
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30	0	9	0	0	0	2	0	0	0	0	1	16	0
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32	40	0	0	16	0	5	26	0	47	1	11	0	26
33	0	6	1	0	10	5	16	2	6	10	6	4	5
34	3	26	0	0	3	20	1	0	1	27	1	10	0
35	0	0	7	4	0	0	0	0	1	0	3	0	0
36	0	0	2	1	10	1	0	2	3	3	3	6	4
37	0	0	0	0	2	0	1	0	0	2	0	1	0
38	53	5	2	0	9	8	6	12	35	3	3	13	20
39	13	0	1	0	12	0	0	7	6	4	0	0	0
40	1	0	2	0	7	0	0	0	0	0	9	3	0
41	44	0	2	4	15	1	10	11	21	2	0	1	1
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43	2	0	0	0	0	2	0	0	0	3	0	0	0
44	37	3	0	110	0	1	140	13	22	8	0	52	0
45	2	6	3	9	0	8	24	2	4	42	1	7	0
46	0	0	0	0	0	0	0	0	0	0	0	0	4
47	0	4	9	7	1	2	6	2	18	6	5	2	1
48	4	1	1	0	0	0	0	5	0	2	0	1	0
49	0	0	0	1	8	0	2	0	1	0	0	0	0
50	14	1	1	7	2	4	12	1	1	8	2	3	0
51	6	2	0	0	0	1	15	2	8	0	3	0	18
52	0	0	0	0	0	0	0	0	0	0	0	0	0
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54	0	0	0	0	0	0	0	0	0	0	0	1	0

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2	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	2	0
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8	0	0	0	0	0	0	0	0	0	0	0	0	0
9	10	0	0	0	0	0	0	0	0	0	0	0	0
10	0	3	0	0	0	0	0	0	0	0	6	0	0
11	0	0	0	0	0	0	0	0	0	0	0	10	0
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16	1	0	0	0	0	0	2	0	0	0	0	1	0
17	2	3	0	0	0	0	0	0	0	0	0	3	0
18	7	9	3	16	4	15	26	12	3	1	24	3	1
19	0	0	0	0	5	43	0	0	0	0	0	0	0
20	0	0	0	0	5	43	0	0	0	0	0	0	0
21	34	50	0	5	7	18	139	0	11	98	2	8	0
22	44	16	33	132	141	54	71	226	38	81	106	187	37
23	0	0	0	0	0	0	0	0	0	0	1	6	1
24	0	0	0	6	0	0	0	0	0	0	0	0	0
25	0	0	0	0	1	1	1	8	0	0	3	2	3
26	0	0	0	0	0	0	0	0	0	0	0	1	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0
28	1	0	0	0	0	0	0	0	0	0	0	0	0
29	196	0	0	27	0	10	0	0	0	1	0	4	0
30	0	0	0	0	3	0	0	0	0	0	0	0	0
31	0	0	0	0	3	0	0	0	0	0	0	0	0
32	27	0	12	7	0	0	37	3	18	0	2	9	6
33	0	0	0	1	2	0	1	0	0	9	0	2	0
34	6	0	2	0	0	6	2	0	0	0	0	0	0
35	4	0	0	0	0	2	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0
38	75	4	0	1	0	28	2	33	1	0	0	11	0
39	0	1	0	0	0	0	0	0	0	0	0	1	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0
41	5	2	0	0	0	14	0	1	0	0	0	0	0
42	8	12	0	0	0	7	3	13	1	0	0	5	0
43	15	0	1	0	2	35	0	0	0	0	0	0	0
44	15	0	2	1	0	31	6	1	6	5	3	3	11
45	4	4	0	0	0	0	1	2	0	2	1	0	0
46	0	0	1	1	0	3	0	0	4	0	0	0	0
47	0	0	0	0	0	5	0	0	0	0	0	0	0
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55	267	5	306	250	345	6	34	2	527	51	18	43	189
56	5	0	6	3	16	0	0	1	15	0	1	0	9
57	17	8	0	4	0	7	5	1	0	3	2	2	0
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10	100	91	5	24	29	33	0	6	3	79	0	63	0
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16	0	0	0	0	0	0	0	0	0	0	0	0	0
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19	25	0	2	2	4	10	11	8	5	10	14	3	2
20	414	83	74	34	112	306	245	151	152	202	288	63	114
21	7	0	1	1	2	4	4	2	1	1	4	0	2
22	14	6	7	2	5	23	8	12	14	7	30	4	11
23	4	2	2	1	6	9	1	6	6	3	13	0	8
24	0	0	0	0	0	0	0	4	0	0	0	0	0
25	60	1	2	245	44	42	292	8	0	11	98	20	3
26	20	18	3	3	0	70	1	53	1	29	2	18	0
27	43	20	21	25	1	69	12	52	5	30	19	6	0
28	0	0	0	0	0	2	2	2	0	1	4	1	0
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32	65	19	0	12	2	32	3	46	0	118	0	19	0
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34	48	20	18	2	8	62	35	65	7	40	91	7	0
35	4	6	0	6	0	3	21	32	0	12	0	0	0
36	100	72	0	8	0	26	1	27	0	0	0	2	0
37	69	20	0	24	0	2	1	0	0	6	0	1	0
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40	0	3	13	2	35	0	6	13	0	0	11	0	3
41	2	6	11	2	1	0	6	4	2	0	1	2	1
42	27	78	84	33	28	8	83	84	55	48	17	16	59
43	0	0	2	3	0	0	0	2	1	0	0	1	4
44	12	1	0	1	0	67	0	55	0	19	62	14	0
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46	1	21	69	20	3	2	0	2	2	2	6	20	3
47	1	2	1	0	1	1	0	0	0	0	0	5	4
48	114	263	1169	497	146	158	43	3	16	63	204	405	77
49	3	11	38	20	3	2	1	2	1	1	3	10	2
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52	4	0	1	0	0	0	0	0	4	0	0	0	11
53	3	0	0	0	0	1	0	0	0	0	0	2	0
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55	1	3	0	0	0	0	2	1	16	1	2	2	3

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5	2	11	1	2	6	4	10	1	22	2	6	0	26
6	5	4	1	4	5	1	11	2	13	8	4	6	23
7	2	2	1	1	1	0	1	1	4	0	4	2	15
8	2	2	1	2	0	7	0	11	2	0	1	2	0
9	0	8	0	6	1	2	1	0	0	0	5	2	0
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37	13	28	3	25	0	21	17	14	2	38	3	65	0
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39	1	3	0	4	0	0	7	7	1	4	0	5	17
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47	6	6	13	12	86	37	21	8	241	22	57	34	46
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59	0	1	0	0	0	0	0	0	0	0	0	0	0
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37	25	0	0	1	3	0	6	13	0	4	0	3	0
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43	3	4	0	0	0	0	0	0	0	4	0	0	0
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8	1	3	0	3	0	0	0	2	0	0	7	2	0
9													
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15	7	0	0	2	0	0	12	0	0	3	0	18	0
16													
17	16	56	0	41	158	81	213	0	0	927	0	36	0
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19	3	0	0	0	0	0	4	2	0	0	0	4	0
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21	0	0	0	0	0	0	0	0	0	0	0	0	0
22													
23	20	73	25	30	43	51	13	52	15	66	52	55	21
24	41	14	4	15	402	124	88	10	14	52	7	78	1
25	1	0	0	0	5	4	1	1	0	0	0	2	0
26	0	0	1	0	4	1	2	0	1	2	0	1	0
27	0	11	0	0	4	0	0	10	0	8	0	2	0
28	0	2	0	1	0	0	0	1	2	0	0	0	3
29													
30	125	138	59	41	166	147	110	132	133	114	135	57	108
31	0	0	1	1	1	5	1	0	1	1	0	2	0
32	0	0	0	0	1	0	1	1	0	0	0	1	1
33	14	34	28	5	58	95	8	8	10	1	17	28	4
34	84	127	100	107	297	379	71	131	49	16	93	32	147
35	4	9	1	6	6	14	8	2	0	2	5	2	6
36	6	5	0	0	0	6	1	0	0	0	0	0	0
37													
38	5	4	0	0	0	3	0	0	0	0	0	5	0
39	0	1	0	0	1	0	0	0	2	0	2	6	0
40	0	3	0	1	0	1	0	0	9	0	2	7	0
41	3	1	1	1	11	15	0	3	3	0	0	0	0
42	35	125	0	23	8	22	61	19	49	15	8	10	7
43	6	1	0	0	0	0	0	2	0	0	0	0	0
44													
45	4	0	0	0	20	2	18	0	0	1	0	14	8
46	34	9	0	0	27	4	14	26	16	3	23	6	0
47	2	2	0	0	0	22	13	0	0	1	0	7	0
48	9	87	0	6	18	0	6	1	7	186	47	149	0
49	0	1	0	0	0	0	1	0	0	3	2	6	0
50	22	38	0	9	3	3	12	19	0	58	14	23	0
51	1	12	5	6	16	10	20	30	22	5	5	13	8
52													
53	4	71	0	7	1	3	1	90	0	12	0	18	0
54	0	2	0	0	2	0	0	0	0	2	0	1	0
55	0	20	0	3	1	8	0	48	0	11	0	64	0
56	0	11	1	1	0	0	0	0	3	9	0	42	0
57	11	26	0	6	3	15	6	10	1	9	6	4	1
58	13	8	0	3	4	14	0	0	2	6	0	10	0
59	9	1	5	13	17	4	1	17	8	8	2	1	5
60	0	1	0	0	0	3	1	1	12	0	1	0	0

1													
2	17	0	0	0	0	1	11	2	9	6	43	2	2
3	0	2	0	0	1	0	0	0	0	0	0	4	0
4	1	137	0	0	16	0	0	0	1	0	22	133	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	2	1	1	3	1	3	2	9	0	1	6	1
7	39	52	30	4	131	46	17	143	66	44	63	30	41
8	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	2	0	1	5	0	0	0	0	3	0	0
10	33	17	38	2	17	216	1	8	9	12	76	3	2
11	0	0	0	0	0	4	0	1	1	0	1	0	0
12	41	0	0	0	16	0	1	7	0	0	0	1	0
13	0	0	1	1	1	0	0	0	16	2	0	0	30
14	4	0	0	5	10	0	0	0	56	0	0	0	321
15	0	0	0	18	16	0	0	0	175	1	3	1	633
16	1	0	0	2	2	0	0	0	10	0	0	0	34
17	0	0	0	21	2	0	0	0	9	0	0	1	29
18	0	0	0	0	0	0	0	0	28	0	0	3	116
19	2	8	3	32	3	0	2	2	0	35	2	49	21
20	0	0	1	4	1	0	0	1	1	13	0	10	6
21	3	2	0	1	2	0	0	0	0	7	0	4	5
22	0	0	1	1	0	0	0	0	0	2	0	4	5
23	0	0	0	1	0	0	0	0	0	1	0	8	2
24	78	156	42	591	156	13	21	66	61	2166	10	2420	1002
25	0	0	0	1	0	0	0	0	0	4	0	4	3
26	1	6	1	12	9	1	0	3	2	64	0	61	21
27	10	13	0	20	0	14	56	0	4	219	31	1	0
28	3	0	0	0	1	0	0	3	0	0	0	0	0
29	17	0	0	0	0	2	0	1	2	0	1	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0
31	14	9	33	12	2	5	3	1	10	5	1	9	0
32	56	8	36	32	4	9	13	21	11	4	9	19	14
33	61	0	0	0	2	0	6	0	4	0	0	0	0
34	11	0	0	0	2	24	8	4	0	1	7	0	0
35	0	6	0	12	9	3	35	11	7	0	20	5	0
36	2	1	5	0	35	3	0	10	0	1	11	7	1
37	0	1	13	1	16	4	0	1	1	0	12	1	0
38	2	29	0	8	4	17	8	1	0	5	0	26	0
39	0	0	0	0	5	1	0	1	0	0	0	3	1
40	0	0	0	1	5	1	0	2	2	0	2	0	3
41	0	0	0	5	34	2	3	0	2	5	1	1	2
42	8	1	0	3	0	0	3	0	1	8	0	0	0
43	68	14	1	3	0	0	25	0	9	17	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	1	0
45	4	0	0	0	0	2	0	0	0	1	0	0	0
46	30	0	0	0	0	44	0	0	0	20	0	2	0
47	0	6	0	0	1	0	0	0	0	0	0	0	0
48	2	7	0	18	18	43	0	0	2	7	19	62	0
49	90	28	0	4	40	2	10	0	98	20	2	27	0
50	33	25	0	16	4	0	0	0	0	0	3	20	0
51	0	45	0	0	0	0	0	0	0	0	0	0	0
52	0	648	0	0	0	0	0	0	0	0	0	0	0
53	8	0	0	5	0	3	0	0	0	3	0	64	0

1													
2	22	0	0	4	0	0	0	0	0	8	0	2	0
3	0	59	0	0	7	0	0	0	0	0	0	0	0
4	0	450	0	0	0	0	0	0	0	0	0	0	0
5	11	7	0	5	2	19	1	1	7	12	7	1	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	6	0	0	4	0	0	0	0
8													
9	36	45	0	50	56	275	263	54	0	1	0	196	0
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11	31	3	12	2	15	9	9	0	62	2	0	3	15
12	3	13	0	4	0	7	14	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	19	0	0	0
14	0	3	0	0	0	0	0	0	0	0	1	0	0
15													
16	18	22	0	45	16	29	13	102	0	19	37	46	68
17	66	494	1	98	301	48	104	241	259	259	48	61	246
18	1	0	0	0	0	2	2	3	0	1	1	0	3
19	1	3	0	10	0	4	2	12	4	0	6	1	10
20	29	139	1	291	17	51	25	184	67	46	128	171	463
21	1	3	0	6	3	3	2	6	3	0	3	3	11
22	0	0	0	2	0	0	0	2	0	1	0	0	4
23													
24	25	0	2	7	11	0	2	40	5	0	0	1	0
25	21	172	2	80	100	15	62	152	84	91	27	34	99
26	1	0	0	0	1	0	0	1	0	1	0	0	1
27	0	0	0	0	0	0	0	0	0	0	0	0	0
28	2	0	0	1	0	1	0	0	0	0	0	3	0
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30	0	0	0	0	0	0	0	0	0	0	0	0	0
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32	0	2	0	1	2	2	3	7	1	4	0	0	0
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34	0	3	0	5	4	0	2	2	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	15	0	2	0
36	1	1	0	3	1	2	3	0	4	5	0	9	0
37	0	0	0	0	0	0	0	0	0	40	2	36	0
38	0	0	0	0	0	0	2	0	2	0	0	1	21
39	0	0	0	0	0	0	2	0	2	0	0	1	21
40	3	0	0	0	11	1	12	0	0	1	0	12	1
41	0	2	0	0	0	10	0	0	0	11	0	0	0
42	5	9	0	0	7	4	2	4	0	11	0	16	0
43	0	0	9	0	0	0	0	0	12	0	14	0	0
44	0	0	0	0	2	0	3	0	0	24	0	5	0
45	0	0	0	0	3	0	0	0	0	0	2	3	1
46	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0
48	1	2	0	0	2	0	0	0	0	0	1	0	0
49	0	1	0	0	2	0	2	3	0	0	3	11	0
50	6	0	0	0	2	0	2	0	0	30	1	17	0
51	3	4	0	0	2	8	2	3	2	8	3	9	0
52	0	0	0	1	1	0	0	0	0	0	0	0	0
53													
54	0	5	2	0	52	3	10	0	0	0	0	3	0
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56	0	0	0	0	2	1	0	0	0	11	0	0	0
57	2	0	0	0	33	0	3	0	0	6	0	4	0
58	0	0	0	0	0	0	0	0	0	1	0	0	0
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60	0	0	0	0	2	2	0	0	0	13	0	4	0

1													
2	0	0	0	0	8	0	0	0	1	0	0	0	0
3	2	0	0	0	1	4	0	0	0	11	0	8	0
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6	0	0	0	0	3	1	0	0	0	0	0	6	0
7	2	1	0	0	4	8	0	0	0	18	1	15	0
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9	2	1	0	0	17	2	0	1	0	1	0	1	0
10	0	0	0	0	3	3	1	0	0	4	0	2	0
11	0	0	0	0	1	0	0	0	0	0	0	0	0
12	1	1	0	0	6	1	0	0	0	2	0	0	1
13	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	9	1	0	8	1	0	0	0	11	0	0	0
16	0	5	0	0	123	0	0	0	0	3	0	0	0
17	2	10	0	0	5	2	0	0	0	5	0	0	0
18	0	0	0	0	0	3	0	0	0	4	0	0	0
19	0	2	0	1	5	5	0	0	0	15	0	0	0
20	0	25	0	0	0	0	0	0	0	0	0	0	0
21	0	9	0	1	52	7	5	1	0	1	0	13	0
22	0	4	0	0	24	6	0	0	0	19	0	3	0
23	0	1	0	0	0	2	0	0	0	0	1	3	0
24	0	3	0	0	0	0	0	1	0	1	2	0	0
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28	0	1	0	0	1	0	0	0	0	0	0	0	0
29	5	4	0	1	6	3	2	10	1	0	0	4	0
30	0	0	0	0	0	0	0	0	0	2	0	0	0
31	1	1	0	0	11	0	1	10	0	2	0	1	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	3	0	0	1	0	0	0	0	0	0	3	0
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36	0	0	0	0	0	0	0	0	0	0	0	0	0
37	7	0	0	0	0	0	0	0	0	0	0	0	0
38	7	1	0	0	0	0	0	0	0	0	0	0	0
39	0	8	0	0	0	2	2	0	3	0	0	0	0
40	3	1	0	1	0	0	0	2	2	0	0	2	0
41	0	8	0	0	7	7	1	6	0	0	1	0	1
42	0	1	0	0	0	0	1	3	2	0	2	0	0
43	2	3	0	17	11	2	0	0	5	0	12	2	13
44	0	0	0	0	1	2	0	19	0	0	0	0	0
45	1	3	0	0	1	19	2	5	0	0	0	0	0
46	32	7	0	11	0	18	13	2	5	11	11	1	0
47	0	0	0	0	19	0	0	0	0	0	0	1	4
48	0	0	0	0	14	0	0	0	0	0	0	1	3
49	1	0	2	0	2	0	3	3	14	2	0	1	5
50	4	0	0	0	1	0	0	1	27	1	31	5	0
51	1	0	0	2	1	0	0	5	1	1	1	0	1
52	0	6	1	0	0	16	19	0	2	0	2	0	0
53	0	1	0	0	0	0	1	0	0	0	0	0	0
54	8	107	18	7	51	124	92	50	38	62	51	71	26
55	5	53	23	11	12	38	134	2	69	21	27	37	53
56	1	3	1	0	1	2	6	0	5	0	2	1	0
57	1	12	1	2	4	8	25	1	12	5	7	3	2

1													
2	0	0	2	0	0	2	2	0	0	2	0	5	1
3	20	85	112	7	36	158	96	55	21	48	37	40	16
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6	5	0	11	12	22	13	30	18	17	22	2	18	20
7	0	0	0	1	12	0	1	7	1	0	0	0	0
8	0	8	9	35	20	13	21	14	1	9	7	0	1
9	0	15	66	0	80	34	5	17	21	4	39	2	25
10	32	185	1	28	13	386	129	142	31	756	69	86	200
11	1	0	0	0	0	0	4	0	0	0	0	68	0
12	1	5	2	1	5	4	1	0	1	6	1	3	0
13	3	40	23	31	1	33	76	0	45	35	51	15	5
14	3	0	0	3	0	0	6	0	5	0	0	1	0
15	1	6	9	24	2	3	8	1	2	13	7	2	0
16	124	5	28	172	16	15	163	93	238	29	18	15	6
17	82	7	70	118	38	38	360	81	299	45	63	28	25
18	0	4	0	0	1	0	0	0	0	6	0	2	0
19	6	5	7	5	0	1	1	0	1	6	0	3	0
20	0	0	17	0	3	0	1	1	1	1	6	14	2
21	0	0	3	13	15	0	0	4	14	7	64	10	26
22	3	0	6	10	3	0	0	3	13	4	78	39	18
23	0	0	0	0	0	0	0	0	0	0	1	7	4
24	0	0	2	0	4	3	0	3	2	0	23	9	4
25	7	11	8	31	66	4	0	2	21	22	22	17	26
26	0	0	4	8	7	3	0	0	2	1	34	20	3
27	2	3	3	0	6	2	0	4	2	4	8	4	2
28	2	2	1	31	8	0	0	0	10	5	16	8	9
29	1	4	1	2	15	1	0	0	7	1	5	22	0
30	1	11	0	2	1	0	1	0	0	5	0	8	0
31	0	0	0	4	0	0	14	5	11	2	0	0	0
32	0	0	0	0	1	0	1	0	0	1	0	1	0
33	8	21	0	7	9	5	10	6	13	23	11	22	3
34	2	5	1	2	3	0	5	2	0	5	1	2	0
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36	0	29	2	1	6	34	27	28	6	0	4	2	15
37	0	3	0	0	0	2	1	2	1	0	0	0	1
38	0	5	0	3	17	6	54	0	0	6	0	0	0
39	2	6	0	0	4	0	0	0	0	0	0	5	0
40	0	0	0	0	0	1	0	0	0	1	0	4	2
41	0	2	0	0	5	0	0	0	0	4	0	0	0
42	0	0	0	0	0	1	0	1	5	0	0	2	0
43	0	0	0	1	7	6	3	0	0	2	3	4	0
44	0	1	0	2	1	4	4	5	0	2	3	3	1
45	11	3	0	14	0	9	7	0	9	20	2	10	0
46	2	0	0	0	0	1	1	0	0	3	1	1	0
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49	9	1	0	20	0	0	12	7	0	3	0	0	0
50	0	1	0	0	0	0	0	0	0	0	0	4	0
51	0	0	0	0	3	1	1	2	0	8	2	0	0
52	0	2	0	0	4	3	0	0	0	1	0	2	0
53	0	2	0	2	0	1	0	0	0	1	2	9	0

1													
2	4	1	0	5	14	10	0	0	0	0	2	12	0
3	5	0	0	2	1	7	13	0	6	1	1	0	0
4	4	13	0	3	0	31	0	0	0	0	0	0	0
5	0	0	0	1	0	1	0	0	0	17	4	27	0
6	0	3	0	0	0	0	0	0	0	0	0	0	0
7	3	12	4	5	3	1	0	0	7	0	21	18	7
8	0	5	4	1	1	1	1	0	5	0	13	9	2
9	7	50	5	25	42	47	36	26	35	28	40	52	44
10	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	4	0	0	0	1	0	0	0
12	0	5	6	1	11	18	0	3	2	0	18	20	6
13	0	43	0	10	8	12	3	4	12	3	1	3	4
14	0	0	0	0	5	0	2	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	1	0	1	0
16	0	1	0	0	0	1	0	3	0	0	0	3	0
17	0	1	0	0	0	1	0	3	0	0	0	3	0
18	12	4	0	0	1	0	0	4	0	0	1	3	3
19	0	0	0	0	82	1	0	0	0	0	0	0	0
20	0	5	0	1	0	1	0	0	0	17	0	1	0
21	1	0	0	0	0	1	0	0	4	0	0	1	0
22	0	3	2	0	0	0	0	12	2	0	0	6	0
23	0	2	0	0	5	0	0	0	0	16	0	5	0
24	0	3	0	0	1	0	0	0	0	0	0	0	0
25	0	2	0	0	5	2	4	0	0	3	0	2	0
26	0	0	0	0	1	0	1	6	1	0	2	3	0
27	1	3	0	0	0	0	0	1	4	0	3	5	0
28	0	0	0	1	0	12	1	1	1	0	1	1	0
29	0	35	0	1	22	6	0	0	0	0	0	63	0
30	0	1	0	1	5	0	0	4	0	0	0	0	0
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24													
25	139	240	292	184	45	76	143	120	166	338	220	66	60
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33													
34	35	251	35	204	1072	126	319	40	183	131	115	46	57
35	137	5	12	9	76	4	38	4	86	17	26	8	20
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13	90	200	349	148	360	85	29	135	299	64	555	47	882
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43	240	76	0	0	0	0	0	0	0	0	0	100	0
44	61	7	4	0	15	109	9	1	12	33	14	156	4
45	1	0	0	0	0	1	2	0	0	0	0	2	0
46	0	5	1	0	0	0	0	0	0	68	0	84	0
47	0	2	0	1	0	0	0	0	0	3	0	2	0
48	1	0	0	0	0	1	1	0	0	1	0	3	0
49	20	68	18	0	55	59	17	397	170	30	330	10	235
50	0	0	0	2	0	0	0	0	0	1	0	0	0
51	0	1	0	0	0	0	0	0	4	18	0	1	0
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53	3	4	2	2	0	1	2	3	0	7	0	5	0

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3	0	0	0	0	0	0	0	0	0	5	5	0	1
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5	0	0	0	0	0	1	0	0	0	1	0	0	0
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11	0	2	0	4	5	2	1	0	4	0	2	3	0
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13	0	4	8	0	26	5	1	0	4	1	3	2	6
14	2	3	0	0	0	11	0	0	0	3	0	43	0
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19	1	2	0	0	28	0	1	2	5	0	1	1	1
20	0	0	1	1	3	0	0	0	0	0	0	1	0
21	0	3	1	0	3	0	6	0	11	0	1	0	8
22	7	5	19	14	58	21	9	11	9	18	5	17	7
23	3	10	32	1	50	13	8	0	21	12	32	17	11
24	0	21	97	114	159	34	98	30	30	39	49	34	57
25	0	2	5	2	5	1	4	1	2	1	2	1	8
26	0	1	0	0	0	0	0	0	0	0	1	2	0
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28	1	19	0	1	2	6	8	0	1	14	2	0	3
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30	11	1	0	0	0	0	0	2	1	1	0	4	0
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32	17	5	6	7	0	6	20	20	16	6	5	7	0
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39	2	5	14	28	6	8	19	11	30	14	11	28	56
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9	18	2	1	1	0	0	0	0	1	3	0	7	5
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17	39	7	5	2	4	4	6	2	7	0	4	0	4
18	0	1	0	1	5	0	1	0	16	0	0	2	0
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24	0	0	1	0	36	1	9	0	1	0	1	1	9
25	0	1	6	21	0	0	4	0	26	0	0	149	0
26	0	0	3	0	4	1	0	0	13	0	0	14	0
27	3	11	7	21	40	42	24	0	38	0	17	35	0
28	7	14	7	43	51	91	51	0	54	2	24	62	0
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31	0	2	0	0	27	0	0	0	1	0	0	0	0
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34	4	0	3	0	1	0	0	2	0	26	4	0	1
35	0	0	0	5	0	0	0	0	2	0	0	0	0
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50	1	0	0	0	0	19	1	0	0	0	21	0	0
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12	45	2	117	26	2	47	2	25	0	38	22	26	249
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17	1	0	0	0	2	0	0	8	2	2	0	5	5
18	2	6	10	1	0	6	0	0	25	0	0	46	0
19	0	0	5	0	3	1	0	5	4	13	11	5	35
20	0	0	0	1	1	0	0	0	1	5	0	0	4
21	0	0	1	2	0	0	0	0	0	2	0	2	1
22	3	4	1	1	1	0	2	5	1	0	1	0	3
23	6	10	0	3	4	10	1	0	13	0	4	15	0
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31	0	3	1	1	6	1	0	2	1	0	0	0	0
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33	7	3	17	3	10	5	15	2	0	3	7	8	2
34	0	3	0	1	22	6	2	0	20	0	1	0	5
35	0	3	0	0	0	4	0	1	0	0	1	0	11
36	5	7	0	5	0	4	6	4	13	0	2	1	5
37	0	0	1	1	0	0	0	0	5	0	0	0	0
38	1	6	1	0	5	0	11	0	1	6	1	3	12
39	0	10	10	13	1	14	1	6	5	0	1	6	0
40	0	4	1	1	0	5	1	1	9	0	0	1	24
41	1	16	9	0	2	0	60	3	7	17	9	0	1
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48	0	3	6	1	1	0	4	0	1	1	0	0	0
49	1	0	2	2	2	0	0	0	0	0	1	0	0
50	19	8	8	11	30	0	23	1	2	3	2	1	2
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54	1	3	4	0	9	1	4	1	6	9	9	0	1
55	0	3	6	1	1	0	4	0	1	1	0	0	0
56	1	0	2	2	2	0	0	0	0	0	1	0	0
57	19	8	8	11	30	0	23	1	2	3	2	1	2
58	3	9	0	0	0	9	7	0	1	0	0	3	0
59	0	0	0	0	0	0	6	0	1	0	0	0	0
60	0	0	0	0	1	0	0	0	0	0	0	0	0

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3	0	0	0	0	1	0	0	0	0	0	0	2	0
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7	0	0	2	0	6	3	2	0	6	3	3	2	0
8	0	35	0	0	0	0	0	0	0	0	0	0	0
9													
10	16	0	0	0	0	27	0	0	0	0	1	0	139
11	0	0	0	0	0	0	0	0	10	0	0	0	1
12	0	0	171	2	0	0	0	0	0	0	0	1	0
13	0	163	10	108	0	1	4	0	0	4	17	0	1
14	10	26	62	50	24	64	20	3	7	1	61	123	12
15	3	0	0	7	0	5	4	7	3	0	6	0	25
16	0	0	0	15	11	1	0	0	1	0	0	0	3
17	1	0	1	4	1	9	17	0	3	0	5	0	0
18	0	2	1	2	2	3	15	5	3	2	10	3	8
19	0	6	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	10	0	0	1	0	0	39	7
21													
22	325	115	239	102	341	74	105	43	78	46	152	46	11
23	1	0	1	1	0	2	1	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	22	1	29	0	58
25	0	2	0	6	1	2	1	0	0	5	2	2	5
26	0	1	0	1	0	0	3	0	0	0	0	0	0
27	0	2	0	0	0	0	2	0	0	0	0	0	0
28	0	0	0	2	0	0	39	0	34	0	0	46	0
29	0	0	1	0	1	0	0	0	0	0	0	0	0
30	0	9	0	0	0	2	11	6	3	7	3	0	3
31	0	0	0	0	0	0	0	2	0	0	1	1	0
32	0	0	0	0	0	0	0	0	0	0	0	0	6
33	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	1	2	11	6	0	0	0	0	0	0	0	0
35	1	68	13	51	20	7	41	1	29	3	14	117	0
36	0	0	0	0	0	0	0	0	0	0	0	1	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0
38	0	2	0	2	1	0	0	0	4	0	0	10	0
39	3	0	6	16	14	4	10	0	3	2	6	5	0
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1													
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10	16	90	161	123	73	291	27	1	81	3	16	254	1
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16	3	0	4	10	0	6	1	5	2	0	2	1	16
17	8	4	13	16	4	15	1	1	7	7	13	2	18
18	148	99	316	293	210	264	63	24	178	72	289	30	480
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22	0	0	0	0	0	1	0	0	0	0	0	0	0
23	19	95	45	16	12	8	19	17	88	2	466	2	2
24	8	323	36	5	89	277	229	0	98	11	21	263	33
25	4	767	18	169	118	186	57	0	84	11	26	174	118
26	1	3	0	5	1	2	2	0	3	0	1	0	4
27	0	6	4	125	57	183	0	0	51	6	1	24	2
28	1	42	0	38	3	0	2	0	3	0	0	0	0
29	0	9	0	2	0	1	0	0	0	0	0	4	0
30	16	157	83	121	100	11	111	1	42	0	1	322	2
31	0	14	1	0	0	4	0	0	39	0	1	41	0
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33	0	48	41	28	10	2	15	0	56	0	4	71	0
34	2	75	1	42	7	11	173	0	19	0	5	57	42
35	2	40	116	10	12	29	1	0	17	3	3	48	0
36	0	52	229	71	1	0	67	0	9	0	0	3	0
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40	48	39	41	71	6	76	7	95	30	34	47	36	44
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45	0	0	0	0	0	3	0	6	0	1	2	0	0
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53	0	0	4	4	0	0	0	0	0	0	2	0	1

1													
2	0	0	0	0	0	0	0	1	0	1	0	0	0
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4	166	70	153	113	347	508	249	121	417	539	352	338	235
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7													
8	301	117	342	108	131	314	182	1683	67	1607	418	185	1419
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57	0	0	3	1	0	2	1	0	1	0	0	0	0
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29	49	221	86	338	133	218	75	685	94	729	214	500	452
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38	320	25	18	41	61	1	4	1	28	317	839	84	1187
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26	101	131	37	267	29	198	1170	10	2	3	32	82	26
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37	26	74	203	88	3	11	33	0	5	33	100	16	18
38	0	61	0	50	114	3	0	0	9	1	0	0	0
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41	21	67	195	79	2	6	14	0	5	21	29	11	17
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52	53	7	1	0	2	12	0	32	0	367	43	75	30
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57	0	73	12	17	17	2	0	0	79	0	0	74	0
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9													
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21													
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28													
29	1522	60	379	371	283	186	181	97	284	83	445	356	264
30	3	1	2	4	0	0	0	0	1	0	0	1	5
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49	0	0	0	0	1	1	1	0	0	0	0	6	0
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55	0	20	0	16	8	7	15	8	2	0	15	3	26
56	0	5	1	0	6	0	1	0	0	0	0	0	1
57	1	4	2	0	1	1	4	0	0	0	1	0	0

1													
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9													
10	18	9	12	13	23	10	29	67	9	2	64	6	15
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15	0												
16		131	239	64	8	0	0	0	1	0	0	0	0
17	119	217	55	96	23	18	103	0	66	2	20	106	0
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21	0	0	0	0	0	0	0	0	0	0	0	0	0
22													
23	52	20	22	100	26	44	48	6	23	18	55	57	11
24	30	39	33	3	21	47	7	4	92	8	134	25	7
25	1	0	1	0	1	0	0	0	4	0	0	1	0
26	0	2	0	0	0	0	0	0	0	0	1	0	1
27	4	1	9	3	2	1	0	0	0	0	0	1	0
28	0	0	1	4	0	2	1	1	0	1	1	0	1
29													
30	96	67	75	147	122	85	105	23	282	19	147	186	170
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32	3	0	0	1	1	0	0	0	0	0	0	0	0
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34	31	85	20	96	80	157	107	12	30	27	76	92	81
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37	0	1	14	1	3	2	1	0	3	0	0	12	0
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41	1	15	9	54	3	28	17	0	32	4	23	54	21
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43													
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45													
46	11	36	0	13	59	2	9	0	26	0	38	32	3
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51	5	21	7	13	7	20	16	0	11	5	14	42	12
52	4	1	16	46	44	10	15	0	30	1	19	25	0
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27	407	801	988	659	136	2	17	6	6	1031	12	2273	550
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56	159	225	11	68	68	89	60	0	202	1	103	153	1
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8													
9	187	1205	377	217	359	29	334	2	88	22	36	8	0
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15													
16	31	4	4	2	80	4	28	5	44	36	53	17	87
17	99	511	29	581	184	443	358	171	187	193	232	315	165
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20	172	382	2	87	502	35	302	40	288	293	376	107	506
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22													
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25	32	147	6	188	90	149	83	55	87	82	131	125	109
26	2	1	2	0	0	18	0	1	2	0	0	0	0
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36	56	1	3	3	10	0	0	1	0	0	0	2	0
37	78	0	0	2	0	0	0	0	0	0	1	27	0
38													
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42	0	3	21	2	5	5	2	0	18	0	9	11	0
43	7	0	0	0	0	0	0	0	0	6	4	6	8
44													
45	13	1	1	4	1	3	3	1	1	0	1	1	3
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53													
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60	18	1	0	0	3	0	0	0	3	0	0	1	0

1													
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38	0	0	0	1	6	5	0	5	0	0	5	11	0
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51	67	14	44	95	73	68	24	14	123	49	26	42	22
52	23	10	25	31	27	16	83	26	28	47	10	25	10
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10	118	402	1302	96	398	344	399	0	255	91	589	153	282
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13	426	159	12	5	48	2	11	30	19	60	129	3	86
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16	78	90	80	96	102	114	310	53	189	38	77	43	157
17	29	339	170	46	265	204	188	113	113	42	41	138	142
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21	0	8	0	1	0	2	0	1	7	0	2	44	24
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25	22	340	5	7	14	13	10	2	31	40	25	24	22
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37	0	1	1	7	0	0	1	0	1	0	2	1	1
38	10	10	8	3	11	7	0	0	12	0	8	3	0
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45	7	9	2	13	38	2	20	0	14	5	16	1	1
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8	11	1	0	0	0	8	9	1	1	0	1	0	10
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23	278	0	0	1	3	0	0	3	1	2	8	0	0
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25	11	1	0	0	0	0	0	22	47	0	2	2	865
26	0	3	1	13	0	1	2	0	3	0	0	2	7
27	0	0	0	1	5	0	0	0	0	0	0	0	0
28	2	1	2	5	2	3	1	0	0	1	1	0	0
29	4	0	5	1	2	0	10	0	0	0	2	0	0
30	8	0	18	8	5	12	8	10	11	33	4	30	5
31	76	4	22	2	9	2	0	0	23	0	0	61	2
32	0	0	0	1	0	1	1	0	1	0	0	2	0
33	11	1	2	2	1	1	3	0	0	9	4	1	1
34	0	0	0	0	6	3	21	0	0	0	3	3	1
35	0	1	2	2	0	0	0	0	7	0	0	14	0
36	6	107	12	17	16	15	162	1	16	35	28	23	51
37	0	2	0	1	2	10	0	1	10	2	18	8	44
38	1	1	2	0	0	1	1	2	0	4	2	5	0
39	25	15	26	15	19	21	56	8	15	88	116	89	20
40	5	0	0	0	0	1	0	1	0	1	0	39	0
41	0	0	0	0	0	0	1	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0	1	0	0	0	0
43	0	0	353	70	122	30	0	0	158	0	0	13	0
44	2	77	41	207	220	57	98	1	88	13	36	30	1
45	1	2	0	1	3	3	0	0	1	0	2	0	2
46	0	0	33	68	67	0	0	0	30	6	0	9	0
47	0	3	4	6	9	3	2	0	5	0	1	0	0
48	0	3	0	2	7	1	2	0	6	1	1	2	0
49	58	30	5	14	9	23	41	84	0	100	9	3	263
50	1	0	0	6	2	1	2	0	0	0	0	0	4
51	0	0	20	45	16	0	0	0	33	0	1	1	0
52	0	2	0	0	0	2	4	0	5	0	3	0	0
53	30	9	6	2	14	3	5	0	11	9	3	0	0

1													
2	2	0	2	0	0	0	0	0	0	0	0	0	6
3	36	1	4	0	0	1	1	0	4	0	1	19	2
4	58	2	2	18	3	9	6	6	7	18	17	3	24
5	0	0	0	0	1	3	0	0	0	0	0	8	0
6	38	13	157	0	174	250	1	0	301	8	61	1279	0
7	2	0	6	0	4	12	1	0	6	0	5	32	0
8	0	0	0	0	0	0	0	21	0	4	0	0	2
9	0	5	0	3	4	11	4	8	5	2	1	5	4
10	16	13	1	1	0	22	0	5	5	7	3	44	7
11	3	0	0	1	0	2	0	7	0	2	0	0	0
12	1	1	0	0	0	0	0	2	0	2	0	0	1
13	49	3	1	2	0	4	0	7	6	3	0	5	2
14	0	0	36	24	0	5	0	0	29	0	0	137	0
15	3	1	0	1	0	0	0	1	1	0	0	1	0
16	2	0	2	2	0	2	2	0	9	1	0	4	2
17	0	5	0	0	1	0	0	0	8	0	0	43	0
18	17	0	0	0	1	1	0	1	1	3	0	0	0
19	5	4	1	0	0	2	2	2	1	0	0	1	1
20	11	2	0	1	0	1	0	1	6	0	0	0	2
21	15	1	0	0	0	0	0	4	0	4	0	0	0
22	82	27	3	8	1	26	6	16	27	16	5	20	17
23	25	22	4	12	0	12	2	17	4	15	29	0	7
24	183	1	10	5	72	53	13	86	3	255	49	0	46
25	1	0	0	2	5	8	0	11	0	15	2	0	9
26	3	0	0	0	0	0	0	0	1	0	0	0	0
27	22	1	2	1	8	2	8	0	1	22	20	4	1
28	68	0	0	0	4	13	1	0	8	26	5	18	0
29	3	0	0	0	0	0	0	0	0	3	0	0	0
30	0	0	0	1	3	2	2	0	1	0	0	0	0
31	1	3	2	4	7	2	0	0	5	0	4	5	0
32	7	53	13	25	115	11	47	2	33	2	6	11	6
33	0	8	0	13	5	0	9	0	31	2	0	0	0
34	23	53	53	14	10	0	16	17	14	183	26	0	21
35	1	0	0	0	3	0	1	2	0	25	3	3	0
36	12	17	20	9	4	16	13	6	2	78	14	1	16
37	2	6	3	2	0	0	0	2	0	7	0	0	2
38	70	8	5	16	19	2	12	13	5	50	20	4	9
39	37	6	4	18	5	2	4	1	12	40	31	9	18
40	3	6	2	1	3	2	8	0	4	2	3	0	3
41	31	123	17	20	34	31	91	5	45	9	74	12	50
42	38	7	4	4	0	3	0	10	2	7	1	0	1
43	7	0	0	0	0	6	0	1	0	2	0	0	4
44	18	0	0	0	0	0	0	3	0	5	1	11	4
45													
46													
47													
48													
49													
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51													
52													
53													
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58													
59													
60													

	T2-639	T2-640	T2-658	T2-659	T2-661	T2-657	T0-548	T1-662	T2-636	T0-614	Kingdom
5	6	3	0	0	0	2	1	0	0	0	k__Bacteria
6	10	6	0	0	34	0	12	0	0	1	k__Bacteria
7	2	0	0	0	0	0	20	0	1	1	k__Bacteria
8	0	1	1	0	0	0	5	0	1	2	k__Bacteria
9	6	1	2	0	0	4	13	0	3	18	k__Bacteria
10	2	0	3	0	0	0	0	0	0	0	k__Bacteria
11	9	0	0	1	0	0	0	0	0	0	k__Bacteria
12	0	0	0	2	1	0	0	0	0	0	k__Bacteria
13	5	0	24	89	0	0	0	0	0	0	k__Bacteria
14	5	9	4	1	1	3	0	0	1	0	k__Bacteria
15	12	0	3	42	4	1	0	21	0	0	k__Bacteria
16	9	9	3	3	1	2	0	0	3	3	k__Bacteria
17	7	3	2	0	2	2	0	0	6	0	k__Bacteria
18	1	0	0	20	0	0	3	0	0	0	k__Bacteria
19	0	0	2	0	0	0	2	0	0	0	k__Bacteria
20	90	1	69	271	23	102	1	0	0	0	k__Bacteria
21	2	0	0	3	2	3	0	0	0	0	k__Bacteria
22	2	0	0	2	0	0	5	0	0	0	k__Bacteria
23	1	0	1	0	0	0	1	0	0	0	k__Bacteria
24	17	0	8	5	13	0	33	0	0	2	k__Bacteria
25	4	0	0	5	5	0	0	0	0	1	k__Bacteria
26	0	0	0	0	0	0	0	0	0	0	k__Bacteria
27	12	12	12	3	0	80	2	0	3	1	k__Bacteria
28	25	19	24	210	8	122	2	0	4	0	k__Bacteria
29	281	0	100	74	5	0	2	0	0	0	k__Bacteria
30	0	6	0	0	0	15	0	0	1	0	k__Bacteria
31	31	0	0	0	0	0	0	0	0	0	k__Bacteria
32	0	22	11	3	6	36	30	0	32	14	k__Bacteria
33	2	0	10	12	35	38	0	0	3	0	k__Bacteria
34	0	0	1	0	0	1	2	0	4	22	k__Bacteria
35	4	0	0	0	1	0	0	0	0	0	k__Bacteria
36	0	0	0	1	12	0	10	0	0	0	k__Bacteria
37	7	0	0	0	60	0	0	0	0	0	k__Bacteria
38	1	1	14	0	0	0	1	0	8	2	k__Bacteria
39	34	4	0	0	112	0	0	0	0	0	k__Bacteria
40	14	2	1	0	59	0	0	0	0	0	k__Bacteria
41	2	1	0	2	1	0	0	0	0	0	k__Bacteria
42	4	0	7	3	2	0	0	0	0	0	k__Bacteria
43	2	2	2	17	4	6	0	0	0	0	k__Bacteria
44	4	0	4	8	0	2	0	0	0	0	k__Bacteria
45	8	0	1	10	0	0	1	0	0	0	k__Bacteria
46	8	0	1	13	0	0	0	0	0	0	k__Bacteria
47	15	0	0	3	0	0	0	0	0	0	k__Bacteria
48	9	16	49	1	8	77	15	0	17	1	k__Bacteria
49	0	0	0	0	0	2	0	0	1	0	k__Bacteria
50	2	0	1	3	0	0	2	0	0	5	k__Bacteria
51	0	0	2	0	0	0	0	0	0	2	k__Bacteria
52	2	7	5	0	4	0	2	0	8	22	k__Bacteria
53	6	0	32	15	23	0	2	0	2	0	k__Bacteria

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2	2	3	5	0	0	1	5	0	0	0 k__Bacteria
3	0	0	0	9	2	1	0	0	0	0 k__Bacteria
4	0	0	9	22	4	1	0	0	0	0 k__Bacteria
5	1	0	20	4	0	0	0	0	0	0 k__Bacteria
6	0	0	7	20	0	0	1	0	0	1 k__Bacteria
7	1	142	63	0	2	13	111	0	205	37 k__Bacteria
8	0	8	3	9	0	0	2	0	5	2 k__Bacteria
9	5	1	0	0	0	0	0	0	0	1 k__Bacteria
10	2	5	0	0	0	0	1	0	6	2 k__Bacteria
11	0	0	2	0	0	0	0	0	0	0 k__Bacteria
12	4	0	31	0	0	3	0	0	31	0 k__Bacteria
13	0	0	16	22	0	0	0	0	0	0 k__Bacteria
14	0	0	31	30	0	1	0	0	0	0 k__Bacteria
15	0	0	0	1	0	0	0	0	0	0 k__Bacteria
16	0	12	7	0	0	11	0	0	28	1 k__Bacteria
17	3	0	11	0	0	0	0	0	0	1 k__Bacteria
18	50	2	0	16	7	5	0	0	0	0 k__Bacteria
19	0	0	34	1	0	0	0	0	2	2 k__Bacteria
20	6	0	2	6	0	0	0	0	0	0 k__Bacteria
21	6	0	0	0	0	0	0	0	0	0 k__Bacteria
22	0	3	1	1	0	0	7	0	1	9 k__Bacteria
23	3	0	14	2	1	0	0	0	0	0 k__Bacteria
24	22	1	2	35	3	1	4	0	10	5 k__Bacteria
25	2	9	6	2	0	0	0	0	0	0 k__Bacteria
26	3	29	105	7	13	6	0	0	13	0 k__Bacteria
27	1	3	4	0	0	0	0	0	0	0 k__Bacteria
28	1	0	3	2	1	0	0	0	0	0 k__Bacteria
29	5	7	10	0	2	4	6	0	0	0 k__Bacteria
30	3	0	0	2	3	0	0	0	0	0 k__Bacteria
31	3	4	0	6	1	0	1	0	0	0 k__Bacteria
32	0	10	5	2	4	1	0	0	0	0 k__Bacteria
33	1	7	8	0	4	4	4	2	15	1 k__Bacteria
34	4	11	0	56	3	0	1	0	2	0 k__Bacteria
35	0	19	0	0	6	0	1	0	6	0 k__Bacteria
36	11	10	4	7	9	3	4	0	6	2 k__Bacteria
37	1	0	1	0	0	0	0	0	0	0 k__Bacteria
38	0	0	3	0	5	7	0	0	52	1 k__Bacteria
39	0	4	1	0	0	42	0	0	1	0 k__Bacteria
40	0	0	6	0	0	0	0	0	2	0 k__Bacteria
41	0	0	2	3	0	1	8	4	143	0 k__Bacteria
42	2	0	0	0	0	0	5	0	0	9 k__Bacteria
43	11	0	0	63	0	0	0	0	0	0 k__Bacteria
44	2	4	17	8	12	0	1	0	5	3 k__Bacteria
45	9	0	0	158	11	0	0	0	0	0 k__Bacteria
46	0	0	1	0	0	0	0	177	0	0 k__Bacteria
47	0	1	0	5	3	6	0	0	7	0 k__Bacteria
48	0	0	0	5	0	11	0	0	2	0 k__Bacteria
49	0	0	0	1	1	1	0	0	1	0 k__Bacteria
50	4	2	4	0	3	11	2	0	2	4 k__Bacteria
51	0	2	11	0	0	0	0	0	0	0 k__Bacteria
52	0	0	0	0	1	0	0	5	0	0 k__Bacteria
53	1	0	0	4	0	0	0	0	0	0 Unassigned

1										
2	0	0	1	0	3	0	0	2	0	0 k__Bacteria
3	1	0	0	3	1	1	0	1	0	0 k__Bacteria
4	0	0	0	0	0	0	0	67	0	0 k__Bacteria
5	0	0	0	0	0	0	0	72	0	0 k__Bacteria
6	0	0	0	0	0	0	0	1	0	0 k__Bacteria
7	0	2	1	5	14	11	0	0	0	0 k__Bacteria
8	0	0	0	0	1	0	1	0	1	0 k__Bacteria
9	0	0	0	7	0	0	0	0	0	0 k__Bacteria
10	0	0	0	7	0	0	0	0	0	0 k__Bacteria
11	0	0	10	0	0	0	0	0	0	0 k__Bacteria
12	0	0	0	0	0	0	0	0	0	0 k__Bacteria
13	1	6	2	1	37	45	1	0	0	0 k__Bacteria
14	177	88	104	13	145	33	24	12	38	50 k__Bacteria
15	0	0	2	0	2	0	3	37	1	14 k__Bacteria
16	2	1	9	2	4	0	0	0	0	0 k__Bacteria
17	18	7	3	7	14	2	0	2	2	0 k__Bacteria
18	5	12	5	2	6	14	3	10	18	11 k__Bacteria
19	0	0	0	0	0	0	0	0	0	0 k__Bacteria
20	0	49	0	0	17	2	7	1	34	17 k__Bacteria
21	0	49	0	0	17	2	7	1	34	17 k__Bacteria
22	101	46	113	178	101	132	47	597	102	28 k__Bacteria
23	0	0	0	2	0	0	0	2	0	0 k__Bacteria
24	0	0	10	1	0	0	0	0	0	0 k__Bacteria
25	0	0	10	1	0	0	0	0	0	0 k__Bacteria
26	3	2	0	3	2	5	1	4	6	1 Unassigned
27	1	0	0	1	21	0	0	4	0	0 k__Bacteria
28	0	0	0	17	20	0	1	33	0	0 k__Bacteria
29	70	0	0	20	0	0	0	0	0	1 k__Bacteria
30	0	0	0	0	0	0	0	65	0	0 k__Bacteria
31	0	0	0	0	0	0	0	65	0	0 k__Bacteria
32	0	0	0	0	2	4	1	5	17	1 k__Bacteria
33	9	1	0	1	0	0	0	0	0	0 k__Bacteria
34	13	1	3	67	0	0	0	0	0	0 k__Bacteria
35	6	0	0	0	0	0	0	0	0	0 k__Bacteria
36	0	0	0	3	9	0	0	0	0	0 k__Bacteria
37	0	0	0	3	9	0	0	0	0	0 k__Bacteria
38	86	11	14	41	154	2	2	204	1	5 k__Bacteria
39	1	0	0	0	2	2	0	3	0	0 k__Bacteria
40	0	0	0	0	0	0	0	9	0	0 k__Bacteria
41	6	0	0	0	27	2	2	4	0	0 k__Bacteria
42	5	6	4	1	24	8	0	0	1	0 k__Bacteria
43	181	28	7	45	1	0	0	0	22	1 k__Bacteria
44	3	5	8	3	2	7	2	0	25	0 k__Bacteria
45	2	4	2	2	3	6	1	15	0	2 k__Bacteria
46	2	4	2	2	3	6	1	15	0	2 k__Bacteria
47	1	0	0	0	3	6	0	11	1	0 k__Bacteria
48	0	0	4	38	0	0	0	0	0	0 k__Bacteria
49	0	0	21	0	0	0	0	0	0	0 k__Bacteria
50	0	0	0	0	0	0	0	0	2	0 k__Bacteria
51	0	13	2	10	1	6	4	10	4	10 k__Bacteria
52	0	0	7	29	1	0	0	0	0	0 k__Bacteria
53	0	0	7	29	1	0	0	0	0	0 k__Bacteria
54	0	4	1	0	2	0	1	0	0	3 k__Bacteria
55	4	93	21	2	75	30	30	0	11	49 k__Bacteria
56	1	5	1	0	1	4	1	0	0	0 k__Bacteria
57	24	10	14	20	27	8	0	23	0	0 k__Bacteria
58	47	50	50	18	125	227	6	230	13	3 k__Bacteria
59	0	3	1	0	0	5	0	0	3	0 k__Bacteria
60	0	0	2	0	0	1	0	10	0	0 k__Bacteria

1											
2	0	0	0	0	3	0	0	0	0	0	k__Bacteria
3	0	5	4	7	3	0	1	0	1	0	k__Bacteria
4	0	8	21	3	4	11	6	48	4	9	k__Bacteria
5	9	26	17	4	53	19	1	148	7	0	k__Bacteria
6	1	1	0	0	0	0	0	2	0	0	k__Bacteria
7	57	41	3	12	93	1	1	52	11	1	k__Bacteria
8	1	2	0	0	1	0	0	2	1	0	k__Bacteria
9	71	1	94	15	22	7	1	5	0	2	k__Bacteria
10	367	5	333	94	100	54	4	25	4	9	k__Bacteria
11	5	0	20	0	1	0	0	6	0	1	k__Bacteria
12	0	0	1	0	1	0	0	0	0	0	k__Bacteria
13	1	0	2	1	1	0	0	2	0	0	k__Bacteria
14	0	0	4	2	0	0	0	0	0	0	k__Bacteria
15	0	0	3	0	0	0	0	0	0	0	k__Bacteria
16	1	12	4	1	0	0	18	3	8	20	k__Bacteria
17	3	31	9	2	3	9	8	3	9	4	k__Bacteria
18	49	509	150	94	35	152	252	40	226	110	k__Bacteria
19	0	2	2	3	2	0	19	4	4	1	k__Bacteria
20	0	13	12	0	0	3	56	4	12	40	k__Bacteria
21	0	8	9	1	1	1	13	1	5	7	k__Bacteria
22	0	0	0	131	140	5	0	0	0	0	k__Bacteria
23	2	125	43	23	39	43	0	11	126	0	k__Bacteria
24	67	85	257	6	100	177	12	11	90	3	k__Bacteria
25	39	67	213	15	170	317	11	357	65	2	k__Bacteria
26	3	3	1	1	3	0	0	0	0	1	k__Bacteria
27	32	20	71	112	74	2	0	0	0	0	k__Bacteria
28	8	0	15	15	3	0	0	0	0	0	k__Bacteria
29	0	0	2	5	1	1	0	0	0	0	k__Bacteria
30	124	21	113	141	142	97	2	2	11	0	k__Bacteria
31	11	8	16	1	17	46	0	0	0	0	k__Bacteria
32	23	230	55	13	69	46	3	9	6	6	k__Bacteria
33	0	130	25	60	124	6	0	7	0	0	k__Bacteria
34	50	28	61	76	196	25	1	0	0	0	k__Bacteria
35	46	67	67	55	41	4	0	0	0	0	k__Bacteria
36	49	0	0	393	1074	4	1	2	0	0	k__Bacteria
37	0	0	0	0	0	0	6	8	1	6	k__Bacteria
38	0	37	1	0	0	5	12	0	4	12	k__Bacteria
39	0	1	0	0	0	0	2	5	3	4	k__Bacteria
40	38	59	18	1	35	55	51	174	88	23	k__Bacteria
41	0	0	0	0	0	0	10	1	1	13	k__Bacteria
42	21	25	77	10	14	40	3	0	12	1	k__Bacteria
43	0	0	0	0	0	0	12	0	0	5	k__Bacteria
44	0	5	5	0	0	2	70	0	3	44	k__Bacteria
45	0	0	0	0	0	0	23	0	2	5	k__Bacteria
46	57	65	87	7	0	43	683	73	188	333	k__Bacteria
47	0	0	2	0	0	0	38	1	4	22	k__Bacteria
48	0	5	18	3	6	11	29	5	11	17	k__Bacteria
49	0	0	2	1	1	3	1	0	4	2	k__Bacteria
50	0	0	2	0	0	1	19	2	0	6	k__Bacteria
51	0	0	0	0	0	1	1	0	0	0	k__Bacteria
52	0	3	14	2	2	2	61	8	28	67	k__Bacteria
53	0	0	3	0	0	0	2	0	1	0	k__Bacteria

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2	0	0	1	0	0	0	5	1	7	3 k__Bacteria
3	0	1	2	1	0	1	3	0	0	0 k__Bacteria
4	70	191	351	145	239	304	374	99	431	146 k__Bacteria
5	0	0	3	2	2	1	4	2	5	3 k__Bacteria
6	1	2	4	4	2	1	4	1	6	2 k__Bacteria
7	0	2	1	0	2	1	3	2	4	4 k__Bacteria
8	1	2	15	1	1	1	0	41	0	2 k__Bacteria
9	1	2	5	3	0	3	6	2	0	1 k__Bacteria
10	0	10	8	0	0	0	15	3	6	17 k__Bacteria
11	0	0	3	1	0	2	1	12	0	0 k__Bacteria
12	0	6	0	2	3	5	8	5	0	8 k__Bacteria
13	0	0	12	0	0	0	0	0	1	0 k__Bacteria
14	0	0	5	0	1	0	17	0	1	0 k__Bacteria
15	0	1	8	0	4	0	7	0	2	3 k__Bacteria
16	0	0	18	0	1	4	93	4	4	80 k__Bacteria
17	0	1	0	0	0	0	3	2	3	2 k__Bacteria
18	0	0	2	0	0	0	29	1	3	33 k__Bacteria
19	1	11	7	8	1	4	2	0	8	10 k__Bacteria
20	0	0	12	0	0	2	35	0	2	19 k__Bacteria
21	0	12	7	2	4	0	15	6	1	9 k__Bacteria
22	0	1	2	0	2	18	2	0	2	10 k__Bacteria
23	1	1	4	0	4	11	1	3	2	10 k__Bacteria
24	0	4	3	1	1	1	2	1	3	6 k__Bacteria
25	0	0	2	0	2	6	0	2	3	3 k__Bacteria
26	2	3	2	0	0	6	6	6	8	1 k__Bacteria
27	1	22	20	6	10	32	24	12	10	67 k__Bacteria
28	0	24	13	5	7	34	19	17	10	65 k__Bacteria
29	0	3	4	0	1	4	5	5	2	12 k__Bacteria
30	0	3	2	1	1	4	0	0	0	6 k__Bacteria
31	0	5	1	0	0	0	30	2	1	30 k__Bacteria
32	0	2	5	1	6	3	3	6	9	9 k__Bacteria
33	0	2	2	1	0	1	5	3	1	6 k__Bacteria
34	0	0	0	0	3	0	0	1	0	2 k__Bacteria
35	0	52	3	0	0	3	1	96	1	8 k__Bacteria
36	1	0	3	0	0	0	8	0	3	7 k__Bacteria
37	0	1	8	1	0	0	9	5	8	43 k__Bacteria
38	1	11	3	0	1	3	7	0	2	14 k__Bacteria
39	0	0	0	0	0	1	6	0	0	8 k__Bacteria
40	0	10	12	0	3	2	57	28	15	38 k__Bacteria
41	2	4	2	0	0	5	1	3	1	12 k__Bacteria
42	367	3209	2585	760	865	2057	2351	3505	3315	4417 k__Bacteria
43	0	1	1	2	0	7	1	3	1	4 k__Bacteria
44	0	0	0	0	0	0	6	0	2	2 k__Bacteria
45	2	1	10	0	4	2	27	6	11	30 k__Bacteria
46	0	0	4	1	0	0	12	1	2	20 k__Bacteria
47	0	0	27	1	0	2	6	3	8	17 k__Bacteria
48	1	1	22	1	1	2	19	2	13	64 k__Bacteria
49	2	0	6	3	1	3	19	1	14	26 k__Bacteria
50	1	3	12	6	5	0	14	13	6	22 k__Bacteria
51	0	0	0	0	0	0	7	0	1	2 k__Bacteria
52	7	10	102	6	8	24	42	23	32	169 k__Bacteria
53	0	0	26	7	2	5	0	1	10	1 k__Bacteria

1										
2	0	0	3	1	0	2	4	1	2	8 k__Bacteria
3	0	0	3	1	0	0	6	2	1	10 k__Bacteria
4	0	0	3	0	1	0	3	0	3	15 k__Bacteria
5	0	1	6	0	0	3	4	2	4	4 k__Bacteria
6	0	0	1	0	0	2	6	1	6	13 k__Bacteria
7	39	250	739	81	157	219	1555	601	1012	2875 k__Bacteria
8	0	1	10	3	0	0	8	1	7	10 k__Bacteria
9	7	11	132	12	31	70	229	28	204	509 k__Bacteria
10	75	434	1582	158	299	761	1963	583	1517	4097 k__Bacteria
11	0	0	0	0	0	0	11	0	0	9 k__Bacteria
12	1	0	5	0	1	0	4	0	4	5 k__Bacteria
13	0	0	13	0	0	4	19	2	17	26 k__Bacteria
14	0	3	13	1	2	5	8	9	13	4 k__Bacteria
15	0	2	1	0	0	0	1	3	1	5 k__Bacteria
16	1	2	3	0	2	0	6	3	0	1 k__Bacteria
17	2	37	26	6	5	22	54	45	48	77 k__Bacteria
18	1	2	2	1	3	2	1	6	2	5 k__Bacteria
19	0	0	5	0	2	4	9	4	3	15 k__Bacteria
20	1	30	27	1	8	7	26	23	37	71 k__Bacteria
21	3	7	10	0	5	7	16	9	18	43 k__Bacteria
22	1	12	21	5	0	3	87	67	0	77 k__Bacteria
23	0	6	16	2	1	4	49	13	17	37 k__Bacteria
24	0	3	6	0	0	1	16	14	2	14 k__Bacteria
25	0	3	1	0	0	0	7	2	2	16 k__Bacteria
26	0	7	3	2	1	3	7	1	2	3 k__Bacteria
27	0	0	0	1	0	0	13	0	1	0 k__Bacteria
28	2	2	4	3	0	0	6	2	17	11 k__Bacteria
29	0	0	0	2	0	0	8	0	10	7 k__Bacteria
30	8	20	0	0	0	0	0	1	0	0 k__Bacteria
31	2	2	5	0	2	0	1	10	0	0 k__Bacteria
32	48	174	167	39	17	62	39	194	2	2 k__Bacteria
33	0	6	11	0	0	1	6	16	0	0 k__Bacteria
34	1	2	18	0	1	1	34	29	8	44 k__Bacteria
35	0	0	3	0	0	0	1	2	1	0 k__Bacteria
36	0	0	0	0	0	0	0	0	4	2 k__Bacteria
37	0	62	40	0	3	2	48	1	46	2 k__Bacteria
38	0	16	17	0	2	4	17	1	8	1 k__Bacteria
39	175	127	351	17	151	165	373	802	471	232 k__Bacteria
40	3	0	9	0	1	2	7	4	0	4 k__Bacteria
41	0	0	3	0	0	0	8	7	0	1 k__Bacteria
42	10	22	27	0	23	9	8	82	10	3 k__Bacteria
43	26	83	158	7	70	38	13	220	43	9 k__Bacteria
44	0	2	10	0	0	4	42	21	2	61 k__Bacteria
45	0	3	2	0	0	0	33	4	0	9 k__Bacteria
46	31	110	110	72	97	109	532	152	203	270 k__Bacteria
47	0	1	5	3	0	3	3	8	0	4 k__Bacteria
48	0	1	0	0	0	0	0	0	0	0 k__Bacteria
49	54	16	14	46	34	28	1	9	0	2 k__Bacteria
50	0	0	3	0	0	2	0	0	0	0 k__Bacteria
51	0	0	1	0	2	4	4	0	0	2 k__Bacteria
52	0	1	1	0	0	3	1	0	1	1 k__Bacteria
53	2	0	0	0	0	7	0	0	0	0 k__Bacteria

1										
2	192	42	90	62	514	1883	39	0	78	79 k__Bacteria
3	0	0	0	0	0	3	0	0	0	0 k__Bacteria
4	0	0	3	1	4	14	6	1	2	26 k__Bacteria
5	0	0	1	0	0	2	0	0	0	0 k__Bacteria
6	12	0	0	20	3	1	0	23	0	0 k__Bacteria
7	0	1	1	0	1	4	0	0	2	0 k__Bacteria
8										
9	130	38	20	75	56	336	4	9	18	6 k__Bacteria
10	4	1	6	0	1	0	0	0	0	0 k__Bacteria
11	0	0	3	2	0	0	0	0	0	0 k__Bacteria
12	7	1	0	2	265	2	0	106	0	7 k__Bacteria
13	3	2	7	2	0	4	1	0	0	0 k__Bacteria
14	10	57	234	240	59	80	1	2	15	0 k__Bacteria
15	0	0	1	2	0	1	0	0	0	0 k__Bacteria
16	0	12	2	0	2	0	0	0	0	0 k__Bacteria
17	0	0	0	0	0	2	20	2	1	16 k__Bacteria
18	0	0	10	0	6	0	7	10	1	5 k__Bacteria
19	0	0	0	0	0	0	16	0	1	6 k__Bacteria
20	0	0	0	0	0	0	4	0	3	5 k__Bacteria
21	1	1	0	0	0	0	4	0	3	5 k__Bacteria
22	0	1	0	0	0	0	26	5	0	2 k__Bacteria
23	0	1	0	0	0	0	9	11	0	8 k__Bacteria
24	0	0	0	0	2	0	1	0	0	3 k__Bacteria
25	0	14	22	0	0	3	180	64	7	188 k__Bacteria
26	0	0	2	0	0	0	13	10	0	5 k__Bacteria
27	0	6	1	0	0	0	1	14	0	0 k__Bacteria
28	0	0	2	0	0	1	20	6	1	4 k__Bacteria
29	1	0	2	0	0	1	20	6	1	4 k__Bacteria
30	1	3	1	0	0	2	7	3	0	4 k__Bacteria
31										
32	138	266	479	30	474	252	1301	1060	273	558 k__Bacteria
33	16	8	14	7	5	9	87	2	6	54 k__Bacteria
34	1	1	1	0	0	2	11	0	0	10 k__Bacteria
35	30	14	23	2	7	11	188	4	6	104 k__Bacteria
36	4	3	8	5	10	2	9	12	10	11 k__Bacteria
37	1	0	1	0	0	1	5	0	0	0 k__Bacteria
38	6	10	50	12	91	0	6	0	34	4 k__Bacteria
39	0	8	1	0	0	1	0	16	1	2 k__Bacteria
40	0	35	11	1	0	6	0	79	4	14 k__Bacteria
41										
42	26	2022	146	7	8	310	11	1696	107	36 k__Bacteria
43	1	3	0	0	0	0	1	8	0	0 k__Bacteria
44	1	30	2	0	0	4	0	14	0	1 k__Bacteria
45	0	9	1	0	0	2	1	20	0	0 k__Bacteria
46	7	15	62	26	44	61	21	10	33	7 k__Bacteria
47	0	1	2	0	0	1	1	1	0	1 k__Bacteria
48	12	2	12	10	8	39	66	0	1	2 k__Bacteria
49	0	0	1	0	0	0	0	0	9	7 k__Bacteria
50	0	0	1	2	2	0	1	0	8	7 k__Bacteria
51	0	0	0	2	1	0	1	1	1	3 k__Bacteria
52	0	0	2	1	0	0	0	0	2	6 k__Bacteria
53	0	0	0	0	1	0	3	0	0	4 k__Bacteria
54	0	0	5	1	0	0	3	0	77	42 k__Bacteria
55	0	0	0	1	2	0	3	0	5	3 k__Bacteria
56	0	1	2	2	2	0	1	0	8	4 k__Bacteria
57	0	0	0	0	0	0	0	0	4	3 k__Bacteria
58	0	0	1	2	4	0	0	0	5	2 k__Bacteria
59										
60	0	0	1	2	4	0	0	0	5	2 k__Bacteria

1										
2	18	65	164	401	310	63	29	2	2910	272 k__Bacteria
3	0	1	9	2	0	0	0	0	0	3 k__Bacteria
4	4	1	75	18	14	0	1	1	0	62 k__Bacteria
5	20	3	32	8	13	5	3	0	2	0 k__Bacteria
6	18	53	80	0	24	118	0	1165	6	10 k__Bacteria
7	3	2	31	0	5	6	6	0	3	12 k__Bacteria
8	15	3	39	14	4	5	5	1	0	18 k__Bacteria
9	20	20	66	22	44	55	54	0	10	19 k__Bacteria
10	2	12	48	8	46	33	16	0	12	10 k__Bacteria
11	2	0	9	23	100	0	0	0	0	0 k__Bacteria
12	3	0	32	6	32	0	0	0	0	1 k__Bacteria
13	75	97	601	26	249	367	495	1	115	136 k__Bacteria
14	2	3	33	0	6	27	22	0	5	6 k__Bacteria
15	1	0	5	1	1	2	0	0	0	1 k__Bacteria
16	0	1	2	0	4	6	3	0	0	1 k__Bacteria
17	0	0	1	1	2	0	8	0	2	1 k__Bacteria
18	0	0	3	0	0	0	5	0	0	2 k__Bacteria
19	5	4	34	0	4	5	75	0	10	46 k__Bacteria
20	0	0	3	0	0	0	1	0	0	0 k__Bacteria
21	0	0	0	0	0	0	19	0	0	3 k__Bacteria
22	0	4	4	3	0	0	3	0	7	1 k__Bacteria
23	65	405	313	734	80	98	69	0	641	66 k__Bacteria
24	0	4	2	1	1	0	2	0	3	0 k__Bacteria
25	2	1	9	2	0	0	0	0	0	0 k__Bacteria
26	0	3	7	0	0	0	0	0	3	0 k__Bacteria
27	0	5	3	2	0	0	13	0	10	6 k__Bacteria
28	0	2	0	0	20	0	2	10	0	0 k__Bacteria
29	0	0	0	0	0	0	1	4	0	11 k__Bacteria
30	0	0	15	7	0	3	65	40	1	34 k__Bacteria
31	0	0	0	5	0	1	1	0	1	0 k__Bacteria
32	0	8	1	8	0	18	1	0	1	0 k__Bacteria
33	3	128	16	95	57	311	1	0	26	0 k__Bacteria
34	14	10	38	162	0	0	0	0	0	0 k__Bacteria
35	26	288	62	107	23	140	520	1	76	34 k__Bacteria
36	0	98	16	45	47	279	0	0	12	0 k__Bacteria
37	0	0	1	0	0	0	14	0	0	0 k__Bacteria
38	0	13	5	3	0	4	47	0	5	12 k__Bacteria
39	0	0	0	0	1	0	26	0	1	0 k__Bacteria
40	0	3	0	0	0	0	1	0	0	0 k__Bacteria
41	0	0	4	1	0	0	1	0	0	14 k__Bacteria
42	39	4	6	24	145	19	3	9	0	96 Unassigned
43	13	0	0	82	191	3	0	0	0	0 Unassigned
44	98	3	47	210	11	0	0	0	0	0 k__Bacteria
45	0	6	0	0	0	2	17	1	6	33 k__Bacteria
46	13	33	12	0	8	28	3	3	32	16 k__Bacteria
47	126	384	162	174	83	636	308	35	383	297 k__Bacteria
48	0	2	0	0	0	5	4	0	4	11 k__Bacteria
49	0	0	0	0	0	0	1	0	2	0 k__Bacteria
50	5	10	0	80	120	0	1	0	0	1 k__Bacteria
51	4	130	35	280	403	202	6	0	1	0 k__Bacteria
52	0	0	0	0	0	0	0	0	0	0 k__Bacteria
53	0	0	0	0	0	0	0	0	0	0 k__Bacteria

1										
2	39	27	16	2	25	12	1	0	3	1 k__Bacteria
3	0	6	7	21	0	0	0	0	2	0 k__Bacteria
4	22	4	20	22	7	13	0	5	1	3 k__Bacteria
5	0	0	14	1	0	3	12	154	33	151 k__Bacteria
6	1	0	5	0	0	0	4	3	5	23 k__Bacteria
7	0	0	7	0	0	0	5	1	6	17 k__Bacteria
8	0	0	1	0	0	0	15	0	6	6 Unassigned
9	0	19	0	14	10	78	0	1	0	1 k__Bacteria
10	8	34	11	6	16	60	22	204	23	13 k__Bacteria
11	11	1	0	15	1	0	0	0	0	0 k__Bacteria
12	0	0	1	57	7	0	0	1	0	0 k__Bacteria
13	28	166	67	49	96	56	5	31	54	46 k__Bacteria
14	0	1	0	2	4	0	0	1	0	1 k__Bacteria
15	1	14	15	0	4	0	1	0	0	0 k__Bacteria
16	0	0	0	2	1	1	5	136	4	7 k__Bacteria
17	92	52	35	37	40	13	0	0	1	0 k__Bacteria
18	2	0	0	5	1	1	0	0	1	0 k__Bacteria
19	1	0	0	18	1	0	0	0	0	0 k__Bacteria
20	76	5	49	109	158	28	1	0	0	0 k__Bacteria
21	54	80	23	6	15	7	0	16	0	1 k__Bacteria
22	94	12	116	226	26	3	0	0	10	16 k__Bacteria
23	1	0	0	0	0	0	2	1	2	2 k__Bacteria
24	4	0	1	0	0	0	4	5	3	9 k__Bacteria
25	0	0	4	0	0	0	9	3	1	8 k__Bacteria
26	1317	51	437	213	90	167	305	462	793	396 k__Bacteria
27	1	1	0	2	0	0	0	0	3	1 k__Bacteria
28	6	0	0	2	3	2	2	0	2	0 k__Bacteria
29	0	2	0	66	0	2	0	0	0	0 k__Bacteria
30	0	1	0	8	23	0	0	0	0	0 k__Bacteria
31	0	0	30	2	0	8	0	0	7	1 k__Bacteria
32	0	0	0	1	0	0	0	0	0	0 k__Bacteria
33	2	0	48	23	0	1	0	2	0	0 k__Bacteria
34	0	4	0	7	2	3	0	0	3	0 k__Bacteria
35	0	0	0	0	0	2	1	3	2	0 k__Bacteria
36	0	1	0	0	0	1	0	122	6	3 k__Bacteria
37	5	61	3	81	3	0	0	232	1	0 k__Bacteria
38	0	0	0	0	0	0	0	4	0	0 k__Bacteria
39	0	0	0	0	0	0	0	0	0	0 k__Bacteria
40	4	0	0	9	14	0	0	0	0	0 k__Bacteria
41	906	0	0	11	0	0	4	0	0	4 Unassigned
42	96	9	10	5	3	0	1	0	4	8 k__Bacteria
43	11	0	0	3	0	0	0	0	0	0 k__Bacteria
44	58	2	1	8	141	13	18	5	0	0 k__Bacteria
45	7	0	0	0	1	0	1	0	0	0 k__Bacteria
46	97	0	0	10	14	4	10	0	0	0 k__Bacteria
47	0	0	0	0	0	0	0	0	0	0 k__Bacteria
48	186	0	0	100	0	0	0	0	0	0 k__Bacteria
49	1	1	4	2	3	4	1	0	0	0 k__Bacteria
50	58	71	42	62	73	36	1	23	3	0 k__Bacteria
51	2	5	0	17	19	10	0	52	5	20 k__Bacteria
52	1	0	0	9	1	1	1	3	0	0 k__Bacteria
53	1	2	2	2	0	1	0	0	0	0 k__Bacteria

1											
2	0	2	1	2	2	0	0	26	0	0 k__Bacteria	
3	0	0	0	0	1	0	0	22	0	1 k__Bacteria	
4	1	6	0	2	3	0	2	66	0	0 k__Bacteria	
5	7	9	3	15	36	3	1	18	2	1 k__Bacteria	
6	0	1	1	0	9	0	1	80	0	4 k__Bacteria	
7	21	25	9	19	21	18	0	1	1	0 k__Bacteria	
8	1	0	0	1	0	1	0	13	2	7 k__Bacteria	
9	74	15	5	30	20	67	8	12	113	1 k__Bacteria	
10	0	0	0	0	0	0	0	48	0	0 k__Bacteria	
11	0	0	0	0	0	0	0	3	0	0 k__Bacteria	
12	4	1	0	0	0	0	0	11	3	3 k__Bacteria	
13	0	0	0	0	0	0	1	4	0	1 k__Bacteria	
14	1	0	0	21	1	0	0	0	0	0 k__Bacteria	
15	132	128	292	156	53	1	7	1	121	7 k__Bacteria	
16	0	0	1	1	0	0	0	0	2	0 k__Bacteria	
17	0	0	0	2	1	0	0	0	0	0 k__Bacteria	
18	0	1	0	0	0	0	0	25	0	1 k__Bacteria	
19	0	0	0	0	0	0	0	0	0	0 k__Bacteria	
20	0	0	0	0	0	0	0	0	0	0 k__Bacteria	
21	130	55	50	11	74	48	21	0	28	0 k__Bacteria	
22	305	17	239	11	24	13	6	106	32	16 k__Bacteria	
23	10	3	7	0	1	0	2	2	0	0 k__Bacteria	
24	0	0	6	0	0	0	0	1	0	3 k__Bacteria	
25	23	0	1	0	10	1	0	0	0	0 k__Bacteria	
26	0	0	6	0	0	2	2	1	2	6 k__Bacteria	
27	239	225	157	13	97	218	58	16	272	74 k__Bacteria	
28	4	3	9	1	1	5	0	0	4	0 k__Bacteria	
29	1	0	1	1	0	0	0	1	2	0 k__Bacteria	
30	48	13	9	1	17	1	30	233	7	10 k__Bacteria	
31	50	60	66	30	84	57	92	57	108	48 k__Bacteria	
32	0	1	2	2	6	0	2	3	2	0 k__Bacteria	
33	18	3	1	0	0	0	0	0	0	0 k__Bacteria	
34	0	0	0	5	0	32	0	0	0	0 k__Bacteria	
35	23	5	0	36	69	0	1	0	0	0 k__Bacteria	
36	3	3	1	7	12	3	0	1	0	0 k__Bacteria	
37	8	13	4	0	0	0	1	11	1	7 k__Bacteria	
38	23	40	12	9	54	30	24	63	35	0 k__Bacteria	
39	0	0	0	3	1	2	0	0	0	0 k__Bacteria	
40	0	9	1	1	3	0	0	0	3	63 k__Bacteria	
41	190	57	6	24	88	1	3	62	1	9 k__Bacteria	
42	0	0	5	0	0	0	0	0	0	2 k__Bacteria	
43	73	262	0	36	142	28	8	0	0	0 k__Bacteria	
44	1	10	0	0	7	0	0	0	0	0 k__Bacteria	
45	34	2	8	54	22	25	1	0	2	0 k__Bacteria	
46	4	8	9	7	9	7	4	0	7	8 k__Bacteria	
47	71	27	7	27	20	15	1	0	3	0 k__Bacteria	
48	5	0	2	7	0	1	0	0	0	0 k__Bacteria	
49	36	0	0	50	9	52	3	0	0	0 k__Bacteria	
50	111	1	0	47	26	0	1	0	0	1 k__Bacteria	
51	14	24	6	5	2	12	6	0	15	0 k__Bacteria	
52	14	1	6	19	2	11	1	0	0	0 k__Bacteria	
53	1	10	5	0	9	5	15	14	14	1 k__Bacteria	
54	5	3	3	0	4	3	2	0	2	0 Unassigned	

1										
2	1	0	6	2	1	0	16	0	12	1 Unassigned
3	3	0	0	0	0	0	0	0	0	0 Unassigned
4	117	0	0	13	0	0	0	0	0	0 k__Bacteria
5	0	0	0	338	0	0	0	0	0	0 k__Bacteria
6	2	5	3	2	30	8	1	116	14	0 k__Bacteria
7	12	48	74	2	57	91	29	1259	54	11 k__Bacteria
8	0	0	0	39	0	0	0	0	0	0 k__Bacteria
9	0	0	0	1	0	0	2	4	1	0 k__Bacteria
10	16	0	9	0	1	5	189	49	39	21 k__Bacteria
11	0	0	0	0	0	0	9	0	2	0 k__Bacteria
12	0	0	0	0	27	0	2	2	0	14 k__Bacteria
13	0	1	0	0	4	2	3	4	3	0 k__Bacteria
14	0	14	0	1	10	7	4	0	18	0 k__Bacteria
15	0	28	0	8	26	38	1	0	59	2 k__Bacteria
16	1	6	0	0	1	5	0	1	7	0 k__Bacteria
17	0	10	0	0	1	0	0	0	5	0 k__Bacteria
18	0	4	0	0	8	0	0	0	6	0 k__Bacteria
19	2	3	0	2	8	1	29	25	0	19 k__Bacteria
20	1	0	0	1	3	0	0	8	0	1 k__Bacteria
21	0	0	0	0	2	0	1	3	0	0 k__Bacteria
22	0	0	0	0	3	0	2	2	0	0 k__Bacteria
23	0	0	0	0	0	0	0	3	0	0 k__Bacteria
24	25	45	12	64	279	61	101	1162	7	36 k__Bacteria
25	0	0	0	0	1	0	0	7	0	0 k__Bacteria
26	0	0	0	1	7	3	2	17	0	2 k__Bacteria
27	65	0	4	21	5	0	1	1	3	41 k__Bacteria
28	1	0	0	0	0	1	0	0	0	0 k__Bacteria
29	0	1	0	1	6	1	0	2	0	18 k__Bacteria
30	0	0	0	0	0	0	0	0	0	0 k__Bacteria
31	1	3	0	0	3	2	0	14	5	2 k__Bacteria
32	6	7	1	2	15	6	6	127	16	8 k__Bacteria
33	80	14	6	4	34	0	0	0	5	0 k__Bacteria
34	1	2	2	0	1	0	21	0	10	1 k__Bacteria
35	17	10	19	4	27	20	59	0	18	2 k__Bacteria
36	6	6	2	0	0	0	1	24	9	0 k__Bacteria
37	10	8	5	2	0	1	2	0	7	1 k__Bacteria
38	24	34	19	23	3	0	0	0	4	0 k__Bacteria
39	18	3	0	1	3	0	0	4	2	0 k__Bacteria
40	1	0	1	0	0	2	2	2	8	0 k__Bacteria
41	23	2	0	0	10	0	10	136	1	3 k__Bacteria
42	2	1	0	0	0	0	0	0	0	0 k__Bacteria
43	99	6	0	4	0	0	0	0	0	9 k__Bacteria
44	53	0	0	10	0	0	0	0	0	0 k__Bacteria
45	0	0	0	1	1	0	0	0	0	0 k__Bacteria
46	1	0	1	3	4	0	0	193	0	0 k__Bacteria
47	18	0	2	191	267	2	1	0	0	1 k__Bacteria
48	15	23	17	43	87	40	4	3	6	1 k__Bacteria
49	50	68	95	15	173	218	6	0	9	1 k__Bacteria
50	16	13	0	32	8	1	3	0	2	0 k__Bacteria
51	0	0	0	8	0	0	0	0	0	0 k__Bacteria
52	13	0	0	47	0	0	0	0	0	0 k__Bacteria
53	51	0	7	11	0	1	0	0	0	0 k__Bacteria

1										
2	1	0	9	3	0	0	0	0	0	0 k__Bacteria
3	16	0	0	6	0	0	0	0	0	0 k__Bacteria
4	0	0	0	29	0	0	2	0	0	0 k__Bacteria
5	5	18	13	2	28	69	5	0	4	0 k__Bacteria
6	6	21	0	0	0	1	0	0	23	0 k__Bacteria
7	0	0	0	0	0	0	5	0	0	0 k__Bacteria
8										
9	43	161	92	115	1181	25	71	0	183	0 k__Bacteria
10	4	5	0	50	94	0	0	0	0	0 k__Bacteria
11	0	5	13	0	0	8	19	38	73	0 k__Bacteria
12	6	0	9	2	3	0	8	0	0	0 k__Bacteria
13	22	0	0	0	1	0	0	0	0	0 Unassigned
14	0	0	0	0	0	0	0	0	0	0 k__Bacteria
15	4	2	120	46	32	3	18	17	3	1 k__Bacteria
16										
17	33	141	242	109	44	225	64	58	202	17 k__Bacteria
18	0	1	0	0	0	0	3	0	0	0 k__Bacteria
19	0	4	14	2	1	0	4	1	5	1 k__Bacteria
20	35	79	567	271	38	9	170	60	123	26 k__Bacteria
21	2	1	6	4	0	1	7	1	1	0 k__Bacteria
22	1	1	2	2	0	0	0	0	0	0 k__Bacteria
23	0	1	4	0	0	0	5	7	0	2 k__Bacteria
24										
25	2	50	115	38	15	72	28	20	62	4 k__Bacteria
26	0	0	2	0	0	0	4	6	1	0 k__Bacteria
27	0	0	0	0	1	0	0	0	0	0 k__Bacteria
28	3	0	0	0	3	0	2	0	0	0 k__Bacteria
29	10	0	6	0	3	0	14	62	0	0 k__Bacteria
30	0	0	0	0	0	0	0	0	0	0 k__Bacteria
31	0	0	0	0	0	0	0	0	0	0 k__Bacteria
32	3	2	0	0	0	0	0	0	0	0 k__Bacteria
33	0	0	0	2	0	0	0	0	0	0 k__Bacteria
34	24	2	0	4	0	0	3	0	0	0 k__Bacteria
35	9	0	0	1	0	1	0	0	0	0 k__Bacteria
36	2	1	0	9	3	2	0	0	0	0 k__Bacteria
37	0	0	0	0	0	0	0	0	0	0 k__Bacteria
38	0	0	0	0	0	0	0	0	0	0 k__Bacteria
39	0	1	0	0	0	0	0	0	0	0 k__Bacteria
40	0	0	2	3	1	5	0	0	5	0 k__Bacteria
41	0	0	8	4	4	0	1	0	0	0 k__Bacteria
42	30	3	10	19	14	26	0	0	0	0 k__Bacteria
43	0	0	3	0	0	0	5	0	5	0 k__Bacteria
44										
45	37	1	1	10	8	0	0	0	3	0 k__Bacteria
46	6	0	0	0	0	0	0	0	0	0 k__Bacteria
47	19	0	0	0	0	0	2	0	0	0 k__Bacteria
48	2	1	2	7	13	3	1	0	0	0 k__Bacteria
49	14	0	0	55	3	2	0	0	2	0 k__Bacteria
50	56	1	7	30	4	7	1	0	2	0 k__Bacteria
51	82	13	1	11	9	7	2	0	0	1 k__Bacteria
52	6	1	3	0	0	0	0	0	0	0 k__Bacteria
53										
54	74	10	11	4	4	2	4	0	2	0 k__Bacteria
55	7	0	1	0	0	0	0	0	6	0 k__Bacteria
56	19	6	0	12	0	0	0	0	0	0 k__Bacteria
57	34	1	3	4	0	1	2	0	11	0 k__Bacteria
58	0	0	0	133	6	0	0	0	0	0 k__Bacteria
59	2	0	1	0	0	0	2	0	21	0 k__Bacteria
60	14	0	1	0	0	0	0	0	0	0 k__Bacteria

1										
2	4	0	1	0	0	0	0	0	2	0 k__Bacteria
3	88	0	2	3	0	0	0	0	0	0 k__Bacteria
4	107	0	0	4	2	1	0	0	0	0 k__Bacteria
5	5	0	0	0	0	3	0	0	1	1 k__Bacteria
6	6	1	2	3	4	0	1	0	0	0 k__Bacteria
7	77	0	4	31	0	3	0	0	2	1 k__Bacteria
8	4	2	0	0	1	0	0	0	2	0 k__Bacteria
9	104	0	0	0	1	0	0	0	0	0 k__Bacteria
10	71	0	0	11	0	5	0	0	0	0 k__Bacteria
11	5	0	0	0	0	0	0	0	0	0 k__Bacteria
12	133	0	6	7	0	0	0	0	0	1 k__Bacteria
13	1	0	0	3	0	0	0	0	0	0 k__Bacteria
14	28	0	0	31	0	0	5	0	0	2 k__Bacteria
15	51	0	0	0	1	0	0	0	0	0 k__Bacteria
16	10	1	9	0	9	1	0	0	0	0 k__Bacteria
17	2	0	0	0	0	0	0	0	0	0 k__Bacteria
18	41	0	3	0	0	0	0	0	1	0 k__Bacteria
19	0	0	0	0	0	0	0	1	1	0 k__Bacteria
20	16	1	4	0	6	3	0	0	7	0 k__Bacteria
21	371	0	1	3	1	0	2	0	0	0 k__Bacteria
22	3	0	0	0	0	0	0	0	0	0 k__Bacteria
23	0	0	0	0	0	0	4	0	0	0 k__Bacteria
24	0	0	2	1	2	3	0	2	0	0 k__Bacteria
25	0	0	0	2	2	0	0	10	0	0 k__Bacteria
26	2	0	0	4	10	0	0	0	0	0 k__Bacteria
27	2	4	11	0	6	1	17	4	4	0 k__Bacteria
28	0	0	0	0	0	0	0	0	0	0 k__Bacteria
29	9	0	6	0	6	4	2	4	0	0 k__Bacteria
30	0	0	0	0	0	0	0	0	0	0 k__Bacteria
31	8	0	1	2	4	0	0	0	0	0 k__Bacteria
32	0	0	0	0	0	0	0	0	0	0 k__Bacteria
33	0	0	0	0	7	0	0	0	0	0 k__Bacteria
34	5	0	0	0	0	0	5	10	0	0 k__Bacteria
35	0	0	0	0	7	0	2	0	2	0 k__Bacteria
36	0	0	0	0	1	2	0	0	0	0 k__Bacteria
37	1	3	0	2	0	4	9	12	0	1 k__Bacteria
38	1	0	0	0	3	2	0	0	0	0 k__Bacteria
39	0	14	1	5	44	9	0	1	0	0 k__Bacteria
40	1	4	0	0	8	1	2	2	0	1 k__Bacteria
41	0	0	1	0	0	0	0	0	0	0 k__Bacteria
42	0	19	12	9	25	8	0	0	6	0 k__Bacteria
43	5	13	0	0	2	1	0	3	1	0 k__Bacteria
44	1	4	0	0	0	2	0	1	0	0 k__Bacteria
45	0	3	0	2	1	2	1	29	3	0 k__Bacteria
46	0	0	15	6	0	0	0	0	3	0 k__Bacteria
47	1	0	0	0	0	1	0	0	3	0 k__Bacteria
48	0	0	5	1	0	3	1	14	5	7 k__Bacteria
49	2	1	0	0	0	0	0	2	0	21 k__Bacteria
50	182	14	36	67	10	92	17	43	55	13 k__Bacteria
51	126	15	1	8	24	23	11	6	37	2 k__Bacteria
52	5	0	0	0	1	0	0	0	1	0 k__Bacteria
53	10	2	1	0	4	3	2	1	4	0 k__Bacteria

1										
2	0	1	2	0	0	1	2	1	0	6 k__Bacteria
3	61	9	51	14	11	41	28	156	95	107 k__Bacteria
4	0	3	5	1	0	2	0	10	5	3 k__Bacteria
5	0	0	0	0	0	0	10	0	3	53 k__Bacteria
6	1	2	8	14	4	13	7	2	18	9 k__Bacteria
7	0	0	1	0	0	0	7	0	59	50 k__Bacteria
8	3	11	16	0	1	4	0	1	27	0 k__Bacteria
9	1	13	58	2	7	43	4	1	50	31 k__Bacteria
10	21	320	296	446	343	1128	4	2	205	8 k__Bacteria
11	45	22	5	200	46	13	0	0	24	0 k__Bacteria
12	0	1	0	39	0	0	15	1	4	1 k__Bacteria
13	16	0	12	5	2	5	147	1	131	90 k__Bacteria
14	0	2	4	1	1	9	3	1	2	4 k__Bacteria
15	0	2	0	1	0	3	0	5	2	4 k__Bacteria
16	18	111	233	62	55	336	102	27	104	111 k__Bacteria
17	22	75	94	84	45	196	420	43	123	317 k__Bacteria
18	5	0	1	3	2	0	0	0	2	0 k__Bacteria
19	19	6	2	10	6	8	1	0	0	0 k__Bacteria
20	0	0	0	0	3	4	0	0	0	0 k__Bacteria
21	2	14	5	2	37	27	0	2	0	0 k__Bacteria
22	2	1	6	2	23	22	1	28	2	5 k__Bacteria
23	0	1	0	2	0	0	3	0	0	0 k__Bacteria
24	0	1	0	0	0	0	2	4	2	0 k__Bacteria
25	27	51	14	46	51	54	14	1	19	1 k__Bacteria
26	25	7	10	13	14	6	4	1	1	0 k__Bacteria
27	4	3	3	1	0	0	1	0	1	0 k__Bacteria
28	2	12	12	9	16	17	0	0	2	0 k__Bacteria
29	25	23	2	22	8	6	0	0	4	0 k__Bacteria
30	14	0	3	6	4	0	0	0	0	0 k__Bacteria
31	0	1	0	7	1	5	0	0	7	0 k__Bacteria
32	1	0	0	3	0	2	0	16	1	0 k__Bacteria
33	41	6	19	44	11	39	15	3	1	3 k__Bacteria
34	9	0	7	4	1	10	5	0	0	1 k__Bacteria
35	3	0	0	2	0	1	0	0	0	0 k__Bacteria
36	7	18	0	16	7	19	0	0	5	1 k__Bacteria
37	0	0	0	3	0	1	0	0	0	0 k__Bacteria
38	4	1	10	2	0	0	1	0	1	0 k__Bacteria
39	2	0	0	12	2	0	0	0	0	0 k__Bacteria
40	0	0	1	1	2	0	0	0	0	1 k__Bacteria
41	65	2	0	1	0	0	0	0	0	0 k__Bacteria
42	8	0	0	2	0	1	0	0	0	0 k__Bacteria
43	0	0	4	0	2	0	0	0	0	1 k__Bacteria
44	0	4	1	12	1	6	0	0	0	0 k__Bacteria
45	10	0	15	12	20	2	0	0	0	0 k__Bacteria
46	0	0	0	1	2	1	0	0	0	0 k__Bacteria
47	3	0	0	0	2	0	1	0	0	3 k__Bacteria
48	0	2	0	0	0	1	0	0	0	2 k__Bacteria
49	31	21	15	28	4	16	0	0	0	0 k__Bacteria
50	0	0	1	2	0	0	0	0	0	0 k__Bacteria
51	3	0	1	0	0	0	0	0	0	0 k__Bacteria
52	9	0	0	5	0	2	0	0	0	0 k__Bacteria
53	0	0	0	5	0	0	2	0	0	0 k__Bacteria
54	0	0	0	5	0	0	2	0	0	0 k__Bacteria
55	0	0	0	5	0	0	2	0	0	0 k__Bacteria
56	0	0	0	5	0	0	2	0	0	0 k__Bacteria
57	0	0	0	5	0	0	2	0	0	0 k__Bacteria
58	0	0	0	5	0	0	2	0	0	0 k__Bacteria
59	0	0	0	5	0	0	2	0	0	0 k__Bacteria
60	0	0	0	5	0	0	2	0	0	0 k__Bacteria

1										
2	0	43	0	2	10	18	1	0	0	0 k__Bacteria
3	4	7	2	8	1	5	0	0	0	0 k__Bacteria
4	0	3	0	0	0	0	4	0	0	0 k__Bacteria
5	20	0	1	7	4	9	0	0	0	0 k__Bacteria
6	0	0	1	0	0	0	0	0	0	0 k__Bacteria
7	0	1	4	0	4	7	0	0	1	0 k__Bacteria
8	0	2	3	0	3	5	0	0	0	10 k__Bacteria
9										
10	7	31	40	49	18	84	9	0	34	27 k__Bacteria
11	0	0	0	0	0	0	0	0	0	0 k__Bacteria
12	0	0	0	9	0	0	0	0	0	0 k__Bacteria
13	2	6	7	0	0	91	3	0	7	5 k__Bacteria
14	0	0	3	1	0	6	7	0	0	0 k__Bacteria
15	2	2	2	4	1	0	0	0	2	0 k__Bacteria
16	3	0	0	2	0	0	1	0	0	0 k__Bacteria
17	2	0	0	0	1	0	0	0	0	0 k__Bacteria
18	0	1	5	0	1	4	7	0	6	3 k__Bacteria
19	0	0	50	0	0	0	0	0	2	0 k__Bacteria
20	8	0	1	42	0	0	2	0	0	0 k__Bacteria
21	3	0	0	0	7	0	0	0	3	0 k__Bacteria
22	0	0	0	0	1	4	3	0	0	2 k__Bacteria
23	0	0	0	0	1	4	3	0	0	2 k__Bacteria
24	3	1	2	9	1	1	0	0	0	0 k__Bacteria
25	6	0	0	5	0	0	0	0	0	0 k__Bacteria
26	4	1	3	5	4	0	0	0	0	0 k__Bacteria
27	4	1	3	5	4	0	0	0	0	0 k__Bacteria
28	20	0	0	0	0	0	1	0	0	0 k__Bacteria
29	2	2	2	0	0	1	0	0	0	0 k__Bacteria
30	0	0	0	1	9	0	0	0	0	0 k__Bacteria
31	0	0	0	1	9	0	0	0	0	0 k__Bacteria
32	14	4	0	6	9	2	0	0	0	1 k__Bacteria
33	7	2	0	0	2	0	0	0	0	0 k__Bacteria
34	3	0	3	0	1	4	0	0	0	0 k__Bacteria
35	2	1	1	0	0	0	0	0	0	0 k__Bacteria
36	6	0	0	9	0	0	0	0	0	0 k__Bacteria
37	0	0	2	0	4	4	3	0	1	3 k__Bacteria
38	2	3	1	1	5	5	0	0	2	5 k__Bacteria
39	2	3	1	1	5	5	0	0	2	5 k__Bacteria
40	3	0	0	0	3	8	0	0	0	0 k__Bacteria
41	11	2	0	1	0	3	0	0	0	0 k__Bacteria
42	11	25	18	30	34	2	2	0	2	8 k__Bacteria
43	0	7	0	1	1	1	1	0	1	0 k__Bacteria
44	46	5	7	6	2	0	2	0	23	0 k__Bacteria
45	22	0	3	2	1	0	0	0	0	0 k__Bacteria
46	12	2	1	2	0	3	0	0	0	0 k__Bacteria
47	12	2	1	2	0	3	0	0	0	0 k__Bacteria
48	55	15	1	89	8	0	0	0	0	0 k__Bacteria
49	0	0	0	0	0	0	12	0	21	6 k__Bacteria
50	28	1	0	16	7	1	0	0	1	0 k__Bacteria
51	70	45	60	30	21	42	60	1	167	22 k__Bacteria
52	1	2	4	2	2	6	4	1	5	3 k__Bacteria
53	0	1	4	1	0	1	3	0	8	1 k__Bacteria
54	0	1	4	1	0	1	3	0	8	1 k__Bacteria
55	26	0	2	30	5	2	1	0	0	0 k__Bacteria
56	3	7	1	0	1	3	0	0	2	0 k__Bacteria
57	0	2	5	3	1	8	4	0	2	0 k__Bacteria
58	0	2	5	3	1	8	4	0	2	0 k__Bacteria
59	63	19	43	8	10	43	24	0	44	2 k__Bacteria
60	4	14	28	4	9	30	16	0	44	6 k__Bacteria
	1	1	0	0	0	1	0	0	1	1 k__Bacteria

1										
2	8	7	3	10	5	4	5	0	10	1 k__Bacteria
3	1	0	0	0	0	0	0	0	0	0 k__Bacteria
4	15	0	1	20	0	1	0	0	4	0 k__Bacteria
5	4	0	0	2	5	0	0	0	0	0 k__Bacteria
6	14	0	0	55	2	0	0	0	0	0 k__Bacteria
7	2	1	1	7	1	4	0	0	5	1 k__Bacteria
8	3	9	0	6	0	4	0	0	0	0 k__Bacteria
9										
10	30	4	2	154	43	0	3	0	1	0 k__Bacteria
11	13	0	0	6	0	2	0	0	0	0 k__Bacteria
12	144	10	3	488	6	1	3	0	0	0 k__Bacteria
13	18	0	0	3	2	0	0	0	0	0 k__Bacteria
14	7	0	0	8	0	0	0	0	0	0 k__Bacteria
15										
16	165	10	2	152	31	1	1	0	0	0 k__Bacteria
17	2	21	1	4	0	10	0	0	0	1 k__Bacteria
18	5	0	0	22	0	0	2	0	0	0 k__Bacteria
19	32	32	8	101	19	24	64	0	48	9 k__Bacteria
20	15	1	0	52	0	0	1	0	1	0 k__Bacteria
21	1	0	0	418	1	0	1	0	0	0 k__Bacteria
22										
23	14	0	3	9	18	0	0	0	0	0 k__Bacteria
24	2	0	0	4	0	0	2	0	1	0 k__Bacteria
25	24	0	3	0	0	0	0	0	0	0 k__Bacteria
26	3	0	0	2	1	0	0	0	6	0 k__Bacteria
27	661	51	13	85	8	10	8	2	58	15 k__Bacteria
28	1	1	0	152	10	0	0	0	0	0 k__Bacteria
29	10	0	0	2	1	0	0	0	0	0 k__Bacteria
30										
31	201	3	19	87	3	34	2	0	27	0 k__Bacteria
32	181	28	28	108	7	23	27	0	27	2 k__Bacteria
33	3	0	0	1	1	2	0	0	0	0 k__Bacteria
34	1	0	1	3	1	0	1	0	0	0 k__Bacteria
35	0	0	4	0	0	1	3	0	0	0 k__Bacteria
36	8	4	79	0	0	6	55	0	55	5 k__Bacteria
37	2	2	6	11	1	1	0	0	2	0 k__Bacteria
38										
39	7	1	5	6	6	43	3	0	3	14 k__Bacteria
40	0	13	13	0	1	19	10	10	16	42 k__Bacteria
41	0	3	2	4	0	7	0	0	0	0 k__Bacteria
42	1	0	0	3	1	0	1	0	0	1 k__Bacteria
43	0	1	0	7	0	2	2	0	1	0 k__Bacteria
44	0	7	2	19	8	16	1	0	12	0 k__Bacteria
45	0	5	2	0	11	4	0	0	0	0 k__Bacteria
46										
47	20	0	0	18	0	0	0	0	0	0 k__Bacteria
48	7	17	0	6	5	20	6	0	5	8 k__Bacteria
49	1	2	0	5	2	0	2	0	4	0 k__Bacteria
50	0	1	5	0	0	0	0	0	10	6 k__Bacteria
51	5	0	0	0	1	1	2	0	0	0 k__Bacteria
52										
53	18	10	3	10	2	1	1	0	0	0 k__Bacteria
54	7	0	3	6	4	1	0	1	0	0 k__Bacteria
55	0	0	2	0	0	1	3	10	6	5 k__Bacteria
56	0	0	0	0	0	0	0	14	0	0 k__Bacteria
57	0	2	6	0	1	0	5	0	6	1 k__Bacteria
58	0	0	0	0	0	1	2	4	0	0 k__Bacteria
59	40	0	0	0	1	0	0	0	0	0 k__Bacteria
60	1	2	0	1	0	2	0	0	3	0 k__Bacteria

1										
2	0	4	0	0	2	2	1	0	1	0 k__Bacteria
3	6	0	5	0	0	2	2	0	4	11 k__Bacteria
4	13	15	51	46	19	33	18	0	59	3 k__Bacteria
5	0	0	0	0	0	9	18	1	3	13 k__Bacteria
6	7	14	1	3	2	3	24	3	15	20 k__Bacteria
7	69	2	24	119	7	2	0	2	83	2 k__Bacteria
8	14	10	35	3	1	4	5	0	102	0 k__Bacteria
9	37	86	116	41	56	68	8	0	96	43 k__Bacteria
10	2	2	2	1	1	0	1	0	0	1 k__Bacteria
11	3	2	0	2	0	0	0	0	2	0 k__Bacteria
12	2	3	1	3	0	10	9	0	7	6 k__Bacteria
13	3	1	3	1	0	4	4	0	4	1 k__Bacteria
14	48	48	63	63	55	119	29	0	72	14 k__Bacteria
15	8	28	38	16	11	65	19	0	65	9 k__Bacteria
16	3	7	18	22	5	23	16	0	51	12 k__Bacteria
17	0	1	4	0	1	1	4	0	5	0 k__Bacteria
18	32	20	34	76	58	7	0	0	0	0 k__Bacteria
19	3	4	10	5	25	8	1	0	12	1 k__Bacteria
20	5	12	7	6	7	2	0	0	0	0 k__Bacteria
21	0	2	1	0	0	0	2	0	0	0 k__Bacteria
22	3	4	8	2	5	9	8	0	7	0 k__Bacteria
23	17	12	12	31	16	27	7	2	8	0 k__Bacteria
24	64	4	16	9	13	16	17	13	39	2 k__Bacteria
25	36	56	137	17	132	106	3	1	134	0 k__Bacteria
26	0	1	3	0	0	1	0	0	5	0 k__Bacteria
27	0	111	10	28	5	308	161	1	10	2 k__Bacteria
28	2	5	44	0	6	42	116	138	112	60 k__Bacteria
29	0	0	2	0	0	1	1	2	20	4 k__Bacteria
30	9	26	20	42	20	52	17	0	29	1 k__Bacteria
31	29	0	0	20	9	0	0	0	0	0 k__Bacteria
32	21	16	8	0	4	4	11	11	9	1 k__Bacteria
33	52	94	18	46	24	6	19	12	47	19 k__Bacteria
34	10	12	5	0	0	16	3	0	113	0 k__Bacteria
35	2	7	0	0	0	0	2	0	2	1 k__Bacteria
36	313	3	12	35	24	36	5	1	29	0 k__Bacteria
37	0	19	16	4	5	57	2	0	5	2 k__Bacteria
38	0	4	3	1	1	9	3	0	1	0 k__Bacteria
39	86	13	18	157	26	16	0	0	3	0 k__Bacteria
40	0	0	4	5	0	2	0	0	4	0 k__Bacteria
41	0	0	0	3	1	1	0	0	1	0 k__Bacteria
42	5	18	15	7	6	48	4	13	18	1 k__Bacteria
43	113	32	9	179	52	57	5	1	25	2 k__Bacteria
44	1	23	184	2	2	0	0	0	0	0 k__Bacteria
45	130	7	13	47	3	49	10	0	21	0 k__Bacteria
46	34	4	6	8	1	3	1	0	3	0 k__Bacteria
47	0	0	0	1	2	3	0	0	2	0 k__Bacteria
48	3	1	0	1	2	1	0	0	0	0 k__Bacteria
49	3	1	0	3	0	0	1	0	0	0 k__Bacteria
50	81	6	2	6	6	11	10	2	10	9 k__Bacteria
51	6	10	1	1	17	51	0	0	16	1 k__Bacteria
52	11	7	2	279	13	15	2	0	6	0 k__Bacteria
53	0	8	1	2	0	2	1	0	1	3 k__Bacteria

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2	1	0	0	3	0	0	2	0	1	0 k__Bacteria
3	0	0	1	0	0	0	3	2	1	0 k__Bacteria
4	0	0	2	0	0	0	1	5	5	6 k__Bacteria
5	8	13	7	9	10	4	3	0	0	1 k__Bacteria
6	0	1	4	5	1	0	0	0	4	0 k__Bacteria
7	1	0	2	8	2	14	0	1	0	0 k__Bacteria
8	3	0	0	0	0	0	0	0	0	0 k__Bacteria
9	0	0	0	6	15	1	0	1	10	0 k__Bacteria
10	0	1	0	7	0	9	0	0	8	0 k__Bacteria
11	15	11	3	18	1	6	5	0	4	5 k__Bacteria
12	0	5	2	10	6	0	2	0	0	0 k__Bacteria
13	1	3	2	0	0	0	9	0	4	0 k__Bacteria
14	1	0	21	29	0	9	13	0	2	20 k__Bacteria
15	5	2	0	107	1	0	0	0	0	0 k__Bacteria
16	9	2	3	0	0	1	0	0	5	0 k__Bacteria
17	0	0	0	1	0	1	0	0	2	0 k__Bacteria
18	38	0	0	36	0	0	0	0	0	1 k__Bacteria
19	0	0	22	10	0	1	4	0	0	0 k__Bacteria
20	1	125	6	0	18	39	20	0	104	3 k__Bacteria
21	0	2	3	2	0	1	0	3	0	0 k__Bacteria
22	10	2	21	11	0	0	2	93	3	26 k__Bacteria
23	0	0	0	3	0	2	0	0	4	1 k__Bacteria
24	5	3	10	47	0	0	0	0	0	0 k__Bacteria
25	0	0	0	0	0	0	0	0	0	0 k__Bacteria
26	39	0	0	407	0	0	0	0	0	0 k__Bacteria
27	510	43	29	72	26	69	7	0	35	2 k__Bacteria
28	3	0	0	31	0	0	0	0	0	0 k__Bacteria
29	0	0	0	0	0	0	4	29	0	0 k__Bacteria
30	32	2	1	42	4	44	0	0	6	0 k__Bacteria
31	9	0	0	15	0	3	0	0	0	0 k__Bacteria
32	10	0	0	6	0	0	0	0	0	0 k__Bacteria
33	2	6	16	1	10	40	9	133	21	7 k__Bacteria
34	1	1	1	14	10	4	1	3	2	1 k__Bacteria
35	15	1	7	24	15	0	0	0	3	0 k__Bacteria
36	9	8	0	1	2	4	0	0	0	0 k__Bacteria
37	8	0	0	152	0	0	0	0	0	0 k__Bacteria
38	0	38	20	5	38	97	14	0	71	18 k__Bacteria
39	18	0	0	54	0	0	0	0	0	0 k__Bacteria
40	0	18	6	0	0	1	23	0	2	9 k__Bacteria
41	2	0	0	4	0	0	0	0	1	0 k__Bacteria
42	10	0	2	11	2	0	1	0	0	0 k__Bacteria
43	3	1	0	0	0	0	14	0	0	0 k__Bacteria
44	0	2	3	4	0	0	29	0	0	1 k__Bacteria
45	12	3	13	2	0	0	0	0	0	0 k__Bacteria
46	7	0	3	8	18	3	71	0	1	0 k__Bacteria
47	9	0	0	0	0	0	0	0	0	0 k__Bacteria
48	2	13	7	0	0	7	0	44	3	1 k__Bacteria
49	0	4	13	0	0	8	10	0	2	4 k__Bacteria
50	16	7	1	5	10	0	0	0	0	0 k__Bacteria
51	11	1	2	10	7	1	0	0	10	0 k__Bacteria
52	27	0	4	26	5	0	3	0	0	0 k__Bacteria
53	7	3	0	5	4	2	0	0	7	0 k__Bacteria

1											
2	7	11	3	2	0	0	0	0	0	0	k__Bacteria
3	0	3	4	1	0	1	61	0	9	0	k__Bacteria
4	7	0	0	8	6	0	0	0	0	0	k__Bacteria
5	0	0	25	0	0	0	0	0	0	0	k__Bacteria
6	9	0	20	0	0	0	0	0	0	0	k__Bacteria
7	10	0	2	0	0	0	0	0	0	0	k__Bacteria
8	10	0	0	6	0	0	0	0	0	1	k__Bacteria
9	32	2	7	6	11	22	5	0	10	0	k__Bacteria
10	9	1	2	2	0	5	0	0	0	1	k__Bacteria
11	3	0	2	0	0	1	0	0	0	0	k__Bacteria
12	7	2	1	6	6	29	0	0	2	0	k__Bacteria
13	3	0	2	7	0	1	0	0	1	0	k__Bacteria
14	0	0	3	2	0	0	0	0	0	0	k__Bacteria
15	6	0	2	0	0	0	0	0	0	0	k__Bacteria
16	8	1	3	3	0	0	0	0	1	0	k__Bacteria
17	0	24	6	0	0	4	18	1	8	21	k__Bacteria
18	22	15	9	19	1	47	7	1	23	11	k__Bacteria
19	0	3	2	2	0	0	0	0	6	19	k__Bacteria
20	0	4	7	2	0	1	4	4	14	10	k__Bacteria
21	1	2	4	6	0	0	12	0	12	19	k__Bacteria
22	29	185	154	76	6	34	137	67	491	255	k__Bacteria
23	0	14	12	0	7	9	2	0	0	2	k__Bacteria
24	5	15	10	6	10	8	2	0	0	1	k__Bacteria
25	34	230	128	312	164	518	51	0	79	218	k__Bacteria
26	3	45	41	0	3	21	22	0	6	242	k__Bacteria
27	11	4	5	29	23	14	2	0	0	6	k__Bacteria
28	39	38	5	10	3	20	30	1	20	111	k__Bacteria
29	0	5	2	0	0	5	0	0	4	2	k__Bacteria
30	9	320	174	1	47	215	13	0	159	36	k__Bacteria
31	5	2	8	0	3	13	0	0	17	23	k__Bacteria
32	0	1	7	9	1	6	2	0	1	1	k__Bacteria
33	5	0	0	1	0	0	0	0	1	0	k__Bacteria
34	1	0	2	2	0	0	0	0	0	0	k__Bacteria
35	29	0	36	0	0	0	0	0	0	0	k__Bacteria
36	2	2	1	2	1	0	2	0	0	10	k__Bacteria
37	3	10	7	3	6	20	15	0	25	7	k__Bacteria
38	14	12	27	46	10	8	1	0	10	0	k__Bacteria
39	4	3	0	1	38	9	0	0	0	0	k__Bacteria
40	0	1	0	6	0	0	0	0	0	0	k__Bacteria
41	20	2	8	5	0	5	13	0	3	8	k__Bacteria
42	6	2	0	2	6	2	2	0	26	0	k__Bacteria
43	0	0	12	2	0	1	0	0	5	0	k__Bacteria
44	0	0	4	0	0	0	0	0	0	0	k__Bacteria
45	2	7	0	10	1	5	0	0	0	0	k__Bacteria
46	0	0	0	3	0	0	0	0	7	0	k__Bacteria
47	0	0	2	2	4	0	0	0	0	0	k__Bacteria
48	8	53	113	69	65	26	5	0	76	2	k__Bacteria
49	0	8	4	2	5	0	0	0	2	1	k__Bacteria
50	0	2	3	3	4	0	2	0	7	0	k__Bacteria
51	10	203	133	107	199	45	12	0	175	5	k__Bacteria
52	0	0	0	1	2	0	0	0	3	0	k__Bacteria
53	0	0	15	1	1	0	0	0	4	0	k__Bacteria

1										
2	13	3	2	113	21	1	1	0	1	0 k__Bacteria
3	0	9	0	7	35	1	0	0	5	0 k__Bacteria
4	1	3	1	2	2	3	1	0	0	0 k__Bacteria
5	0	0	16	5	0	0	0	0	0	0 k__Bacteria
6	0	1	17	6	0	0	0	0	0	0 k__Bacteria
7	0	4	6	0	0	3	5	0	0	1 k__Bacteria
8	0	3	4	1	0	1	6	0	0	5 k__Bacteria
9	0	0	2	0	1	7	8	0	6	0 k__Bacteria
10										
11	12	1019	554	0	82	938	831	8	365	92 k__Bacteria
12	0	25	15	0	3	11	17	0	9	3 k__Bacteria
13	0	8	4	0	1	5	8	0	7	7 k__Bacteria
14	7	378	126	8	7	138	87	39	231	144 k__Bacteria
15	4	59	14	19	20	88	1	0	5	1 k__Bacteria
16	10	110	39	229	68	99	10	0	10	2 k__Bacteria
17	0	3	0	1	0	0	1	0	1	0 k__Bacteria
18	5	8	4	10	0	8	0	0	3	0 k__Bacteria
19	18	8	0	19	0	2	2	0	0	0 k__Bacteria
20										
21	36	346	44	23	16	287	7	0	9	5 k__Bacteria
22	6	26	17	3	14	40	5	0	43	7 k__Bacteria
23	9	2	2	218	109	0	3	0	0	1 k__Bacteria
24	4	2	2	22	8	0	0	0	0	3 k__Bacteria
25	0	1	2	0	0	0	0	0	2	11 k__Bacteria
26	5	2	13	1	1	3	3	14	31	55 k__Bacteria
27	0	0	0	1	0	0	0	0	0	0 k__Bacteria
28	0	1	1	1	2	0	0	0	0	0 k__Bacteria
29	0	0	1	0	2	0	0	0	0	0 k__Bacteria
30	1	0	3	6	0	0	0	0	1	0 k__Bacteria
31	2	0	0	10	7	0	0	1	2	0 k__Bacteria
32	12	0	9	0	0	22	1	0	4	1 k__Bacteria
33	37	0	0	36	23	0	1	5	0	0 k__Bacteria
34	3	0	0	5	0	0	0	0	0	0 k__Bacteria
35	1	0	0	2	0	4	1	0	7	2 k__Bacteria
36	0	0	5	8	0	0	0	0	0	0 k__Bacteria
37	0	0	2	1	0	0	0	0	0	2 k__Bacteria
38	1	8	20	6	13	13	2	0	35	0 k__Bacteria
39	0	28	29	8	3	26	0	0	28	0 k__Bacteria
40	0	0	1	0	3	1	2	0	2	1 k__Bacteria
41	7	15	22	32	24	31	11	0	167	12 k__Bacteria
42	7	0	0	2	124	0	1	0	0	0 k__Bacteria
43	0	0	0	0	0	0	0	0	0	0 k__Bacteria
44	0	0	0	94	0	0	0	0	0	0 k__Bacteria
45	3	0	0	124	37	6	1	1	0	0 k__Bacteria
46	134	0	36	19	25	259	7	0	26	0 k__Bacteria
47	1	0	0	10	0	1	0	0	1	0 k__Bacteria
48	14	0	0	97	29	5	0	0	0	0 k__Bacteria
49	3	0	0	1	1	0	0	0	0	0 k__Bacteria
50	4	0	1	2	0	6	0	0	0	0 k__Bacteria
51	1	169	73	0	5	148	62	0	1	0 k__Bacteria
52	1	0	2	0	0	0	0	0	0	0 k__Bacteria
53	364	0	15	12	0	0	0	0	0	0 k__Bacteria
54	0	0	0	0	3	0	0	0	0	0 k__Bacteria
55	13	0	1	12	1	10	0	0	1	0 k__Bacteria

1										
2	0	0	2	1	0	2	1	0	5	0 k__Bacteria
3	1	0	7	21	0	0	1	0	0	2 k__Bacteria
4	5	21	5	0	2	2	12	0	3	18 k__Bacteria
5	3	0	1	4	0	0	0	0	0	0 k__Bacteria
6	584	0	41	540	23	1	3	0	0	0 k__Bacteria
7	14	0	0	31	0	0	0	0	0	0 k__Bacteria
8	0	0	0	0	0	0	0	0	0	0 k__Bacteria
9	0	0	0	0	0	0	0	0	0	0 k__Bacteria
10	0	10	0	1	1	2	0	0	0	0 k__Bacteria
11	7	8	5	5	4	6	0	0	16	19 k__Bacteria
12	0	0	0	0	0	1	0	10	1	0 k__Bacteria
13	0	0	0	0	0	0	0	5	3	0 k__Bacteria
14	6	7	0	0	0	0	2	7	3	5 k__Bacteria
15	42	5	0	26	2	1	0	0	0	0 k__Bacteria
16	6	3	0	2	0	3	0	1	1	0 k__Bacteria
17	0	1	1	3	0	5	0	0	0	0 k__Bacteria
18	0	0	0	5	4	0	0	0	0	0 k__Bacteria
19	0	0	1	0	0	0	0	0	0	0 k__Bacteria
20	0	0	1	0	0	0	0	0	0	0 k__Bacteria
21	1	3	1	0	0	5	12	4	10	0 k__Bacteria
22	0	2	0	2	0	0	0	0	5	2 k__Bacteria
23	0	5	0	0	1	5	5	2	0	6 k__Bacteria
24	0	5	0	0	1	5	5	2	0	6 k__Bacteria
25	2	25	12	0	2	10	3	20	29	6 k__Bacteria
26	1	22	1	1	0	0	7	0	32	16 k__Bacteria
27	7	57	72	6	0	278	1	0	44	0 k__Bacteria
28	1	7	8	1	0	10	0	0	1	0 k__Bacteria
29	0	0	0	0	0	0	0	0	0	0 k__Bacteria
30	0	1	3	8	2	9	5	2	12	0 k__Bacteria
31	0	1	3	8	2	9	5	2	12	0 k__Bacteria
32	1	4	2	28	6	25	1	0	3	0 k__Bacteria
33	0	1	0	1	0	0	0	0	0	0 k__Bacteria
34	2	0	0	3	0	1	0	0	0	0 k__Bacteria
35	6	3	1	0	19	3	3	0	0	0 k__Bacteria
36	8	13	13	34	23	39	14	0	25	0 k__Bacteria
37	0	0	3	7	13	0	0	0	0	0 k__Bacteria
38	0	12	20	1	19	65	54	0	7	52 k__Bacteria
39	0	0	2	0	1	0	0	0	48	0 k__Bacteria
40	0	0	2	0	1	0	0	0	48	0 k__Bacteria
41	0	26	6	0	4	18	34	0	50	19 k__Bacteria
42	0	2	0	0	1	1	8	0	0	6 k__Bacteria
43	3	10	8	8	5	24	54	0	27	48 k__Bacteria
44	1	7	9	10	4	4	67	13	12	109 k__Bacteria
45	0	2	2	2	3	2	2	0	4	2 k__Bacteria
46	0	2	2	2	3	2	2	0	4	2 k__Bacteria
47	4	10	15	86	36	58	14	3	59	2 k__Bacteria
48	4	1	0	4	0	3	1	2	19	2 k__Bacteria
49	0	0	1	0	0	0	1	0	0	0 k__Bacteria
50	2	0	0	0	0	0	1	0	0	0 k__Bacteria
51										
52										
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57										
58										
59										
60										

1				
2	p__Tenericutes	c__Mollicutes	o__Anaeroplasmatales	f__Anaeroplasmataceae
3	p__Tenericutes	c__Mollicutes	o__Anaeroplasmatales	f__Anaeroplasmataceae
4	p__Fusobacteria	c__Fusobacteriia	o__Fusobacteriales	f__Fusobacteriaceae
5	p__Fusobacteria	c__Fusobacteriia	o__Fusobacteriales	f__Fusobacteriaceae
6	p__Fusobacteria	c__Fusobacteriia	o__Fusobacteriales	f__Fusobacteriaceae
7	p__Tenericutes	c__Mollicutes	o__Mycoplasmatales	f__Mycoplasmataceae
8	p__Proteobacteria	c__Alphaproteobacteria	o__	f__
9	p__Proteobacteria	c__Alphaproteobacteria	o__RF32	f__
10	p__Proteobacteria	c__Alphaproteobacteria	o__RF32	f__
11	p__Proteobacteria	c__Deltaproteobacteria	o__GMD14H09	f__
12	p__Proteobacteria	c__Deltaproteobacteria	o__GMD14H09	f__
13	p__Proteobacteria	c__Deltaproteobacteria	o__GMD14H09	f__
14	p__Proteobacteria	c__Deltaproteobacteria	o__GMD14H09	f__
15	p__Deferribacteres	c__Deferribacteres	o__Deferribacterales	f__Deferribacteraceae
16	p__Deferribacteres	c__Deferribacteres	o__Deferribacterales	f__Deferribacteraceae
17	p__Proteobacteria	c__Deltaproteobacteria	o__Desulfovibrionales	f__Desulfovibrionaceae
18	p__Proteobacteria	c__Deltaproteobacteria	o__Desulfovibrionales	f__Desulfovibrionaceae
19	p__Proteobacteria	c__Deltaproteobacteria	o__Desulfovibrionales	f__Desulfovibrionaceae
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21	p__Proteobacteria	c__Deltaproteobacteria	o__Desulfovibrionales	f__Desulfovibrionaceae
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24	p__Proteobacteria	c__Deltaproteobacteria	o__Desulfovibrionales	f__Desulfovibrionaceae
25	p__Proteobacteria	c__Deltaproteobacteria	o__Desulfovibrionales	f__Desulfovibrionaceae
26	NA	NA	NA	NA
27	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Bacteroidaceae
28	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Bacteroidaceae
29	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Bacteroidaceae
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41	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Bacteroidaceae
42	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Bacteroidaceae
43	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__[Paraprevotellaceae]
44	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__[Paraprevotellaceae]
45	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae
46	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae
47	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae
48	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae
49	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae
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56	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae
57	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae
58	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae
59	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae
60	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae

1				
2	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
3	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
4	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
5	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
6	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
7	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
8	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
9	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
10	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Christensenellaceae
11	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Christensenellaceae
12	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Christensenellaceae
13	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Christensenellaceae
14	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Christensenellaceae
15	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Christensenellaceae
16	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Christensenellaceae
17	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Christensenellaceae
18	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Christensenellaceae
19	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Christensenellaceae
20	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Christensenellaceae
21	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Christensenellaceae
22	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Christensenellaceae
23	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Christensenellaceae
24	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Christensenellaceae
25	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Christensenellaceae
26	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
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29	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
30	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
31	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
32	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
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35	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
36	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
37	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
38	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
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42	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
43	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
44	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
45	p__Firmicutes	c__Bacilli	o__Turicibacterales	f__Turicibacteraceae
46	p__Tenericutes	c__RF3	o__ML615J-28	f__
47	p__Firmicutes	c__Erysipelotrichi	o__Erysipelotrichales	f__Erysipelotrichaceae
48	p__Firmicutes	c__Erysipelotrichi	o__Erysipelotrichales	f__Erysipelotrichaceae
49	p__Firmicutes	c__Bacilli	o__Lactobacillales	f__Streptococcaceae
50	p__Firmicutes	c__Bacilli	o__Lactobacillales	f__Streptococcaceae
51	p__Firmicutes	c__Bacilli	o__Lactobacillales	f__Lactobacillaceae
52	p__Firmicutes	c__Bacilli	o__Lactobacillales	f__Lactobacillaceae
53	p__Firmicutes	c__Bacilli	o__Lactobacillales	f__Lactobacillaceae
54	p__Firmicutes	c__Bacilli	o__Lactobacillales	f__Lactobacillaceae
55	p__Firmicutes	c__Bacilli	o__Lactobacillales	f__Lactobacillaceae
56	p__Firmicutes	c__Bacilli	o__Lactobacillales	f__Lactobacillaceae
57	p__Firmicutes	c__Bacilli	o__Lactobacillales	f__Lactobacillaceae
58	p__Firmicutes	c__Bacilli	o__Lactobacillales	f__Lactobacillaceae
59	p__Firmicutes	c__Bacilli	o__Lactobacillales	f__Lactobacillaceae
60	p__Firmicutes	c__Bacilli	o__Lactobacillales	f__Lactobacillaceae

	Genus	Species
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5	g__	s__
6	g__	s__
7	g__	s__
8	g__	s__
9	g__	s__
10	g__	s__
11	g__	s__
12	g__	s__
13	g__	s__
14	g__	s__
15	g__	s__
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17	g__Dorea	s__
18	g__Dorea	s__
19	g__Dorea	s__
20	g__	s__
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22	g__	s__
23	g__	s__
24	g__	s__
25	g__	s__
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27	g__	s__
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56	g__	s__
57	g__	s__
58	g__	s__
59	g__	s__
60	g__	s__

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1		
2	g__	s__
3	g__	s__
4	g__Coprococcus	s__
5	g__Coprococcus	s__
6	g__Coprococcus	s__
7	g__Coprococcus	s__
8	g__Coprococcus	s__
9	g__Coprococcus	s__
10	NA	NA
11	g__Coprococcus	s__
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13	g__Coprococcus	s__
14	g__Coprococcus	s__
15	g__Coprococcus	s__
16	g__Coprococcus	s__
17	g__Coprococcus	s__
18	g__Coprococcus	s__
19	NA	NA
20	g__Coprococcus	s__
21	g__Coprococcus	s__
22	g__Coprococcus	s__
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24	g__Coprococcus	s__
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33	g__	s__
34	g__	s__
35	g__	s__
36	g__	s__
37	g__	s__
38	g__	s__
39	g__Lachnospira	s__
40	g__Lachnospira	s__
41	g__	s__
42	g__	s__
43	g__Lachnospira	s__
44	g__Lachnospira	s__
45	g__Lachnospira	s__
46	g__Lachnospira	s__
47	g__Lachnospira	s__
48	g__	s__
49	NA	NA
50	g__	s__
51	g__	s__
52	g__	s__
53	g__	s__
54	g__	s__
55	g__	s__
56	g__	s__
57	g__	s__
58	g__	s__
59	g__Epulopiscium	s__
60	NA	NA

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1		
2	g__Anaeroplasma	s__
3	g__Anaeroplasma	s__
4	g__Fusobacterium	s__
5	g__Fusobacterium	s__
6	g__Fusobacterium	s__
7	g__	s__
8	g__	s__
9	g__	s__
10	g__	s__
11	g__	s__
12	g__	s__
13	g__	s__
14	g__	s__
15	g__Mucispirillum	s__schaedleri
16	g__Mucispirillum	s__schaedleri
17	g__	s__
18	g__	s__
19	g__	s__
20	g__Desulfovibrio	s__D168
21	g__Desulfovibrio	s__
22	g__Desulfovibrio	s__
23	g__Desulfovibrio	s__
24	g__Desulfovibrio	s__
25	g__Desulfovibrio	s__
26	NA	NA
27	g__Bacteroides	s__
28	g__Bacteroides	s__
29	g__Bacteroides	s__barnesiae
30	g__Bacteroides	s__
31	g__Bacteroides	s__
32	g__Bacteroides	s__
33	g__Bacteroides	s__
34	g__Bacteroides	s__
35	g__Bacteroides	s__
36	g__Bacteroides	s__
37	g__Bacteroides	s__
38	g__Bacteroides	s__
39	g__Bacteroides	s__
40	g__Bacteroides	s__uniformis
41	g__Bacteroides	s__
42	g__Bacteroides	s__
43	g__YRC22	s__
44	g__YRC22	s__
45	g__Prevotella	s__
46	g__Prevotella	s__
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2	g__Prevotella	s__
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For Peer Review

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48	NA	NA
49	NA	NA
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44	g__Parabacteroides	s__
45	g__Paludibacter	s__
46	g__Paludibacter	s__
47	NA	NA
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10	g__Parabacteroides	s__
11	g__Odoribacter	s__
12	g__Butyricimonas	s__
13	g__Butyricimonas	s__
14	g__Butyricimonas	s__
15	g__	s__
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19	NA	NA
20	g__Bacteroides	s__
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6	g__Succinivibrio	s__
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11	g__Succinivibrio	s__
12	g__Succinivibrio	s__
13	g__Ruminobacter	s__
14	g__Aggregatibacter	NA
15	g__Actinobacillus	s__
16	g__Actinobacillus	s__
17	g__Actinobacillus	s__porcinus
18	g__Actinobacillus	s__porcinus
19	g__Actinobacillus	s__
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35	g__Sutterella	s__
36	g__Sutterella	s__
37	g__Fibrobacter	s__succinogenes
38	g__Fibrobacter	s__
39	g__Fibrobacter	s__
40	g__Collinsella	s__aerofaciens
41	g__	s__
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13	NA	NA
14	g__Campylobacter	s__
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26	g__Helicobacter	NA
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29	NA	NA
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44	g__Turicibacter	s__
45	g__	s__
46	g__	s__
47	g__p-75-a5	s__
48	g__p-75-a5	s__
49	g__Streptococcus	s__
50	g__Streptococcus	s__
51	g__Lactobacillus	s__
52	g__Lactobacillus	s__
53	g__Lactobacillus	s__
54	g__Lactobacillus	s__mucosae
55	g__Lactobacillus	s__
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4	g__Lactobacillus	s__
5	g__Dialister	s__
6	g__Clostridium	s__
7	g__Mitsuokella	s__multacida
8	g__Mitsuokella	NA
9		
10	g__Selenomonas	s__
11	g__Anaerovibrio	s__
12	g__Anaerovibrio	s__
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19	g__Anaerovibrio	s__
20	g__Dehalobacterium	s__
21	g__rc4-4	s__
22	g__Clostridium	NA
23	g__Clostridium	NA
24	g__Clostridium	NA
25	g__	s__
26	g__Clostridium	s__perfringens
27	g__	s__
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29	NA	NA
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32	NA	NA
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35	g__Anaerovorax	s__
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54	g__Anaerovorax	s__
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57	g__Mogibacterium	s__
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55	g__Ruminococcus	s__
56	g__Ruminococcus	s__
57	g__	s__
58	g__Ruminococcus	s__flavefaciens
59	g__Ruminococcus	s__
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20	g__	s__
21	g__Faecalibacterium	s__prausnitzii
22	g__Faecalibacterium	s__prausnitzii
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26	g__Faecalibacterium	s__prausnitzii
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38	g__	s__
39	g__	s__
40	g__Butyrivibrio	s__
41	g__	s__
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57	g__	s__
58	g__	s__
59	g__	s__
60	g__	s__

1		
2	g__	s__
3	g__	s__
4	NA	NA
5	g__	s__
6	g__	s__
7	g__Roseburia	s__faecis
8	g__Roseburia	s__faecis
9	g__Roseburia	s__faecis
10	g__Roseburia	NA
11	g__Roseburia	s__
12	g__Roseburia	s__
13	NA	NA
14	g__	s__
15	g__Roseburia	s__faecis
16	g__	s__
17	g__	s__
18	g__	s__
19	g__	s__
20	g__	s__
21	g__	s__
22	g__	s__
23	g__Roseburia	s__
24	NA	NA
25	g__	s__
26	g__	s__
27	g__	s__
28	g__	s__
29	g__	s__
30	g__	s__
31	NA	NA
32	g__	s__
33	g__Coprococcus	s__
34	g__Coprococcus	s__
35	g__Coprococcus	s__
36	g__Coprococcus	s__
37	g__Coprococcus	s__
38	g__Coprococcus	s__
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56	g__	s__
57	g__	s__
58	NA	NA
59	g__Coprococcus	s__
60	g__	s__

For Peer Review

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2	g__	s__
3	g__Coprococcus	s__
4	NA	NA
5	g__	s__
6	g__	s__
7	g__	s__
8	g__	s__
9	g__Anaerostipes	s__
10	g__	s__
11	g__	s__
12	g__[Ruminococcus]	s__
13	g__[Ruminococcus]	s__
14	g__Blautia	s__
15	g__Blautia	s__producta
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21	NA	NA
22	g__Blautia	s__
23	g__Blautia	s__
24	g__Blautia	s__
25	g__Dorea	s__formicigenerans
26	g__	s__
27	g__	s__
28	g__	s__
29	g__Dorea	s__
30	g__	s__
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Table S5: Differentially abundant OTUs when comparing the MUC4 genotypes and the age categori

OTU	+samples in group 0	+samples in group 1	counts in group 0	
	298592	7	7	246
	28056	12	25	469
	253380	5	16	55
	577228	19	51	3500
	70580	8	13	89
	354599	4	6	40
New.ReferenceOTU8856		6	16	521
	4307122	1	9	1
	16733	7	9	119
	848615	14	33	744
New.ReferenceOTU584		7	12	167
New.ReferenceOTU10898		13	36	519
New.ReferenceOTU7634		10	18	124
New.ReferenceOTU4309		16	43	848
	844589	2	14	3
	539601	3	27	3
	799443	14	31	204
	172163	18	42	738
	99414	1	9	2
	344804	13	46	97
	366986	6	16	73
New.ReferenceOTU11302		7	11	110
	837859	5	5	16
	193755	4	12	7
	109413	7	8	33
New.ReferenceOTU7990		7	13	32
	10945	12	27	396
New.ReferenceOTU7656		0	18	0
	513552	0	13	0
	533298	11	34	168
	216111	6	15	22
	524575	19	46	541
	369182	5	28	7
	291158	7	30	29
	570341	6	11	66
	348009	11	29	199
New.ReferenceOTU7413		12	41	17
	74192	10	23	78
New.ReferenceOTU4443		3	18	5
New.ReferenceOTU1186		14	36	195
New.ReferenceOTU3788		11	26	43
	1951826	2	25	5
	527408	12	25	162
	471412	7	9	25
New.ReferenceOTU6997		1	15	1
New.CleanUp.ReferenceOTU9889		5	27	13
	605577	8	7	24
	147100	11	22	94
	535399	18	45	167

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2		1106614	11	17	43
3		198151	6	14	7
4		546876	2	15	3
5		354461	2	11	2
6		530928	3	10	5
7		300123	7	23	41
8		558839	5	25	5
9		938672	10	16	31
10					
11	New.ReferenceOTU5165		13	24	132
12	New.ReferenceOTU7610		17	31	232
13	New.ReferenceOTU2877		10	29	14
14		470382	5	15	8
15		316925	14	37	152
16		297677	3	9	14
17		328905	16	33	148
18		360329	4	29	5
19					
20	New.ReferenceOTU3403		13	25	78
21	New.ReferenceOTU7944		15	21	60
22		842596	7	20	8
23					
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es at T0.

counts in group 1	oddsRatio	lower	upper	fisherP	fisherAdjP
22	3.667185817	0.907047002	15.12319925	0.042853491	0.669173738
147	1.835485064	0.559474992	6.449361553	0.294508057	0.869455323
43	0.805999134	0.193499898	2.914704823	0.777848569	1
25014	Inf	0.009384315	Inf	1	1
52	2.156012192	0.611791375	7.491555699	0.239412598	0.869455323
15	2.021612732	0.368551247	9.930210068	0.440545866	0.978455261
252	1.037882262	0.272558143	3.613277428	1	1
44	0.269252275	0.005746318	2.203369597	0.269648919	0.869455323
42	2.741471029	0.710677472	10.43818038	0.110014489	0.789095642
392	1.60168743	0.451254934	6.595424554	0.572925303	1
53	1.9249492	0.520418349	6.860059432	0.363539728	0.969977767
759	0.963500424	0.27675705	3.668941929	1	1
79	2.07599788	0.630100085	6.987169935	0.183605348	0.819517713
700	1.114593443	0.236452102	7.20206736	1	1
44	0.323708293	0.032247736	1.665137069	0.204497256	0.848381059
104	0.177685828	0.029672263	0.727848733	0.007119057	0.408116207
164	1.880380239	0.534124123	7.705381119	0.404886829	0.969977767
643	4.220225581	0.527104192	195.9845033	0.267000358	0.869455323
24	0.269252275	0.005746318	2.203369597	0.269648919	0.869455323
1019	0.288673344	0.06444702	1.275817781	0.071260789	0.716844339
44	1.037882262	0.272558143	3.613277428	1	1
44	2.148333633	0.57419748	7.791002742	0.221782085	0.869455323
9	3.289321581	0.655837914	16.65300084	0.118259117	0.800220024
44	0.890324222	0.180810492	3.577697468	1	1
17	3.147100549	0.79912353	12.39859751	0.096492176	0.789095642
38	1.735488507	0.473708181	6.093935939	0.377585258	0.969977767
296	1.577071019	0.480153171	5.537410061	0.433178248	0.969977767
43	0	0	0.473969375	0.001734027	0.408116207
25	0	0	0.773032145	0.014776794	0.458548448
190	0.731295878	0.219995192	2.500200415	0.587835244	1
72	1.136350365	0.296749332	3.989892848	1	1
603	Inf	0.437164505	Inf	0.182447051	0.819517713
105	0.311230771	0.076206145	1.08475072	0.059370882	0.716844339
286	0.433017149	0.122693543	1.423365379	0.179537897	0.819517713
34	1.706369602	0.430323144	6.328548378	0.365205016	0.969977767
98	1.089171783	0.333808708	3.680855067	1	1
185	0.465477049	0.128353183	1.74156111	0.221782085	0.869455323
64	1.394259111	0.428132039	4.610521886	0.596920094	1
49	0.358871692	0.059234885	1.503521302	0.151721244	0.819517713
238	1.240696123	0.343087915	5.16796138	0.777848569	1
215	1.368845546	0.421170116	4.621441906	0.601026171	1
88	0.13027903	0.013320067	0.638165721	0.005030361	0.408116207
96	1.835485064	0.559474992	6.449361553	0.294508057	0.869455323
19	2.741471029	0.710677472	10.43818038	0.110014489	0.789095642
76	0.139826549	0.003091326	1.05253654	0.052111267	0.716844339
142	0.335800007	0.082275791	1.170302087	0.064759638	0.716844339
13	4.551618209	1.168050972	18.55938551	0.018295435	0.488680685
60	1.858239479	0.570764901	6.307853131	0.289410857	0.869455323
182	2.767535841	0.317071704	133.0187691	0.67278261	1

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2	50	2.786844664	0.843641434	9.654276471	0.098229421	0.789095642
3	39	1.248649986	0.323931658	4.43016582	0.768781163	1
4	38	0.294488369	0.029474999	1.500933178	0.1300237	0.819517713
5	29	0.442969557	0.043271668	2.370118728	0.490752299	1
6	21	0.790084731	0.123956655	3.631249087	1	1
7	71	0.738667681	0.210139414	2.43398581	0.786663228	1
8	83	0.390775831	0.095731431	1.363736876	0.113755948	0.789095642
9	29	2.46566874	0.741428102	8.404063959	0.103774971	0.789095642
10	69	2.49497449	0.743705346	9.315959922	0.114407018	0.789095642
11	151	5.639145231	1.142308943	55.40847211	0.021675085	0.536590517
12	135	0.882803484	0.270266604	2.910851177	1	1
13	51	0.882536264	0.210727961	3.218992607	1	1
14	110	1.133097914	0.310656197	4.745454732	1	1
15	13	0.897188124	0.138849021	4.229186334	1	1
16	106	3.027707325	0.726181482	18.2900875	0.146838039	0.819517713
17	61	0.216126832	0.045876512	0.801445256	0.014640265	0.458548448
18	56	2.312337409	0.689325656	8.623944968	0.180220855	0.819517713
19	46	5.401646495	1.453136499	25.52674241	0.006554445	0.408116207
20	38	0.934215904	0.2643893	3.106541422	1	1
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(Intercept)	MUC4_T0S	AGE_T038d	normFactor_T0	pvalues	adjPvalues	Kingdom
3.110540468	-2.257458143	-0.577680279	-1.664645284	3.37E-06	0.000570715	k__Bacteria
4.962662489	-2.227800088	-1.668668816	0.75048913	6.60E-08	6.70E-05	k__Bacteria
3.001844672	-2.211801625	0.830779378	0.353907201	2.49E-07	0.000126396	k__Bacteria
5.821370461	2.1131708	0.16385528	2.840914678	8.77E-06	0.001271378	k__Bacteria
3.377517643	-2.069176375	-0.503243974	1.037080817	5.87E-07	0.000198648	k__Bacteria
1.868628626	-1.971209856	1.745281835	-0.472023893	1.46E-06	0.000369663	k__Bacteria
3.554430714	-1.962582489	-0.40932557	1.989586699	0.001399899	0.028417941	k__Bacteria
0.427332678	1.928432766	-1.756448022	0.723268336	1.36E-05	0.001715693	k__Bacteria
2.554592378	-1.748507134	0.227013502	-0.385484128	0.000192395	0.007510816	k__Bacteria
4.279894473	-1.734460229	-0.037502135	-0.787955964	0.000856817	0.021741739	k__Bacteria
3.386019615	-1.67539534	-1.071857931	-0.790246905	0.000264904	0.009356495	k__Bacteria
4.805029553	-1.667183753	-1.00734197	-0.111687485	0.000553983	0.016538032	k__Bacteria
3.136334511	-1.595319194	-0.397827568	0.832262338	7.19E-05	0.005343004	k__Bacteria
4.341768572	-1.587291653	0.663722239	-0.97898665	0.000772885	0.020880509	k__Bacteria
0.441313516	1.526849015	-0.266591449	0.847179876	2.27E-06	0.000460699	k__Bacteria
0.344215264	1.438503884	-0.043655841	0.637331994	1.52E-05	0.001715693	k__Bacteria
3.382328238	-1.409985634	0.030179851	0.152763438	0.000112276	0.005343004	k__Bacteria
4.177982322	-1.408461969	0.346930253	0.641263565	0.001767641	0.032038498	k__Bacteria
0.551526294	1.407286616	-0.636432221	1.776715518	0.000170006	0.006902248	k__Bacteria
2.518582202	1.404269943	-0.461442737	1.012555539	0.001610663	0.031021134	k__Bacteria
2.442137731	-1.374152366	0.019922932	0.950928501	0.000552945	0.016538032	k__Bacteria
2.807783946	-1.364381917	-0.885111557	-0.081861727	0.001502393	0.029900558	k__Bacteria
1.883986952	-1.349111032	-0.132122862	0.491240939	0.000118182	0.005343004	k__Bacteria
0.925397756	1.31858404	-0.732336788	1.287482092	3.55E-05	0.003006316	k__Bacteria
2.168964469	-1.299985238	-0.398762051	0.591887026	9.53E-05	0.005343004	k__Bacteria
2.186345009	-1.297872183	0.665153967	1.042688555	9.45E-05	0.005343004	k__Bacteria
4.380800599	-1.28384118	-1.548077971	-1.029257183	0.002986029	0.048108242	k__Bacteria
-0.031577695	1.281484511	-0.108047571	1.045585369	8.15E-05	0.005343004	k__Bacteria
0.082559976	1.277324956	-0.116458685	0.446880883	2.83E-05	0.002614312	k__Bacteria
2.946102573	-1.266347043	0.798258562	-0.433259415	0.000802305	0.020880509	k__Bacteria
0.882980459	1.251625826	0.043879302	0.455292576	0.000157376	0.006655693	k__Bacteria
3.988921927	-1.246740684	0.188416996	0.22722662	0.002137431	0.038061263	k__Bacteria
0.611858529	1.214775099	-0.263781193	1.287982867	0.000104986	0.005343004	k__Bacteria
1.266825136	1.19594107	0.280494186	0.980554021	0.003235734	0.048660487	k__Bacteria
1.859634088	-1.153778933	0.253837089	0.781935451	0.002569382	0.043360983	k__Bacteria
2.773146513	-1.1476203	0.052435491	-1.599428045	0.003260013	0.048660487	k__Bacteria
0.983874777	1.137766293	0.025208906	0.476506676	2.36E-05	0.002397211	k__Bacteria
2.59584868	-1.134146921	-0.364647157	0.803611238	0.000471462	0.014954185	k__Bacteria
0.586025128	1.133960384	-0.249602546	0.118734608	0.000249179	0.009356495	k__Bacteria
3.016329178	-1.102774353	0.821822193	-0.349887153	0.000793457	0.020880509	k__Bacteria
1.655423002	1.085122265	-0.811596069	2.425257299	0.001179351	0.025983178	k__Bacteria
0.232238638	1.081905134	0.669428917	0.306833492	0.001195333	0.025983178	k__Bacteria
2.90785687	-1.080865236	-0.63479799	-0.533526979	0.003234589	0.048660487	k__Bacteria
2.224769838	-1.072740192	-0.61239712	1.393083537	0.000267328	0.009356495	k__Bacteria
-0.114381056	1.065550686	1.62882895	-1.021365557	0.001083012	0.024983109	k__Bacteria
1.138773167	1.064402655	-0.560311592	0.546763918	0.002918442	0.047777712	k__Bacteria
1.863517611	-1.063574844	-0.226139047	0.142234455	0.000389673	0.013123479	k__Bacteria
2.877051246	-1.045269166	-0.897204522	-0.597195785	0.000121073	0.005343004	k__Bacteria
2.854476784	-1.039224334	0.398391431	-0.660184442	0.000115331	0.005343004	k__Bacteria

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2	1.891760323	-1.036057082	0.569388124	0.235541231	0.00088379	0.021879192	k__Bacteria
3	0.835498417	1.030532316	-0.538739568	1.337742376	7.77E-05	0.005343004	k__Bacteria
4	0.438050398	0.983351167	-0.265266493	1.126754949	0.000400816	0.013123479	k__Bacteria
5	0.474580279	0.97771165	-0.183648718	1.162028996	0.000742886	0.020880509	k__Bacteria
6	0.901107918	0.977364637	-0.736179304	1.940039849	0.001692447	0.031233349	k__Bacteria
7	1.693828611	-0.975731044	0.981594613	0.7026436	0.001203162	0.025983178	k__Bacteria
8	0.527723134	0.972043825	0.186730018	0.056940752	0.001658292	0.031169752	k__Bacteria
9	1.434038089	-0.960494029	0.635418174	0.446204718	9.76E-05	0.005343004	k__Bacteria
10	2.996051384	-0.947936471	-1.037000752	0.190067497	0.001619823	0.031021134	k__Bacteria
11	3.098744062	-0.94096349	-0.140846263	-1.580456897	0.002188311	0.038295449	k__Bacteria
12	1.074193518	0.933269141	-0.06690456	-0.310862137	0.001082401	0.024983109	k__Bacteria
13	0.696509199	0.914267513	0.003396165	1.307691769	0.000681401	0.019760639	k__Bacteria
14	2.836545161	-0.9096074	-0.379117355	-0.968143529	0.000953373	0.023039855	k__Bacteria
15	1.162872543	-0.861105772	0.769600921	1.167528481	0.001298263	0.027452858	k__Bacteria
16	2.64140917	-0.841748854	-0.215334827	-1.294244954	0.002263063	0.038932358	k__Bacteria
17	0.652374912	0.840303881	-0.324445594	0.294867564	0.001374439	0.028417941	k__Bacteria
18	2.341689779	-0.783840212	-0.388976918	-0.363772738	0.003159941	0.048660487	k__Bacteria
19	2.118300318	-0.729817059	-0.332327427	0.21316153	0.003084815	0.048660487	k__Bacteria
20	0.930130331	0.619943722	-0.267982539	-0.516056395	0.002605931	0.043360983	k__Bacteria
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Phylum	Class	Order	Family
p__Fusobacteria	c__Fusobacteriia	o__Fusobacteriales	f__Fusobacteriaceae
p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Bacteroidaceae
p__Firmicutes	c__Clostridia	o__Clostridiales	f__Lachnospiraceae
p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__S24-7
p__Proteobacteria	c__Gammaproteobacteria	o__Pasteurellales	f__Pasteurellaceae
p__Spirochaetes	c__Spirochaetes	o__Spirochaetales	f__Spirochaetaceae
p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__S24-7
p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__[Odoribacteraceae]
p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__
p__Firmicutes	c__Clostridia	o__Clostridiales	f__
p__Firmicutes	c__Clostridia	o__Clostridiales	f__Lachnospiraceae
p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Bacteroidaceae
p__Firmicutes	c__Clostridia	o__Clostridiales	f__[Mogibacteriaceae]
p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__[Paraprevotellaceae]
p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__S24-7
p__Firmicutes	c__Clostridia	o__Clostridiales	f__Lachnospiraceae
p__Firmicutes	c__Clostridia	o__Clostridiales	f__
p__Firmicutes	c__Clostridia	o__Clostridiales	f__
p__Firmicutes	c__Clostridia	o__Clostridiales	f__Christensenellaceae
p__Firmicutes	c__Clostridia	o__Clostridiales	f__Lachnospiraceae
p__Firmicutes	c__Clostridia	o__Clostridiales	NA
p__Firmicutes	c__Clostridia	o__Clostridiales	f__
p__Firmicutes	c__Clostridia	o__Clostridiales	f__Ruminococcaceae
p__Firmicutes	c__Clostridia	o__Clostridiales	f__Ruminococcaceae
p__Proteobacteria	c__Gammaproteobacteria	o__Pasteurellales	f__Pasteurellaceae
p__Firmicutes	c__Clostridia	o__Clostridiales	f__Lachnospiraceae
p__Proteobacteria	c__Epsilonproteobacteria	o__Campylobacterales	f__Helicobacteraceae
p__Firmicutes	c__Clostridia	o__Clostridiales	f__Ruminococcaceae
p__Firmicutes	c__Clostridia	o__Clostridiales	f__Veillonellaceae
p__Proteobacteria	c__Gammaproteobacteria	o__Aeromonadales	f__Succinivibrionaceae
p__Firmicutes	c__Clostridia	o__Clostridiales	f__Lachnospiraceae
p__Firmicutes	c__Clostridia	o__Clostridiales	f__Lachnospiraceae
p__Firmicutes	c__Clostridia	o__Clostridiales	f__Lachnospiraceae
p__Spirochaetes	c__Spirochaetes	o__Spirochaetales	f__Spirochaetaceae
p__Firmicutes	c__Clostridia	o__Clostridiales	f__Ruminococcaceae
p__Firmicutes	c__Clostridia	o__Clostridiales	f__Ruminococcaceae
p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__S24-7
p__Proteobacteria	c__Gammaproteobacteria	o__Pasteurellales	f__Pasteurellaceae
p__Firmicutes	c__Clostridia	o__Clostridiales	f__Ruminococcaceae
p__Firmicutes	c__Clostridia	o__Clostridiales	f__
p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__S24-7
p__Proteobacteria	c__Gammaproteobacteria	o__Enterobacteriales	f__Enterobacteriaceae
p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__[Paraprevotellaceae]
p__Proteobacteria	c__Gammaproteobacteria	o__Pasteurellales	f__Pasteurellaceae
p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae
p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae
p__Firmicutes	c__Erysipelotrichi	o__Erysipelotrichales	f__Erysipelotrichaceae
p__Firmicutes	c__Clostridia	o__Clostridiales	f__Ruminococcaceae
p__Firmicutes	c__Clostridia	o__Clostridiales	f__Ruminococcaceae

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2	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Lachnospiraceae
3	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Ruminococcaceae
4	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Lachnospiraceae
5	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Lachnospiraceae
6	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Ruminococcaceae
7	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Lachnospiraceae
8	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae
9	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae
10	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Bacteroidaceae
11	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__
12	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae
13	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Lachnospiraceae
14	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Ruminococcaceae
15	p__Firmicutes	c__Clostridia	o__Clostridiales	f__
16	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Ruminococcaceae
17	p__Firmicutes	c__Clostridia	o__Clostridiales	f__Lachnospiraceae
18	p__Firmicutes	c__Clostridia	o__Clostridiales	f__[Paraprevotellaceae]
19	p__Firmicutes	c__Clostridia	o__Clostridiales	f__[Mogibacteriaceae]
20	p__Bacteroidetes	c__Bacteroidia	o__Bacteroidales	f__Lachnospiraceae
21	p__Firmicutes	c__Clostridia	o__Clostridiales	
22	p__Firmicutes	c__Clostridia	o__Clostridiales	
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	Genus	Species
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5	g__Fusobacterium	s__
6	g__Bacteroides	s__
7	g__Dorea	s__
8	g__	s__
9	g__	s__
10	g__Actinobacillus	s__porcinus
11	g__Treponema	s__
12	g__	s__
13	g__Odoribacter	s__
14	g__	s__
15	g__	s__
16	g__	s__
17	g__	s__
18	g__Bacteroides	s__
19	g__Anaerovorax	s__
20	g__[Prevotella]	s__
21	g__	s__
22	g__	s__
23	g__	s__
24	g__	s__
25	g__	s__
26	g__	s__
27	g__Coprococcus	s__
28	NA	NA
29	g__	s__
30	g__	s__
31	g__	s__
32	g__Ruminococcus	s__
33	g__Actinobacillus	s__porcinus
34	g__	s__
35	NA	NA
36	g__	s__
37	g__Anaerovibrio	s__
38	g__Succinivibrio	s__
39	g__	s__
40	g__	s__
41	g__	s__
42	g__	s__
43	g__Treponema	s__
44	g__	s__
45	g__	s__
46	g__Oscillospira	s__
47	g__	s__
48	g__Actinobacillus	s__
49	g__	s__
50	g__	s__
51	g__	s__
52	g__	s__
53	g__	s__
54	g__[Prevotella]	s__
55	g__Actinobacillus	s__
56	g__Prevotella	s__
57	g__Prevotella	s__copri
58	g__p-75-a5	s__
59	g__	s__
60	g__Oscillospira	s__

For Peer Review

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2 g__ s__
3 g__ s__
4 g__Blautia s__
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6 g__Ruminococcus s__
7 g__Coprococcus s__
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9 g__Prevotella s__
10 g__Bacteroides s__
11 g__ s__
12 g__Prevotella s__
13 g__Coprococcus s__
14 g__Oscillospira s__
15 g__ s__
16 g__Oscillospira s__
17 g__ s__
18 g__ s__
19 g__[Prevotella] s__
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21 g__Coprococcus s__
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For Peer Review

Table S6: Differentially abundant OTUs when comparing the non-diarrhoeic and diarrhoeic animals

OTU	+samples in group 0	+samples in group 1	counts in group 0
New.ReferenceOTU1852	12	0	70
514045	23	2	2559
New.ReferenceOTU6997	15	1	76
New.CleanUp.ReferenceOTU27900	11	1	107
364736	9	1	36
43052	13	1	42
New.ReferenceOTU394	21	3	262
577228	53	17	25639
198552	14	4	132
804526	38	7	676
523934	31	1	166
333195	9	4	77
547854	46	14	2533
791522	43	11	1143
330285	32	5	326
295100	10	0	21
515299	14	2	54
570507	52	12	1215
366391	28	9	396
338757	33	1	127
New.ReferenceOTU2144	20	4	87
355175	10	1	23
New.ReferenceOTU10023	45	11	718
216111	18	3	75
369429	17	1	63
New.ReferenceOTU2204	10	5	83
292575	36	8	430
300355	13	2	30
New.CleanUp.ReferenceOTU126048	40	9	1083
New.ReferenceOTU2058	17	2	50
558458	15	2	35
New.ReferenceOTU7656	18	0	43
New.ReferenceOTU10211	22	4	64
4330423	12	1	139
720093	36	9	400
354957	29	8	155
370183	31	3	164
198151	18	2	43
292387	10	1	42
354461	12	1	30
198814	46	14	865
362947	40	4	147
297065	31	3	156
353214	12	0	28
362991	25	4	125
4441081	19	2	72
345834	33	11	309
844589	14	2	41
New.ReferenceOTU8097	25	2	85

1					
2		196392	23	5	129
3		532232	10	0	14
4		621472	35	6	152
5		302809	38	7	235
6		363400	28	5	129
7		564941	39	9	202
8		290399	23	1	51
9					
10	New.ReferenceOTU5014		41	8	257
11		361398	24	3	61
12	New.ReferenceOTU6786		22	3	72
13		559659	36	8	188
14	New.ReferenceOTU691		41	6	161
15		333325	12	4	65
16		99414	8	2	23
17		4406814	14	2	49
18		335846	13	3	38
19		470382	16	4	52
20		808794	33	5	86
21		772384	33	7	123
22		33133	19	1	34
23		520720	22	7	42
24		530928	12	1	24
25					
26	New.ReferenceOTU1512		24	13	56
27		347189	30	11	59
28					
29	New.ReferenceOTU3003		19	8	34
30	New.ReferenceOTU7944		26	10	65
31	New.ReferenceOTU7990		13	7	40
32		36792	20	8	51
33		328825	32	12	100
34	New.ReferenceOTU4568		34	14	122
35		2892743	23	14	46
36		48088	22	7	52
37		109413	8	7	22
38		328905	35	14	96
39		22371	27	12	56
40	New.ReferenceOTU11332		31	12	103
41		339504	40	12	159
42		471412	10	6	26
43	New.ReferenceOTU3580		29	10	76
44	New.ReferenceOTU10047		23	8	40
45	New.ReferenceOTU3403		25	13	55
46	New.ReferenceOTU3703		28	12	41
47		535601	50	17	742
48		837859	6	4	13
49		4435235	50	15	427
50		584463	19	10	36
51		1105615	13	4	22
52	New.ReferenceOTU7292		15	6	34
53	New.ReferenceOTU4410		39	12	137
54		514523	15	7	28
55		528752	52	17	1127
56		4358599	12	5	25
57					
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2	New.ReferenceOTU5165	26	11	83	
3		1105328	19	10	55
4	New.ReferenceOTU2631	44	16	725	
5	New.CleanUp.ReferenceOTU58992	8	5	27	
6		294053	24	10	127
7		233549	12	5	36
8	New.ReferenceOTU105	15	8	101	
9		70580	12	9	75
10		576712	38	11	442
11	New.ReferenceOTU3520	27	11	91	
12		524575	50	15	554
13		355630	52	16	583
14	New.ReferenceOTU4455	47	13	575	
15	New.ReferenceOTU7671	47	14	815	
16		339791	29	10	148
17		332831	37	15	596
18		262936	18	5	60
19		172163	46	14	773
20		147100	25	8	68
21		310886	45	10	404
22	New.ReferenceOTU7634	19	9	101	
23	New.ReferenceOTU4529	47	15	1175	
24	New.ReferenceOTU1065	18	7	129	
25	New.ReferenceOTU2	30	9	203	
26	New.CleanUp.ReferenceOTU111198	19	9	124	
27		513985	26	13	73
28	New.ReferenceOTU7043	47	15	423	
29		510205	47	16	563
30		367813	9	5	24
31	New.ReferenceOTU5623	29	10	251	
32		584083	34	14	617
33	New.ReferenceOTU3709	50	16	1691	
34		1033345	48	16	1210
35	New.ReferenceOTU11142	38	15	413	
36		1111294	52	16	1980
37		298592	7	7	25
38	New.ReferenceOTU5511	15	6	43	
39		4323524	18	10	93
40	New.ReferenceOTU741	24	5	306	
41	New.ReferenceOTU10898	37	12	767	
42	New.ReferenceOTU584	13	6	74	
43	New.ReferenceOTU1441	49	17	4892	
44	New.ReferenceOTU11302	12	6	53	
45	New.ReferenceOTU7312	10	7	28	
46		28056	24	13	209
47		34757	14	8	75
48		350447	40	10	1171
49		589277	17	5	422
50		548699	33	11	1194
51		16733	9	7	31
52		253380	17	4	44
53	New.ReferenceOTU357	24	12	209	

at T0.

counts in group 1	oddsRatio	lower	upper	fisherP	fisherAdjP	(Intercept)
0	Inf	0.976367042	Inf	0.057211824	0.354085373	2.51029763
6	5.450995432	1.09468309	53.80238657	0.022191341	0.278549319	3.124739218
1	6.041192202	0.79368231	274.6442549	0.094261298	0.453463474	2.210155278
2	4.032648468	0.507067299	186.8610866	0.269915309	0.639989145	2.136200243
1	3.159544809	0.382114958	148.7955262	0.432726572	0.776002597	2.046193983
1	4.989006339	0.64375005	228.6222507	0.162498731	0.550664647	1.937318486
19	2.929106162	0.695656865	17.78769789	0.145170727	0.550664647	2.793947076
2875	0	0	123.6449501	1	1	7.908479322
5	1.135498831	0.283811769	5.578255256	1	1	2.330049201
30	3.329040845	0.951876847	12.37095123	0.043199923	0.350783377	3.108558555
2	20.80425923	2.841605648	928.2312364	0.00016422	0.03333657	1.965893063
8	0.654242028	0.149690912	3.38485439	0.495889691	0.862343679	2.550085939
222	1.228426331	0.185135381	6.074643793	0.717545031	0.947596186	4.351404104
50	2.107191063	0.520731831	8.062369623	0.327396775	0.71983959	3.612465814
11	3.428964093	0.956310485	14.26292089	0.050194423	0.351120019	2.560578258
0	Inf	0.757334812	Inf	0.103809411	0.464169834	1.49312177
5	2.594620795	0.497320751	26.23648204	0.324628613	0.71983959	1.990432484
62	10.33669916	1.482050637	120.9615442	0.007175612	0.18244804	3.772324865
24	0.957837865	0.275482606	3.279244628	1	1	2.871734308
2	24.1693462	3.293820472	1079.172146	5.18981E-05	0.026338296	1.786829667
6	1.895350484	0.493528205	9.081192758	0.386241948	0.751178501	1.931452941
1	3.586389324	0.443192964	167.3976858	0.276617409	0.639989145	1.523969188
138	2.682936644	0.64379138	10.75903658	0.169310528	0.550664647	3.295786721
19	2.30817997	0.54119515	14.12168019	0.360769392	0.744343557	1.985717463
2	7.204414896	0.958908878	325.6138586	0.052524906	0.351120019	1.65401318
21	0.550552834	0.136518091	2.454409364	0.331197132	0.71983959	2.395876439
20	2.222997128	0.640540431	7.905871584	0.163809619	0.550664647	2.612913948
2	2.353082006	0.446266135	23.92490102	0.495957462	0.862343679	1.483650838
66	2.503179671	0.693965852	9.040104332	0.134403268	0.550664647	3.531356897
7	3.395719846	0.666252179	33.92705805	0.1300237	0.550664647	1.6103874
2	2.848229078	0.550925459	28.67304525	0.21302494	0.635942102	1.539045287
0	Inf	1.771595344	Inf	0.003846316	0.180433064	1.398658235
5	2.210655195	0.57954796	10.55036218	0.255481278	0.639989145	1.6791575
2	4.499689141	0.573861906	207.2469027	0.167257394	0.550664647	1.659164862
17	1.762861066	0.499699371	6.174749514	0.389139079	0.751178501	2.428274589
11	1.30008836	0.380015347	4.5279173	0.781937381	0.947596186	2.047514554
8	6.132968461	1.471804214	37.14268306	0.005250752	0.180433064	2.007011829
3	3.691756733	0.728391225	36.74736888	0.123482227	0.53773441	1.452965771
1	3.586389324	0.443192964	167.3976858	0.276617409	0.639989145	1.636567715
1	4.499689141	0.573861906	207.2469027	0.167257394	0.550664647	1.401254634
70	1.228426331	0.185135381	6.074643793	0.717545031	0.947596186	3.495228589
7	8.943790147	2.287623479	44.15880756	0.000356436	0.049689645	1.903224858
8	6.132968461	1.471804214	37.14268306	0.005250752	0.180433064	1.954502709
0	Inf	0.976367042	Inf	0.057211824	0.354085373	1.212679776
11	2.763375739	0.729013772	13.14810081	0.156300062	0.550664647	1.995744708
2	4.004317657	0.793854181	39.79664642	0.075809019	0.43719406	1.403063704
22	0.858988347	0.224994224	3.009558127	1	1	2.361357058
6	2.594620795	0.497320751	26.23648204	0.324628613	0.71983959	1.624354786
2	6.319868647	1.273716442	62.36639095	0.011056286	0.198864823	1.428028224

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2	7	1.766673175	0.491224989	7.328993529	0.402401375	0.751178501	1.789395047
3	0	Inf	0.757334812	Inf	0.103809411	0.464169834	1.122950938
4	9	3.316208028	0.947684195	12.78954379	0.04809479	0.351120019	1.954632274
5	25	3.329040845	0.951876847	12.37095123	0.043199923	0.350783377	2.373336729
6	6	2.550793114	0.713496887	10.56543412	0.162987768	0.550664647	1.712252518
7	17	2.281717648	0.63701374	8.161957538	0.151260193	0.550664647	2.199526077
8	3	11.5695237	1.572993071	517.7136642	0.006781969	0.18244804	1.301030193
9	26	3.475809203	0.971473337	12.87781209	0.035840784	0.327733294	2.432663499
10	3	3.670770141	0.878530723	22.20591992	0.083614938	0.453463474	1.387219404
11	5	3.16116528	0.7530932	19.1662081	0.143812714	0.550664647	1.497008021
12	18	2.222997128	0.640540431	7.905871584	0.163809619	0.550664647	2.159414601
13	15	5.613791197	1.551225575	22.53382931	0.003298912	0.167419774	2.014243433
14	4	0.929553899	0.226467491	4.636711772	1	1	1.679841981
15	3	1.299676787	0.222806478	13.88886456	1	1	1.384821357
16	3	2.594620795	0.497320751	26.23648204	0.324628613	0.71983959	1.301133175
17	5	1.471995955	0.33105121	9.220010313	0.745013775	0.947596186	1.389501346
18	7	1.36260585	0.346849043	6.619454229	0.762376209	0.947596186	1.533710526
19	7	3.69913919	1.029888115	15.43639077	0.027976067	0.278549319	1.5374606
20	10	2.218672742	0.646134066	8.049692777	0.170895925	0.550664647	1.750680344
21	1	8.497265068	1.141772134	382.3737494	0.027992148	0.278549319	1.003321581
22	7	0.982386748	0.285258112	3.54342452	1	1	1.356708934
23	2	4.499689141	0.573861906	207.2469027	0.167257394	0.550664647	1.035192407
24	43	0.250998514	0.052710812	0.949682539	0.027118022	0.278549319	1.333118589
25	39	0.685454626	0.180368988	2.382838154	0.581689574	0.862343679	1.236562099
26	23	0.615141092	0.176514099	2.162231013	0.403719931	0.751178501	0.920207653
27	41	0.653963564	0.181859488	2.234010843	0.579809267	0.862343679	1.310571127
28	30	0.458536718	0.125471275	1.722898622	0.219111314	0.639989145	1.573751951
29	27	0.665742384	0.191836381	2.333113245	0.571615989	0.862343679	1.018848086
30	91	0.610219608	0.146879128	2.200271275	0.568099842	0.862343679	1.698242636
31	101	0.369016032	0.060631389	1.559133591	0.23372669	0.639989145	1.873778131
32	66	0.163053178	0.026923203	0.679438196	0.005250752	0.180433064	1.133202592
33	38	0.982386748	0.285258112	3.54342452	1	1	1.222052438
34	28	0.254517737	0.062351125	1.0272344	0.037046877	0.329847195	0.938628734
35	158	0.399450818	0.065475678	1.695134778	0.234797264	0.639989145	1.71916651
36	54	0.421726934	0.101864447	1.508168056	0.169188036	0.550664647	1.208793614
37	84	0.566035651	0.136444383	2.035727055	0.402401375	0.751178501	1.653521742
38	107	1.187471967	0.27717847	4.493537628	0.762376209	0.947596186	1.991620639
39	18	0.42252356	0.108176275	1.73266328	0.186767929	0.583290609	1.149596611
40	76	0.814374916	0.226524888	2.787519219	0.784805744	0.947596186	1.577805086
41	38	0.836822303	0.243305831	2.915331115	0.784805744	0.947596186	1.129451287
42	79	0.270139738	0.05678233	1.021662971	0.049368158	0.351120019	1.290293001
43	43	0.453679616	0.109590259	1.623561792	0.262541591	0.639989145	1.047112309
44	557	0	0	4.883709534	0.56602222	0.862343679	3.509356564
45	12	0.412313993	0.082504525	2.289904209	0.236933923	0.639989145	0.784037231
46	284	1.653422279	0.13691892	12.90468076	0.624612165	0.91089274	2.87544364
47	52	0.385504433	0.105509092	1.330950692	0.097785476	0.457432868	1.053340269
48	32	1.030055257	0.254493024	5.095315064	1	1	0.673449987
49	31	0.708721804	0.195296706	2.769712432	0.556459572	0.862343679	0.857196092
50	127	1.082099079	0.254204571	4.054351925	1	1	1.787775151
51	35	0.554382838	0.154992702	2.052256056	0.370103046	0.751178501	0.813734189
52	843	0	0	17.16204785	1	1	4.079409964
53	88	0.689560126	0.177600538	3.002946439	0.532312977	0.862343679	0.921570222

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118	0.511337966	0.13462226	1.771015317	0.275185476	0.639989145	1.543014523
88	0.385504433	0.105509092	1.330950692	0.097785476	0.457432868	1.628017582
507	0.27883197	0.005973798	2.25635351	0.276617409	0.639989145	3.448528664
67	0.423330016	0.098966787	1.953694528	0.278064249	0.639989145	0.900363893
76	0.564645303	0.156661466	1.930238226	0.405521754	0.751178501	1.51852169
83	0.689560126	0.177600538	3.002946439	0.532312977	0.862343679	1.507647786
65	0.438266321	0.122519628	1.569824852	0.151260193	0.550664647	1.28151125
66	0.259787183	0.06921557	0.938709601	0.030175385	0.286720707	1.484109662
182	1.290574314	0.332113781	4.644392527	0.765430785	0.947596186	2.461356932
110	0.55009416	0.144882212	1.905742723	0.40443398	0.751178501	1.597139393
590	1.653422279	0.13691892	12.90468076	0.624612165	0.91089274	2.890361402
436	1.612683083	0.025940089	32.92362007	0.56602222	0.862343679	3.109079289
309	2.04221589	0.378868546	9.62650457	0.441230388	0.782952524	2.752420762
677	1.430920197	0.211173613	7.376963468	0.693541941	0.947596186	3.074398189
525	0.814374916	0.226524888	2.787519219	0.784805744	0.947596186	2.013458796
486	0.294488369	0.029474999	1.500933178	0.1300237	0.550664647	3.199909276
142	1.196973831	0.326504912	5.024457399	1	1	0.97892265
608	1.228426331	0.185135381	6.074643793	0.717545031	0.947596186	3.001649686
86	0.970235024	0.283110983	3.374233038	1	1	1.511943798
297	3.426852143	0.866630963	13.53459449	0.048307737	0.351120019	2.706481679
102	0.487739445	0.137811817	1.686590225	0.25686343	0.639989145	1.410320156
695	0.896606461	0.082386101	5.441019699	1	1	3.604689763
227	0.717798041	0.205071271	2.617430551	0.572314711	0.862343679	2.059105142
299	1.109457566	0.318794502	3.80791951	1	1	2.306264092
156	0.487739445	0.137811817	1.686590225	0.25686343	0.639989145	1.374570084
119	0.290637013	0.061124508	1.099166727	0.052515284	0.351120019	1.411426455
338	0.896606461	0.082386101	5.441019699	1	1	2.887069175
488	0.423874903	0.008775303	3.736201801	0.669851212	0.947596186	3.040407285
47	0.485581185	0.117319369	2.198379424	0.299202974	0.682451728	0.688760219
268	0.814374916	0.226524888	2.787519219	0.784805744	0.947596186	1.821560497
766	0.369016032	0.060631389	1.559133591	0.23372669	0.639989145	3.046160021
1073	0.783827172	0.014946827	8.712727085	1	1	4.151748016
957	0.504173332	0.010243699	4.669514393	1	1	3.442224676
391	0.321034736	0.032028144	1.64694147	0.204758844	0.624114795	2.344032506
1633	1.612683083	0.025940089	32.92362007	0.56602222	0.862343679	3.920760047
243	0.218732283	0.051344564	0.905925691	0.03074461	0.286720707	0.823210397
130	0.708721804	0.195296706	2.769712432	0.556459572	0.862343679	0.781948414
330	0.355578262	0.096853284	1.232038387	0.08786686	0.453463474	1.47582087
164	1.902959659	0.530259239	7.885780311	0.397203147	0.751178501	1.622146868
511	0.908079401	0.215482816	3.349557292	1	1	2.541595881
146	0.586039507	0.15801412	2.323835036	0.365205016	0.744343557	1.103256339
7718	0	0	3.488630212	0.327982169	0.71983959	5.286741605
101	0.529010503	0.140640642	2.117242881	0.341369646	0.734105962	0.865029319
52	0.330729687	0.085973257	1.286306599	0.099394316	0.457432868	0.767511921
407	0.250998514	0.052710812	0.949682539	0.027118022	0.278549319	1.839588575
277	0.399491899	0.110618192	1.440993094	0.134403268	0.550664647	1.417941823
2848	1.979070302	0.530973633	7.148556919	0.2403473	0.639989145	2.916101274
1002	1.101225288	0.298546916	4.64074128	1	1	1.576104563
2761	0.858988347	0.224994224	3.009558127	1	1	3.036705269
130	0.291812999	0.07388474	1.153893691	0.048307737	0.351120019	0.754176378
54	1.485195343	0.380703193	7.18380005	0.761502592	0.947596186	1.277243897
511	0.33853402	0.081629524	1.210970261	0.094232115	0.453463474	1.916168148

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FECAL_SCORE_T0_2POS	normFactor_T0	pvalues	adjPvalues	Kingdom	Phylum
-2.732852587	-1.37118403	4.48429E-09	2.27578E-06	k__Bacteria	p__Bacteroidetes
-2.39898009	2.142458496	0.002205915	0.027642023	k__Bacteria	p__Spirochaetes
-2.161074366	-0.413983115	3.59834E-09	2.27578E-06	k__Bacteria	p__Bacteroidetes
-2.137521854	-1.074040414	1.81517E-06	0.000199588	k__Bacteria	p__Bacteroidetes
-2.116266958	-1.164968307	8.43958E-07	0.000122374	k__Bacteria	p__Firmicutes
-1.949253549	-0.682717475	1.29735E-07	2.63361E-05	k__Bacteria	p__Firmicutes
-1.914954757	0.226759131	5.28835E-05	0.001917026	k__Bacteria	p__Bacteroidetes
-1.803244063	2.020044427	0.000454499	0.009414627	k__Bacteria	p__Bacteroidetes
-1.80173857	0.633018366	9.53775E-06	0.000537823	k__Bacteria	p__Firmicutes
-1.730185155	0.143059085	0.001438099	0.020558735	k__Bacteria	p__Firmicutes
-1.729054658	-0.460761417	0.000241	0.006001908	k__Bacteria	p__Firmicutes
-1.725721804	1.365378726	1.77466E-05	0.000818764	k__Bacteria	p__Firmicutes
-1.695774911	0.54387093	0.006882502	0.047200943	k__Bacteria	p__Bacteroidetes
-1.584327569	0.005653683	0.003793205	0.035070289	k__Bacteria	p__Firmicutes
-1.580251767	0.179849852	0.000835454	0.014133102	k__Bacteria	p__Firmicutes
-1.564689461	-0.42055524	1.96639E-06	0.000199588	k__Bacteria	p__Firmicutes
-1.543522097	0.264769525	4.07919E-06	0.000318491	k__Bacteria	p__Firmicutes
-1.509306732	0.81189549	0.000475271	0.009428794	k__Bacteria	p__Firmicutes
-1.508313223	-0.520956271	0.000947118	0.01575942	k__Bacteria	p__Firmicutes
-1.503788382	-0.069712707	0.000138209	0.004008069	k__Bacteria	p__Firmicutes
-1.476435526	-0.834326356	1.50033E-05	0.00076142	k__Bacteria	p__Bacteroidetes
-1.393070977	0.085752703	1.76629E-05	0.000818764	k__Bacteria	p__Firmicutes
-1.316822038	-0.620998406	0.006663488	0.046644415	k__Bacteria	p__Bacteroidetes
-1.314869304	-0.012365431	0.000179403	0.004791961	k__Bacteria	p__Firmicutes
-1.309197883	0.978644841	4.17064E-05	0.001567854	k__Bacteria	p__Firmicutes
-1.293503067	0.815932134	0.001019324	0.016422448	k__Bacteria	p__Bacteroidetes
-1.291048128	-0.18822912	0.003120512	0.032477204	k__Bacteria	p__Firmicutes
-1.278315963	-0.072492268	2.29573E-05	0.000973445	k__Bacteria	p__Actinobacteria
-1.25801025	3.303326917	0.006524703	0.046454538	k__Bacteria	p__Bacteroidetes
-1.252183918	-1.025147271	0.000149793	0.004223339	k__Bacteria	p__Bacteroidetes
-1.2488081	0.470506049	2.67906E-06	0.000226604	k__Bacteria	p__Bacteroidetes
-1.228530359	0.964435475	2.31248E-06	0.000213379	k__Bacteria	p__Firmicutes
-1.227191285	-0.468053807	1.20182E-05	0.000642023	k__Bacteria	p__Firmicutes
-1.226399848	1.45965983	0.00479363	0.038924276	k__Bacteria	p__Bacteroidetes
-1.21234697	0.591096101	0.006544827	0.046454538	k__Bacteria	p__Firmicutes
-1.206614647	-0.876209523	0.000481408	0.009428794	k__Bacteria	p__Firmicutes
-1.195073219	0.341332649	0.003822154	0.035070289	k__Bacteria	p__Firmicutes
-1.194970769	-0.318314538	3.70985E-05	0.001506197	k__Bacteria	p__Firmicutes
-1.177748178	2.911728988	4.11339E-05	0.001567854	k__Bacteria	p__Firmicutes
-1.150518821	0.746974856	5.53744E-05	0.001938104	k__Bacteria	p__Firmicutes
-1.146537013	2.254879227	0.001005744	0.016422448	k__Bacteria	p__Firmicutes
-1.13279299	0.098276164	0.000534842	0.010030882	k__Bacteria	p__Firmicutes
-1.121506528	0.62430494	0.002781524	0.03199797	k__Bacteria	p__Firmicutes
-1.105480333	0.621916304	8.73003E-05	0.002769057	k__Bacteria	p__Firmicutes
-1.082468676	0.11192925	0.003641295	0.035070289	k__Bacteria	p__Firmicutes
-1.077190303	0.038751653	0.002967047	0.032276715	k__Bacteria	p__Actinobacteria
-1.07339352	0.106940507	0.005412463	0.042223049	k__Bacteria	p__Firmicutes
-1.071801987	0.613118095	0.000242702	0.006001908	k__Bacteria	p__Bacteroidetes
-1.026426436	0.724203709	0.002839561	0.03199797	k__Bacteria	p__Firmicutes

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2	-1.02049724	0.673218037	0.00567401	0.043475127	k__Bacteria	p__Firmicutes
3	-0.999210479	0.729317884	0.000159046	0.004363024	k__Bacteria	p__Firmicutes
4	-0.987926134	0.464702865	0.002485332	0.030031092	k__Bacteria	p__Firmicutes
5	-0.973237861	1.200851228	0.002719717	0.03199797	k__Bacteria	p__Firmicutes
6	-0.96257528	0.730533725	0.006828863	0.047200943	k__Bacteria	p__Firmicutes
7	-0.95285366	0.379484219	0.001918596	0.026240222	k__Bacteria	p__Firmicutes
8	-0.944035476	-0.122692064	0.002868697	0.03199797	k__Bacteria	p__Firmicutes
9	-0.929416372	0.15000349	0.006049713	0.044625753	k__Bacteria	p__Bacteroidetes
10	-0.926427771	0.201294335	0.001830246	0.025801384	k__Bacteria	p__Firmicutes
11	-0.917388197	-0.463121821	0.006644842	0.046644415	k__Bacteria	p__Bacteroidetes
12	-0.895070968	0.248627434	0.006020815	0.044625753	k__Bacteria	p__Firmicutes
13	-0.892272043	0.062432289	0.004019328	0.035337287	k__Bacteria	p__Bacteroidetes
14	-0.87362	1.86517745	0.003830129	0.035070289	k__Bacteria	p__Firmicutes
15	-0.872882819	0.984801395	0.004073362	0.035337287	k__Bacteria	p__Firmicutes
16	-0.853577368	0.893405458	0.004237224	0.035839851	k__Bacteria	p__Firmicutes
17	-0.812214236	0.811726318	0.003703325	0.035070289	k__Bacteria	p__Firmicutes
18	-0.787768951	1.112098532	0.003880857	0.035170266	k__Bacteria	p__Firmicutes
19	-0.7873697	-0.217474387	0.005354487	0.042223049	k__Bacteria	p__Firmicutes
20	-0.765106525	0.781392399	0.006844337	0.047200943	k__Bacteria	p__Firmicutes
21	-0.749532066	0.529083057	0.006975026	0.047514442	k__Bacteria	p__Firmicutes
22	-0.628454661	-0.374356013	0.002762721	0.03199797	k__Bacteria	p__Firmicutes
23	-0.623042721	1.369570425	0.006309749	0.045715557	k__Bacteria	p__Firmicutes
24	0.668739985	0.096373683	0.003231722	0.032477204	k__Bacteria	p__Bacteroidetes
25	0.713034404	0.309489564	0.003688562	0.035070289	k__Bacteria	p__Firmicutes
26	0.750434672	0.967295863	0.002701597	0.03199797	k__Bacteria	p__Firmicutes
27	0.752306344	0.226839406	0.005401186	0.042223049	k__Bacteria	p__Firmicutes
28	0.768241644	1.355519535	0.005777591	0.0437631	k__Bacteria	p__Firmicutes
29	0.809732218	0.603164593	0.007419189	0.049218804	k__Bacteria	p__Firmicutes
30	0.811162919	-0.005262308	0.006350634	0.045715557	k__Bacteria	p__Firmicutes
31	0.819194625	-0.546186915	0.004223935	0.035839851	k__Bacteria	p__Bacteroidetes
32	0.822993758	0.126701148	0.002247646	0.027821466	k__Bacteria	p__Proteobacteria
33	0.845797246	0.307522284	0.007271739	0.048557996	k__Bacteria	p__Firmicutes
34	0.860081591	1.423941487	0.006067344	0.044625753	k__Bacteria	p__Proteobacteria
35	0.863313862	-0.945200619	0.004611625	0.038661687	k__Bacteria	p__Firmicutes
36	0.865660594	0.424733126	0.00109864	0.017155684	k__Bacteria	p__Firmicutes
37	0.87174205	0.079039178	0.004767905	0.038924276	k__Bacteria	p__Bacteroidetes
38	0.881881392	0.1855195	0.003178178	0.032477204	k__Bacteria	p__Firmicutes
39	0.903234763	1.583168679	0.004836844	0.038963465	k__Bacteria	p__Proteobacteria
40	0.927614154	-0.801980873	0.002169822	0.027529612	k__Bacteria	p__Firmicutes
41	0.929460478	-0.267612441	0.000618723	0.01121436	k__Bacteria	p__Firmicutes
42	0.950217594	-0.16102176	0.000685979	0.012004631	k__Bacteria	p__Bacteroidetes
43	0.970246654	0.202412631	8.91224E-06	0.000537823	k__Bacteria	p__Firmicutes
44	0.975789784	0.733103803	0.005696741	0.043475127	k__Bacteria	p__Firmicutes
45	0.984804148	1.317857936	0.003398163	0.03381505	k__Bacteria	p__Firmicutes
46	0.988865933	0.286541095	0.003124399	0.032477204	k__Bacteria	p__Bacteroidetes
47	1.002483641	-0.432100145	0.000543545	0.010030882	k__Bacteria	p__Firmicutes
48	1.019049538	1.132133901	0.001964785	0.026240222	k__Bacteria	p__Bacteroidetes
49	1.025288205	0.917264711	0.00127787	0.019643251	k__Bacteria	p__Firmicutes
50	1.030313196	0.479331881	0.001423727	0.020558735	k__Bacteria	p__Bacteroidetes
51	1.051730053	1.2436016	0.000274977	0.006202265	k__Bacteria	p__Firmicutes
52	1.057409173	0.221175846	0.00315485	0.032477204	k__Bacteria	p__Firmicutes
53	1.109861079	-0.206459916	0.006199594	0.045270414	k__Bacteria	p__Bacteroidetes

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2	1.11152104	-0.234179458	0.001307232	0.019643251	k__Bacteria	p__Bacteroidetes
3	1.117234724	-0.644656609	0.000261669	0.006036239	k__Bacteria	p__Firmicutes
4	1.124020253	0.472669429	0.00512291	0.040942943	k__Bacteria	p__Bacteroidetes
5	1.133783942	1.790546594	0.004044333	0.035337287	k__Bacteria	p__Bacteroidetes
6	1.150732069	-0.820318326	0.001058464	0.016786583	k__Bacteria	p__Bacteroidetes
7	1.162936206	-1.639826657	0.006029854	0.044625753	k__Bacteria	p__Bacteroidetes
8	1.169453023	0.197035691	0.005449477	0.042223049	k__Bacteria	p__Bacteroidetes
9	1.171769976	1.437010341	0.00311362	0.032477204	k__Bacteria	p__Proteobacteria
10	1.205725683	0.838027056	0.007226293	0.048557996	k__Bacteria	p__Firmicutes
11	1.234881305	-0.039638155	0.000285621	0.006302287	k__Bacteria	p__Bacteroidetes
12	1.25023278	0.778044931	0.004172857	0.035839851	k__Bacteria	p__Firmicutes
13	1.258528268	-0.481860716	0.000394949	0.008529224	k__Bacteria	p__Firmicutes
14	1.259670675	1.336142177	0.004721735	0.038924276	k__Bacteria	p__Bacteroidetes
15	1.283946803	2.133429557	0.007254887	0.048557996	k__Bacteria	p__Firmicutes
16	1.310766235	-1.995047214	0.004029178	0.035337287	k__Bacteria	p__Firmicutes
17	1.331837288	0.706792023	0.003918798	0.035199825	k__Bacteria	p__Firmicutes
18	1.340556973	1.711653796	0.002868783	0.03199797	k__Bacteria	p__Firmicutes
19	1.379154965	1.557168069	0.00464702	0.038661687	k__Bacteria	p__Firmicutes
20	1.395883418	-0.561190161	2.30174E-05	0.000973445	k__Bacteria	p__Firmicutes
21	1.408433941	0.134322345	0.001949185	0.026240222	k__Bacteria	p__Firmicutes
22	1.416142384	0.81388985	0.00076815	0.013214775	k__Bacteria	p__Firmicutes
23	1.418172223	0.150165922	0.003526081	0.034442606	k__Bacteria	p__Bacteroidetes
24	1.43277603	-2.211707847	0.002989174	0.032276715	k__Bacteria	p__Proteobacteria
25	1.449493728	-0.649129431	0.001861028	0.025875941	k__Bacteria	p__Bacteroidetes
26	1.457068685	0.6590572	0.002082863	0.026859716	k__Bacteria	p__Firmicutes
27	1.458117651	-0.200593833	4.82625E-06	0.000349903	k__Bacteria	p__Bacteroidetes
28	1.463441183	0.550102812	5.9139E-06	0.000400174	k__Bacteria	p__Bacteroidetes
29	1.493654981	0.399240646	0.000248355	0.006001908	k__Bacteria	p__Bacteroidetes
30	1.531847032	0.8582953	0.000119069	0.003554568	k__Bacteria	p__Firmicutes
31	1.552728399	1.772895104	0.001316001	0.019643251	k__Bacteria	p__Firmicutes
32	1.565350999	-0.028158203	0.003209611	0.032477204	k__Bacteria	p__Firmicutes
33	1.592774441	1.645430706	0.001427602	0.020558735	k__Bacteria	p__Bacteroidetes
34	1.613309922	1.052822426	0.002090559	0.026859716	k__Bacteria	p__Bacteroidetes
35	1.649296062	1.258303009	0.000258773	0.006036239	k__Bacteria	p__Bacteroidetes
36	1.718881944	0.774630631	0.002082374	0.026859716	k__Bacteria	p__Proteobacteria
37	1.77606733	-1.25382027	0.000496463	0.009507737	k__Bacteria	p__Fusobacteria
38	1.777043855	1.547377384	8.56189E-05	0.002769057	k__Bacteria	p__Proteobacteria
39	1.78134091	-1.595424222	0.00022134	0.005760517	k__Bacteria	p__Firmicutes
40	1.889511842	1.955819728	0.003835273	0.035070289	k__Bacteria	p__Firmicutes
41	1.914222353	0.025484921	0.000483052	0.009428794	k__Bacteria	p__Bacteroidetes
42	1.915119469	-0.486338915	0.000420184	0.008885151	k__Bacteria	p__Firmicutes
43	1.926807137	1.80422352	0.003529095	0.034442606	Unassigned	NA
44	1.968862331	0.2370881	0.00010881	0.00334673	k__Bacteria	p__Firmicutes
45	2.008867879	0.632023414	9.88584E-08	2.50853E-05	k__Bacteria	p__Bacteroidetes
46	2.016413292	0.384062963	7.14663E-05	0.002417944	k__Bacteria	p__Bacteroidetes
47	2.161300692	-2.360415284	9.44079E-06	0.000537823	k__Bacteria	p__Proteobacteria
48	2.207877424	-0.348393553	0.002925321	0.032273919	k__Bacteria	p__Firmicutes
49	2.212030968	-1.130540234	0.002406205	0.02942528	k__Bacteria	p__Bacteroidetes
50	2.397053871	-2.450321119	0.000641594	0.011424868	k__Bacteria	p__Proteobacteria
51	2.473541581	0.41779751	1.65653E-07	0.000028023	k__Bacteria	p__Bacteroidetes
52	2.523075283	0.817392383	4.21674E-08	1.42666E-05	k__Bacteria	p__Firmicutes
53	2.638119712	1.243886081	1.31088E-06	0.000166317	k__Bacteria	p__Bacteroidetes

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Class	Order	Family	Genus
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Spirochaetes	o__Spirochaetales	f__Spirochaetaceae	g__Treponema
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Clostridia	o__Clostridiales	f__	g__
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Ruminococcus
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Bacteroidia	o__Bacteroidales	f__S24-7	g__
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__Coprococcus
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	NA
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Ruminococcus
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
c__Clostridia	o__Clostridiales	f__Christensenellaceae	g__
c__Clostridia	o__Clostridiales	f__	g__
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__Blautia
c__Clostridia	o__Clostridiales	f__Christensenellaceae	g__
c__Bacilli	o__Lactobacillales	f__Lactobacillaceae	g__Lactobacillus
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Clostridia	o__Clostridiales	f__	g__
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__[Ruminococcus]
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
c__Coriobacteriia	o__Coriobacteriales	f__Coriobacteriaceae	g__
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
c__Clostridia	o__Clostridiales	f__	g__
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__Blautia
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
c__Clostridia	o__Clostridiales	f__	g__
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Oscillospira
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__Roseburia
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
c__Clostridia	o__Clostridiales	f__	g__
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Ruminococcus
c__Coriobacteriia	o__Coriobacteriales	f__Coriobacteriaceae	g__
c__Clostridia	o__Clostridiales	f__	g__
c__Bacteroidia	o__Bacteroidales	f__S24-7	g__
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Ruminococcus

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2	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
3	c__Bacilli	o__Lactobacillales	f__Streptococcaceae	g__Streptococcus
4	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__Roseburia
5	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
6	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
7	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Oscillospira
8	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
9	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
10	c__Bacteroidia	o__Bacteroidales	f__[Paraprevotellaceae]	g__CF231
11	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Oscillospira
12	c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
13	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
14	c__Bacteroidia	o__Bacteroidales	f__S24-7	g__
15	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
16	c__Clostridia	o__Clostridiales	f__Christensenellaceae	g__
17	c__Clostridia	o__Clostridiales	f__	g__
18	c__Clostridia	o__Clostridiales	f__	g__
19	c__Clostridia	o__Clostridiales	f__	g__
20	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__Coprococcus
21	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
22	c__Clostridia	o__Clostridiales	f__	g__
23	c__Clostridia	o__Clostridiales	f__[Mogibacteriaceae]	g__
24	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Oscillospira
25	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Ruminococcus
26	c__Clostridia	o__Clostridiales	f__Porphyromonadaceae	g__Parabacteroides
27	c__Bacteroidia	o__Bacteroidales	f__Lachnospiraceae	g__
28	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
29	c__Clostridia	o__Clostridiales	f__[Mogibacteriaceae]	g__
30	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
31	c__Clostridia	o__Clostridiales	f__[Mogibacteriaceae]	g__
32	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
33	c__Clostridia	o__Clostridiales	f__[Mogibacteriaceae]	g__
34	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
35	c__Bacteroidia	o__Bacteroidales	f__S24-7	g__
36	c__Betaproteobacteria	o__Burkholderiales	f__Alcaligenaceae	g__Sutterella
37	c__Clostridia	o__Clostridiales	f__	g__
38	c__Clostridia	o__Clostridiales	f__	g__
39	c__Gammaproteobacteria	o__Pasteurellales	f__Pasteurellaceae	g__Actinobacillus
40	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Oscillospira
41	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
42	c__Bacteroidia	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]
43	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
44	c__Gammaproteobacteria	o__Pasteurellales	f__Pasteurellaceae	g__Actinobacillus
45	c__Clostridia	o__Clostridiales	f__	g__
46	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
47	c__Clostridia	o__Clostridiales	f__[Paraprevotellaceae]	g__[Prevotella]
48	c__Bacteroidia	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]
49	c__Clostridia	o__Clostridiales	f__Peptococcaceae	g__rc4-4
50	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
51	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
52	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
53	c__Bacteroidia	o__Bacteroidales	f__[Paraprevotellaceae]	g__YRC22
54	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
55	c__Bacteroidia	o__Bacteroidales	f__[Paraprevotellaceae]	g__
56	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	NA
57	c__Bacteroidia	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]
58	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Faecalibacterium
59	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
60	c__Bacteroidia	o__Bacteroidales	f__S24-7	g__

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2	c__Bacteroidia	o__Bacteroidales	f__Bacteroidaceae	g__Bacteroides
3	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__Coproccoccus
4	c__Bacteroidia	o__Bacteroidales	f__Porphyromonadaceae	g__Parabacteroides
5	c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
6	c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
7	c__Bacteroidia	o__Bacteroidales	f__Bacteroidaceae	g__Bacteroides
8	c__Bacteroidia	o__Bacteroidales	f__S24-7	g__
9	c__Gammaproteobacteria	o__Pasteurellales	f__Pasteurellaceae	g__Actinobacillus
10	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
11	c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
12	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
13	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
14	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
15	c__Bacteroidia	o__Bacteroidales	f__	g__
16	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
17	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__Coproccoccus
18	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
19	c__Clostridia	o__Clostridiales	f__	g__
20	c__Clostridia	o__Clostridiales	f__	g__
21	c__Clostridia	o__Clostridiales	f__	g__
22	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
23	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Oscillospira
24	c__Clostridia	o__Clostridiales	f__[Mogibacteriaceae]	g__Anaerovorax
25	c__Bacteroidia	o__Bacteroidales	f__S24-7	g__
26	c__Epsilonproteobacteria	o__Campylobacterales	f__Helicobacteraceae	g__Helicobacter
27	c__Bacteroidia	o__Bacteroidales	f__Bacteroidaceae	g__Bacteroides
28	c__Clostridia	o__Clostridiales	f__	g__
29	c__Bacteroidia	o__Bacteroidales	f__Porphyromonadaceae	g__Parabacteroides
30	c__Bacteroidia	o__Bacteroidales	f__Bacteroidaceae	g__Bacteroides
31	c__Bacteroidia	o__Bacteroidales	f__Porphyromonadaceae	g__Parabacteroides
32	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
33	c__Clostridia	o__Clostridiales	f__	g__
34	c__Clostridia	o__Clostridiales	f__	g__
35	c__Bacteroidia	o__Bacteroidales	f__Porphyromonadaceae	g__Parabacteroides
36	c__Bacteroidia	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]
37	c__Bacteroidia	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]
38	c__Gammaproteobacteria	o__Enterobacteriales	f__Enterobacteriaceae	g__
39	c__Fusobacteriia	o__Fusobacteriales	f__Fusobacteriaceae	g__Fusobacterium
40	c__Alphaproteobacteria	o__	f__	g__
41	c__Clostridia	o__Clostridiales	f__	g__
42	c__Clostridia	o__Clostridiales	f__Veillonellaceae	g__Anaerovibrio
43	c__Bacteroidia	o__Bacteroidales	f__Bacteroidaceae	g__Bacteroides
44	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
45	NA	NA	NA	NA
46	c__Clostridia	o__Clostridiales	f__	g__
47	c__Bacteroidia	o__Bacteroidales	f__S24-7	g__
48	c__Bacteroidia	o__Bacteroidales	f__Bacteroidaceae	g__Bacteroides
49	c__Epsilonproteobacteria	o__Campylobacterales	f__Helicobacteraceae	g__
50	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
51	c__Bacteroidia	o__Bacteroidales	f__Bacteroidaceae	g__Bacteroides
52	c__Epsilonproteobacteria	o__Campylobacterales	f__Helicobacteraceae	g__
53	c__Bacteroidia	o__Bacteroidales	f__	g__
54	c__Epsilonproteobacteria	o__Campylobacterales	f__Helicobacteraceae	g__
55	c__Bacteroidia	o__Bacteroidales	f__	g__
56	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__Dorea
57	c__Bacteroidia	o__Bacteroidales	f__S24-7	g__

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- 4 **Species**
- 5 s__
- 6 s__
- 7 s__
- 8 s__
- 9 s__copri
- 10 s__
- 11 s__
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- 25 s__
- 26 s__
- 27 s__mucosae
- 28 s__stercorea
- 29 s__
- 30 s__copri
- 31 s__
- 32 s__
- 33 s__
- 34 s__copri
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- 58 s__
- 59 s__
- 60 s__flavefaciens

For Peer Review

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39 s__porcinus
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58 s__prausnitzii
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For Peer Review

Table S7: Differentially abundant OTUs when comparing the experimental groups at T1.

OTU	+samples in group 0	+samples in group 1	counts in group 0
New.CleanUp.ReferenceOTU63327	13	6	97
	355697	36	7288
New.ReferenceOTU105	10	7	179
	581474	45	2632
	46910	40	1091
	179806	33	1100
	1654477	9	299
	74192	13	145
New.ReferenceOTU7331	17	16	395
	4306043	2	2
	296406	9	4079
	47477	14	179
New.ReferenceOTU5018	11	1	274
	354461	25	129
	516159	42	2127
	532232	28	230
New.ReferenceOTU3115	24	0	197
New.CleanUp.ReferenceOTU8158	25	13	2793
	509416	33	256
New.ReferenceOTU741	19	16	556
	471412	4	33
	553352	44	404
	531052	32	1225
	875643	33	1337
	579431	27	1510
	1038455	8	81
	198552	25	547
	753891	31	1797
	355246	10	197
	318997	9	141
	347085	13	264
	533277	19	124
	470382	31	365
	551902	32	664
	346606	23	291
New.ReferenceOTU8856	31	1	567
	279534	25	257
	549756	34	164
New.ReferenceOTU9226	25	1	175
New.ReferenceOTU6457	21	19	104
New.ReferenceOTU3384	18	0	305
	337057	25	243
	350666	22	109
	335846	15	250
	315271	29	928
	527413	14	33
New.ReferenceOTU5866	33	18	305
	703741	47	6952
New.ReferenceOTU1242	38	24	2885

1					
2		99414	16	2	484
3		335884	18	5	178
4		515953	44	20	5024
5		355175	13	10	121
6		364736	24	3	155
7		352943	11	6	177
8		305187	36	17	1764
9					
10	New.ReferenceOTU3914		15	1	224
11		369429	33	6	241
12	New.ReferenceOTU2159		11	2	54
13		870421	39	20	2121
14		309745	11	8	287
15	New.ReferenceOTU1474		13	4	63
16		425675	15	0	113
17		366584	45	22	4033
18		366716	23	2	90
19		588197	47	24	3622
20		327017	16	2	102
21		1110135	17	13	185
22		804526	33	15	597
23		819181	43	24	4895
24					
25	New.ReferenceOTU1467		10	1	28
26	New.ReferenceOTU6787		11	7	50
27		72926	45	24	1567
28		306124	9	8	22
29		366986	26	4	214
30		356245	29	12	627
31		276561	7	16	45
32		288265	28	16	1358
33	New.ReferenceOTU6967		13	6	59
34	New.CleanUp.ReferenceOTU27900		8	4	37
35	New.ReferenceOTU5504		16	10	92
36		727140	17	1	125
37		584083	36	15	1087
38	New.ReferenceOTU10703		12	7	60
39		172163	36	19	357
40		288250	43	20	2440
41		361727	18	2	104
42	New.ReferenceOTU4309		40	15	814
43		368490	29	14	336
44	New.ReferenceOTU5775		12	2	51
45	New.ReferenceOTU5967		8	6	73
46		532771	34	10	1162
47	New.ReferenceOTU6615		45	24	1489
48		343709	37	10	799
49		759751	34	13	658
50		40798	36	24	651
51		355187	14	8	132
52		519882	18	1	132
53	New.ReferenceOTU890		24	5	200
54		510286	11	9	29
55		370361	24	5	113
56					
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1					
2		517344	47	24	3018
3		1107057	24	3	212
4		302158	45	24	3284
5	New.ReferenceOTU11247		13	7	152
6		697548	10	2	114
7		577406	28	3	148
8	New.ReferenceOTU471		15	1	112
9	New.ReferenceOTU10379		37	21	323
10					
11		337379	44	17	1417
12		584263	28	4	262
13	New.ReferenceOTU7356		16	14	152
14		536754	22	2	70
15		531436	25	5	107
16		589852	44	22	3327
17					
18	New.CleanUp.ReferenceOTU68137		7	6	15
19		843459	33	9	268
20		313423	12	3	82
21		249776	11	9	130
22					
23	New.ReferenceOTU3592		19	2	118
24		302144	15	3	97
25		580090	33	5	259
26	New.ReferenceOTU6315		12	11	33
27		290804	40	15	393
28	New.ReferenceOTU2729		8	6	13
29	New.ReferenceOTU4568		32	16	137
30					
31		337784	28	6	85
32		366623	25	4	101
33		523751	18	9	59
34		524117	21	5	63
35		296094	38	20	947
36	New.ReferenceOTU3298		19	8	66
37	New.ReferenceOTU11302		11	5	42
38	New.ReferenceOTU1706		14	2	25
39	New.ReferenceOTU3326		10	15	62
40					
41		345730	16	2	75
42	New.ReferenceOTU5058		10	4	62
43		807795	36	14	252
44		519763	18	18	80
45		359779	12	7	59
46					
47	New.ReferenceOTU2439		9	5	41
48	New.ReferenceOTU9945		33	17	221
49	New.ReferenceOTU9381		7	3	15
50		347189	11	8	19
51	New.ReferenceOTU7952		26	3	126
52	New.ReferenceOTU8097		11	9	34
53					
54		4315785	26	7	173
55		147100	17	4	77
56		683621	46	24	2148
57		530928	20	6	101
58		370183	34	12	285
59		976470	23	10	92
60		367813	11	2	66

1					
2		362342	40	19	468
3		163857	15	1	25
4		91359	16	6	61
5	New.ReferenceOTU1755		9	4	21
6		300355	26	7	97
7	New.ReferenceOTU4443		27	13	105
8		216111	21	4	88
9	New.ReferenceOTU1359		16	13	47
10	New.ReferenceOTU6786		12	11	53
11		309433	24	17	123
12		529873	14	3	59
13		302975	33	7	91
14		42636	18	1	64
15		588216	9	10	22
16	New.ReferenceOTU2215		13	13	33
17	New.ReferenceOTU10211		14	11	34
18		333028	14	14	43
19	New.ReferenceOTU121		13	2	32
20	New.ReferenceOTU3992		19	3	55
21	New.ReferenceOTU10389		9	10	30
22	New.ReferenceOTU862		10	8	16
23		294053	8	3	25
24	New.ReferenceOTU4403		26	18	49
25		250784	14	6	28
26	New.ReferenceOTU2527		17	9	35
27	New.ReferenceOTU10738		21	6	55
28		195465	19	13	47
29	New.ReferenceOTU1040		40	20	242
30		351659	22	17	46
31	New.ReferenceOTU7023		26	6	50
32	New.ReferenceOTU7944		25	9	52
33	New.ReferenceOTU10710		33	16	71
34		189083	23	8	51
35	New.CleanUp.ReferenceOTU140068		18	9	45
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counts in group 1	oddsRatio	lower	upper	fisherP	fisherAdjP
604	1.144855281	0.333366374	4.320932941	1	1
802	3.78589901	1.195734382	12.56487402	0.016144643	0.177591071
385	0.660396559	0.187521392	2.418485348	0.55926239	0.951332062
62	7.261410408	1.161500304	79.93873303	0.015273871	0.17355146
23	10.91959577	3.109670796	43.48187533	2.50E-05	0.001990173
49	5.56788274	1.736456437	19.764154	0.002041379	0.055547002
94	0.479040786	0.135015218	1.705760694	0.241925579	0.689121346
644	0.38794242	0.121774842	1.206045078	0.072372137	0.389754113
2737	0.288721167	0.087002209	0.891114873	0.023061076	0.211364178
133	0.047070017	0.00454352	0.251630164	1.26E-05	0.001866972
1	5.349713212	0.664301917	248.6714589	0.148048002	0.548679693
0	Inf	2.112523356	Inf	0.001600041	0.052122961
1	6.886123482	0.88980715	314.9390992	0.048808799	0.313467689
0	Inf	5.765405504	Inf	2.39E-06	0.000509214
312	1.667113939	0.297228328	8.706725657	0.475105879	0.913777868
2	15.59175857	3.227420263	152.2701792	2.96E-05	0.002184718
0	Inf	5.302483193	Inf	3.33E-06	0.000573434
1459	0.962054956	0.317882335	2.879164725	1	1
5	51.06328872	6.996724507	2267.622741	4.19E-08	4.33E-05
1084	0.344671988	0.104825341	1.057090469	0.046614978	0.301249298
52	0.231395355	0.04373674	1.046616207	0.036157785	0.283235986
8	27.25010479	6.020708671	180.1428818	1.42E-07	7.34E-05
37	5.050410966	1.585418554	17.77275376	0.002504368	0.058852638
72	3.24034899	1.05388229	10.43194339	0.023916449	0.211364178
44	3.968973989	1.228663079	14.54543173	0.012295252	0.145545777
304	0.619789817	0.160064851	2.509866438	0.530822665	0.951332062
2	25.15780236	3.50641527	1112.114464	2.35E-05	0.001990173
217	3.79619526	1.224417229	12.6817161	0.012100318	0.145545777
473	0.094087108	0.023605618	0.324799919	2.16E-05	0.001990173
1	5.349713212	0.664301917	248.6714589	0.148048002	0.548679693
4	2.642874181	0.62060939	16.15182908	0.230350677	0.672832203
0	Inf	3.444542971	Inf	0.000117987	0.007180712
6	13.02495767	3.204125742	78.39038316	1.70E-05	0.001990173
39	5.050410966	1.585418554	17.77275376	0.002504368	0.058852638
20	10.23611516	2.119717567	99.67197356	0.000599332	0.028168584
49	42.27787557	5.840564286	1872.753654	4.64E-07	0.00015997
490	0.38391423	0.105267487	1.241835126	0.122636047	0.513383288
4	17.41890711	4.214398355	106.7292706	2.46E-06	0.000509214
1	25.15780236	3.50641527	1112.114464	2.35E-05	0.001990173
173	0.217297514	0.054006151	0.734355541	0.006249981	0.102579058
0	Inf	3.143943492	Inf	0.00028221	0.015358166
18	5.545779592	1.533519828	25.765084	0.004528441	0.088347312
191	0.445154571	0.136420399	1.360280161	0.136417077	0.520499106
325	0.660279858	0.212200727	2.074532516	0.441731044	0.891839929
75	3.167088185	1.029854406	10.46035091	0.027292324	0.231313632
141	0.364569007	0.114895063	1.119298752	0.069793937	0.387994251
470	0.788343906	0.210446868	2.673410988	0.783959323	1
898	0	0	Inf	1	1
3709	0	0	0.899571925	0.023802469	0.211364178

1							
2	3	5.560751645	1.122460883	54.73975706	0.021737497	0.211364178	
3	16	2.331480841	0.678231383	9.424488543	0.183187719	0.628179598	
4	1740	2.884656934	0.443128977	21.57112902	0.216417054	0.642971655	
5	201	0.540230386	0.169601807	1.723534398	0.28729875	0.751398264	
6	5	7.111900392	1.768783147	42.23767363	0.001764317	0.052122961	
7	407	0.917800794	0.258464484	3.53494286	1	1	
8	231	1.341757481	0.371512268	4.619123586	0.773675281	1	
9	3	10.5189743	1.420473943	472.1300177	0.007463818	0.113493941	
10	15	6.852073635	2.071176146	25.89768294	0.000395036	0.020423353	
11	8	3.312075361	0.632032848	33.52672828	0.194720237	0.630354866	
12	223	0.975345292	0.19118716	4.200455423	1	1	
13	150	0.615512256	0.182695357	2.123825103	0.405399023	0.891051008	
14	9	1.895350484	0.493528205	9.081192758	0.386241948	0.873904102	
15	0	Inf	2.347711936	Inf	0.00135939	0.04846928	
16	408	2.023370953	0.138180349	29.63935381	0.599479228	0.951332062	
17	5	10.23611516	2.119717567	99.67197356	0.000599332	0.028168584	
18	538	0	0	Inf	1	1	
19	4	5.560751645	1.122460883	54.73975706	0.021737497	0.211364178	
20	418	0.484645309	0.156691604	1.462272921	0.204677519	0.630354866	
21	46	1.407190297	0.43435552	4.460601335	0.595082454	0.951332062	
22	3343	0	0	2.943871142	0.292413303	0.751398264	
23	1	6.097671651	0.77410283	280.9157538	0.084691784	0.414408213	
24	82	0.745291168	0.216491285	2.691701155	0.773675281	1	
25	2474	0	0	10.48090994	0.546076459	0.951332062	
26	510	0.479040786	0.135015218	1.705760694	0.241925579	0.689121346	
27	18	6.032813219	1.667701392	28.05369232	0.002208656	0.05600413	
28	48	1.600071349	0.530177954	4.875352303	0.447402492	0.891839929	
29	192	0.091578482	0.022998088	0.321577448	2.50E-05	0.001990173	
30	123	0.739990143	0.226137593	2.289809382	0.613719227	0.951332062	
31	16	1.144855281	0.333366374	4.320932941	1	1	
32	6	1.025277927	0.238069423	5.230476777	1	1	
33	306	0.725972037	0.235389773	2.26795459	0.606095265	0.951332062	
34	10	12.68808162	1.735018355	566.3096589	0.003333777	0.071815118	
35	161	1.944053554	0.582263943	6.458556302	0.267650079	0.734085364	
36	8	0.834844216	0.247066396	2.981018016	0.781558871	1	
37	330	0.8630473	0.204131973	3.20446748	1	1	
38	476	2.125096817	0.357322959	12.67566905	0.429627688	0.891839929	
39	4	6.67116052	1.362391801	65.42612667	0.010953586	0.145545777	
40	77	3.362244268	0.928032746	12.80624344	0.039726114	0.287250361	
41	240	1.14850271	0.370701282	3.494378554	0.802530857	1	
42	5	3.7116613	0.719578615	37.31950607	0.118126723	0.507544578	
43	59	0.619789817	0.160064851	2.509866438	0.530822665	0.951332062	
44	38	3.588202446	1.157391337	11.69564689	0.019310906	0.205850274	
45	349	0	0	10.48090994	0.546076459	0.951332062	
46	97	5.041792021	1.566946323	17.32881208	0.003148762	0.071815118	
47	100	2.186987145	0.69666434	6.948064634	0.184548648	0.628179598	
48	822	0	0	0.675520212	0.01204855	0.145545777	
49	43	0.850478861	0.264531761	2.849178114	0.790872624	1	
50	2	13.88148181	1.907319636	618.2263909	0.001692164	0.052122961	
51	8	3.889744667	1.151091084	15.6156785	0.021063673	0.211364178	
52	92	0.514389122	0.154833364	1.717434185	0.267650079	0.734085364	
53	8	3.889744667	1.151091084	15.6156785	0.021063673	0.211364178	

1							
2	3328	0	0	Inf	1	1	
3	8	7.111900392	1.768783147	42.23767363	0.001764317	0.052122961	
4	2223	0	0	10.48090994	0.546076459	0.951332062	
5	104	0.929547371	0.27934091	3.287932547	1	1	
6	17	2.933567267	0.549008834	29.97663782	0.20190488	0.630354866	
7	7	9.97519782	2.475270753	59.52162293	0.000140882	0.008092905	
8	1	10.5189743	1.420473943	472.1300177	0.007463818	0.113493941	
9	278	0.53300358	0.084881706	2.389456171	0.520775475	0.951332062	
10	174	5.865161926	1.173574266	39.25854389	0.025227726	0.218955641	
11	26	7.155995944	1.973152807	33.40465097	0.000862658	0.035679547	
12	101	0.374169384	0.118326988	1.135987291	0.075064355	0.393992605	
13	2	9.413210345	1.946326879	91.70498159	0.00123269	0.047207474	
14	13	4.230082221	1.252165669	16.99515728	0.011408501	0.145545777	
15	1752	1.327692277	0.103783594	12.49417369	1	1	
16	14	0.530086159	0.130624917	2.202633123	0.340404492	0.782173878	
17	22	3.845948084	1.242020347	12.66044286	0.011053285	0.145545777	
18	18	2.373074083	0.549584719	14.60999829	0.237587332	0.682403614	
19	81	0.514389122	0.154833364	1.717434185	0.267650079	0.734085364	
20	6	7.284131131	1.494028351	71.36785971	0.005654718	0.097449635	
21	5	3.232148847	0.775078512	19.5291065	0.090540948	0.417943482	
22	16	8.642811941	2.496650495	35.84128286	0.000118058	0.007180712	
23	38	0.410757466	0.12733923	1.302584125	0.109912463	0.487766038	
24	53	3.362244268	0.928032746	12.80624344	0.039726114	0.287250361	
25	19	0.619789817	0.160064851	2.509866438	0.530822665	0.951332062	
26	147	1.065693103	0.320250574	3.389902401	1	1	
27	13	4.325593825	1.336717009	15.89862287	0.006705046	0.106661811	
28	8	5.545779592	1.533519828	25.765084	0.004528441	0.088347312	
29	93	1.033997614	0.337215296	3.280757265	1	1	
30	8	3.022679899	0.890008645	12.14017895	0.068596684	0.387994251	
31	191	0.846438159	0.16898642	3.5227661	1	1	
32	17	1.351369353	0.436717575	4.422086518	0.613719227	0.951332062	
33	23	1.158685046	0.312064331	4.898791624	1	1	
34	3	4.58159286	0.909651637	45.49543009	0.069178434	0.387994251	
35	78	0.167192758	0.047690245	0.541610758	0.00127879	0.047223875	
36	4	5.560751645	1.122460883	54.73975706	0.021737497	0.211364178	
37	4	1.345805052	0.332168591	6.643659582	0.759396239	1	
38	34	2.307903234	0.707584909	7.604958154	0.168527657	0.596772593	
39	153	0.211816289	0.057421343	0.687195646	0.005381047	0.094305123	
40	62	0.834844216	0.247066396	2.981018016	0.781558871	1	
41	10	0.901353355	0.230954763	3.920427841	1	1	
42	139	0.970991687	0.276676794	3.190480899	1	1	
43	3	1.221565215	0.246056164	8.074815784	1	1	
44	34	0.615512256	0.182695357	2.123825103	0.405399023	0.891051008	
45	4	8.411338346	2.092236037	50.03647838	0.000714782	0.030795196	
46	43	0.514389122	0.154833364	1.717434185	0.267650079	0.734085364	
47	14	2.959773512	0.947172888	10.13787549	0.046259261	0.301249298	
48	9	2.794727866	0.755297467	13.11001364	0.106115906	0.477060202	
49	1446	0	0	76.28515635	1	1	
50	28	2.197995298	0.675731344	8.036452409	0.19553661	0.630354866	
51	67	2.577702125	0.829156404	8.211876774	0.072372137	0.389754113	
52	21	1.336118109	0.446324743	4.109790325	0.621021757	0.951332062	
53	11	3.312075361	0.632032848	33.52672828	0.194720237	0.630354866	

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2	111	1.494823625	0.328829161	6.327789724	0.523584117	0.951332062
3	2	10.5189743	1.420473943	472.1300177	0.007463818	0.113493941
4	10	1.539110546	0.46267187	5.698441703	0.588874591	0.951332062
5	9	1.181421217	0.283867839	5.917635271	1	1
6	20	2.959773512	0.947172888	10.13787549	0.046259261	0.301249298
7	112	1.140159106	0.375962391	3.430996784	0.805803074	1
8	17	3.963498066	1.090240513	18.42432019	0.034194736	0.278404386
9	53	0.442079692	0.141933046	1.34016658	0.12910392	0.515418737
10	24	0.410757466	0.12733923	1.302584125	0.109912463	0.487766038
11	140	0.434777588	0.127337398	1.35960029	0.13328804	0.518272242
12	4	2.929106162	0.695656865	17.78769789	0.145170727	0.545841933
13	12	5.56788274	1.736456437	19.764154	0.002041379	0.055547002
14	4	13.88148181	1.907319636	618.2263909	0.001692164	0.052122961
15	57	0.337326445	0.09720896	1.136578816	0.052269653	0.321707267
16	60	0.329165283	0.102455215	1.019139904	0.038334385	0.287250361
17	55	0.506496367	0.1614522	1.576804036	0.199599633	0.630354866
18	55	0.308608734	0.095859416	0.948872573	0.023916449	0.211364178
19	2	4.134153346	0.811984766	41.28997337	0.071406088	0.389754113
20	5	4.656197525	1.144722553	27.77122162	0.028326101	0.238123484
21	25	0.337326445	0.09720896	1.136578816	0.052269653	0.321707267
22	18	0.545486909	0.158217332	1.909026877	0.387260839	0.874296306
23	3	1.428910304	0.300533206	9.242881717	0.739006951	1
24	69	0.417761942	0.114428051	1.354636127	0.127292305	0.515418737
25	14	1.268481931	0.374053972	4.751793218	0.783959323	1
26	14	0.945208878	0.306350999	3.010451002	1	1
27	8	2.393707757	0.738205618	8.739115907	0.127292305	0.515418737
28	55	0.578748014	0.189136382	1.734750987	0.319017252	0.751398264
29	58	1.140670806	0.218457124	5.13848357	1	1
30	55	0.367611434	0.107522179	1.148187478	0.077781986	0.398508982
31	9	3.645145746	1.129736896	13.33278978	0.02276211	0.211364178
32	25	1.876894731	0.622871117	5.924199203	0.315256459	0.751398264
33	44	1.175808177	0.350978409	3.780264407	0.790872624	1
34	11	1.899264679	0.62079283	6.187935454	0.311810558	0.751398264
35	13	1.033997614	0.337215296	3.280757265	1	1
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	(Intercept)	ATB_GROUP_T1ORAL_ATB	ATB_GROUP_T1PARENTERAL_ATB	normFactor_T1
1				
2				
3				
4				
5	1.379311031	5.048919531	1.583134629	1.933513537
6	6.154375418	-4.127732268	-0.731193361	2.112802276
7	0.127451001	3.847451065	3.488611392	1.517619142
8	5.5700163	-3.765477215	-0.700915935	0.19879673
9	4.215443728	-3.338677779	-0.69536363	-1.214509221
10	4.281422802	-3.030078083	-1.254183204	-2.525897353
11	0.36995707	2.945907497	3.228797351	-1.584486382
12	1.056124573	2.850740298	1.827640208	-0.301182667
13	1.803102554	2.816199059	0.16971759	2.449522577
14	0.190516688	2.805048788	-0.148608116	0.354346398
15	3.339893826	-2.721911773	3.58928342	2.935280819
16	2.809956022	-2.708151223	-2.165479575	1.117380496
17	2.80913151	-2.648683902	-1.716657612	0.292066526
18	2.536554124	-2.535998111	-1.276766813	0.005829322
19	4.761831364	-2.524795246	-0.931474379	-2.265637947
20	2.705992438	-2.51426998	-1.181970631	-0.570190406
21	2.409480115	-2.47235039	0.049839707	-0.670467569
22	2.919075437	2.415690173	1.319212935	2.204732416
23	2.768249945	-2.388407088	-0.686889945	0.400231967
24	2.31033292	2.384448735	1.391819278	1.941723359
25	0.063174474	2.339490419	2.351860395	0.809436192
26	2.99522818	-2.3384975	-0.473677938	0.01888771
27	3.778229298	-2.327674614	0.214685952	1.127973821
28	4.282493962	-2.299859078	-1.19055417	1.792714382
29	3.738706311	-2.290946399	-1.295111954	0.76452949
30	1.160016798	2.285150897	-0.781331457	1.483787552
31	2.564268595	-2.252551478	0.815860017	1.026860111
32	4.564692196	-2.212651582	-0.249086938	2.431126488
33	0.083866235	2.145608679	1.99638849	-2.015658365
34	2.543633878	-2.140269185	-0.372537376	1.999779475
35	2.573309571	-2.104109126	-1.041647292	1.491324789
36	2.066473946	-2.093902071	-1.097258852	-0.289155245
37	2.668992276	-2.079897011	0.374985472	1.259863959
38	3.257447901	-2.060223753	-0.394075878	-1.149429208
39	2.740205891	-2.046013597	-1.163807829	0.403675107
40	2.884807214	-1.986449893	0.118555824	0.916435153
41	1.715271416	1.974583359	0.566486849	1.394495048
42	2.30019532	-1.971613679	-0.361780369	-0.576889666
43	2.158021774	-1.966285947	-0.868701062	0.829117886
44	1.01943461	1.903361673	1.18660706	0.338458583
45	1.998950922	-1.871864587	0.230129692	1.386650869
46	2.776248512	-1.864687222	-0.623283488	0.258292989
47	1.286028477	1.858814776	0.649213942	1.323306714
48	1.458039273	1.855611378	0.272881592	2.7512746
49	3.781308581	-1.834745831	-1.251335362	0.267221034
50	0.828022494	1.823550727	0.168455558	0.741903201
51	1.709010861	1.823168464	0.632322856	2.473478632
52	6.481751821	-1.799053037	-0.861113619	1.67677128
53	4.524504335	1.786741005	0.394967668	2.176949178

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2	2.168428277	-1.777353235	0.975776892	0.756422945
3	2.601109892	-1.730597448	-1.553529189	0.204818033
4	6.618676872	-1.730210291	-0.809831344	-0.63791689
5	1.217279627	1.695055442	0.215794806	2.454629601
6	2.213528641	-1.693067781	-0.219790116	0.642591999
7	0.900225436	1.681791671	1.225868282	1.456024968
8	4.132850705	-1.68069954	0.491848343	1.26169502
9	2.030261792	-1.677687686	0.373345378	1.305026938
10	2.511288809	-1.668889388	-0.709694294	-1.066430842
11	2.10972334	-1.668568699	-0.150147898	0.133722161
12	4.641492832	-1.665986286	-0.12015648	2.392663025
13	0.360120929	1.660643467	2.412526445	1.101052992
14	2.275263867	-1.658415397	-0.845202948	0.174669513
15	1.737107525	-1.658280082	0.006067899	0.853959523
16	4.93916752	-1.657483056	0.837322013	-1.180407596
17	1.959688581	-1.641412316	-0.111557338	-0.86359607
18	5.817919339	-1.641028149	-0.583267064	1.296360335
19	2.027508638	-1.610139446	-1.054626837	0.580758631
20	1.362002995	1.609555988	0.566387172	2.845302526
21	3.178622296	-1.600975976	-0.208001155	1.058508551
22	5.128021659	1.588345798	1.355361978	2.125390867
23	1.572637175	-1.58792239	0.250185883	-0.874450113
24	0.812978273	1.582352625	1.065394764	-0.672957325
25	4.43056102	1.579009532	-0.006915782	0.569623204
26	1.741504195	1.578479993	-1.050611073	1.039153742
27	2.48292363	-1.572301467	-0.701661893	1.00514432
28	3.351527329	-1.562072836	-1.255510028	1.606090158
29	1.554142521	1.551380168	1.242953726	-1.43989992
30	4.031703571	-1.539651614	-1.881574106	0.695691205
31	2.567561266	-1.526669856	-1.004347718	1.471127955
32	2.15652782	-1.523541421	0.473905835	0.685042702
33	1.380126311	1.477919802	0.366855016	1.891845571
34	2.061657349	-1.475044514	-0.575914372	1.179620136
35	3.952945299	-1.472011513	-1.08810024	1.464005017
36	2.038730255	-1.471777736	0.384547436	-0.197856744
37	1.777930758	1.470941298	1.461153478	0.412560577
38	5.259323762	-1.456960079	-1.017746598	0.893532235
39	1.85541163	-1.438916053	0.117206529	0.521933298
40	3.474113544	-1.438531705	-0.5426244	0.258874186
41	1.95273746	1.434547568	0.95711884	0.823561755
42	1.86148298	-1.434015591	0.202259022	0.780289155
43	1.577634961	1.430660437	0.179866713	2.519150926
44	3.037570998	-1.426114355	0.46363151	2.183424337
45	5.003372056	-1.420088457	-0.961649675	-0.904799069
46	3.867580299	-1.418400533	-1.347893137	1.770966817
47	3.645340279	-1.401823294	-0.459637002	-0.873539795
48	3.461474529	1.393733525	-0.558080483	1.515924612
49	3.066000437	-1.38586874	-1.255659477	1.298051788
50	1.765977416	-1.383190358	0.004573473	1.771063968
51	2.028997783	-1.380576635	0.28643063	0.022051907
52	0.955942937	1.380301443	-0.35126354	0.544410004
53	1.917876471	-1.364200261	-0.778466349	-0.730970986

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2	5.117039015	1.359751261	-0.045424863	0.967190819
3	2.057813704	-1.3580056	-0.72028474	1.156444135
4	4.765926034	1.353275789	1.168126291	0.603555872
5	0.496505787	1.352576858	2.361396821	1.438433759
6	2.298992291	-1.349774707	-1.807223127	2.238659765
7	1.937200285	-1.348169646	0.315903073	0.30762613
8	1.593147956	-1.347179935	0.134913049	1.414176345
9	2.049148154	1.342360985	0.999586549	0.410785081
10	4.151855964	-1.320580463	-0.351747427	1.949667127
11	2.481659113	-1.319901161	0.149802873	0.038220811
12	3.655298615	-1.317566511	-1.572286671	-1.020903496
13	1.539790337	-1.294882603	-0.241631172	0.010142635
14	2.171020697	-1.278396123	-0.638822669	0.189645432
15	6.628059051	-1.260078236	-2.07332272	0.132765532
16	0.377091072	1.256263227	1.414147937	-0.165659127
17	2.391746341	-1.250682892	0.548251143	0.420346232
18	2.278476979	-1.247410084	-0.894085509	1.650668515
19	1.492985627	1.246443434	0.753259262	3.451498119
20	1.755554486	-1.236238975	-0.596888843	0.939869214
21	1.712402437	-1.216081117	-0.147562896	1.112355486
22	2.312946183	-1.214264505	-0.724630624	1.52644923
23	0.626025765	1.208242575	1.058188138	0.464743018
24	2.884752941	-1.196320122	0.127766383	1.181401048
25	0.551122056	1.192230859	0.908770824	-0.984485079
26	1.602449482	1.189670473	0.350309802	0.852046814
27	1.976776187	-1.186061826	-0.57117855	-0.96142227
28	1.789164157	-1.16738715	0.210076587	-0.142987147
29	1.473497904	1.154615209	0.206990713	0.944538018
30	1.84577112	-1.15205711	-0.608633844	0.230701089
31	3.862556976	-1.141416556	0.010069796	1.632780392
32	2.154068582	-1.136276031	-0.605607447	-1.067518443
33	0.763470446	1.125995237	1.205372566	1.867794077
34	1.370497463	-1.123414285	-0.369238902	-0.790296194
35	0.979321457	1.119017818	0.501866532	0.731819642
36	1.629409431	-1.118395324	-0.847477239	1.08145223
37	1.371549757	-1.110044747	1.77778867	-0.542547051
38	2.5312109	-1.103885717	-0.257690787	0.457903366
39	1.470351905	1.093626916	0.227635235	0.149913842
40	1.167616553	1.093304496	1.561411526	-0.340088395
41	1.916181489	-1.087000073	-0.048436559	1.473483177
42	1.66818403	1.073378242	0.92288647	1.248136153
43	1.329817816	-1.069283234	0.18148153	0.002041788
44	0.510585674	1.066642861	0.193473378	1.137271756
45	1.491473222	-1.053864716	0.953165901	0.732812652
46	0.829663018	1.053721676	0.142185377	1.018751621
47	2.07932162	-1.045694905	-0.376894869	1.428044752
48	1.698306547	-1.040879003	-0.656310069	-1.146961408
49	4.345058253	1.032149165	1.226452589	2.070679896
50	2.310696004	-1.030518019	-1.1426287	0.990287536
51	2.958428345	-1.023270364	-0.697648086	-0.60544142
52	2.219667499	-1.017466163	-0.987778878	0.233985458
53	1.796780999	-1.016671649	0.515842184	1.056709828

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2	3.321861055	-1.014671787	-0.388247529	0.383772737
3	1.15393244	-1.011184829	-0.502397139	-0.703859391
4	1.808758612	-1.001950313	-0.889274181	0.405242037
5	1.67956712	-1.000610454	-0.208833125	-1.347619618
6	2.003276644	-0.989625796	-0.554972419	-1.130230049
7	1.463278796	0.987839118	0.430447551	0.772925856
8	1.91909722	-0.974500543	-0.792357017	0.175417449
9	0.88361148	0.967199288	0.778965007	-0.133089903
10	2.171791503	-0.961537128	0.091621317	-0.693457936
11	1.888257485	0.95943339	0.114005082	1.413884528
12	1.369817523	-0.958936579	-0.200422937	0.029662171
13	1.768877533	-0.95176818	-0.274291762	0.346040041
14	1.38392585	-0.935520748	-0.744901562	1.642277655
15	1.127739478	0.90937527	-0.269815227	-1.036642157
16	0.989528333	0.90491183	0.375464632	0.367746697
17	1.110953781	0.903242418	-0.193700602	0.124512281
18	1.031329031	0.892896813	0.793045362	-0.256933862
19	1.124794573	-0.884044691	0.654934546	0.371396058
20	1.266356637	-0.879253293	0.043420688	-1.223337931
21	0.532684041	0.873393415	1.582299146	-0.238536626
22	0.811962822	0.849543355	0.317401952	1.158156138
23	1.311223106	-0.803294511	0.603541224	1.237005289
24	1.229586861	0.782949778	0.081625407	0.199926531
25	0.847978858	0.777575711	0.566343786	1.572325617
26	1.889762929	-0.773545226	-0.770594117	0.375367807
27	1.406603809	-0.759325776	-0.020657976	-0.3594916
28	1.341754282	0.744228661	-0.545255698	0.367008878
29	2.544648843	-0.722848648	0.160396311	0.444360027
30	1.105960607	0.719621717	0.242993641	0.734874635
31	1.472967032	-0.703695752	-0.33234888	0.188225952
32	0.819489769	0.693567936	0.723606512	0.892288653
33	1.180433234	0.659984533	0.389388826	0.764609331
34	1.563047135	-0.657351471	0.017923916	-0.255420326
35	1.567458184	-0.613845443	0.174926667	-0.426766032
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	pvalues	adjPvalues	Kingdom	Phylum	Class
5	3.58E-13	1.85E-10	k_Bacteria	p_Bacteroidetes	c_Bacteroidia
6	2.38E-08	3.07E-06	k_Bacteria	p_Firmicutes	c_Clostridia
7	1.10E-06	8.11E-05	k_Bacteria	p_Bacteroidetes	c_Bacteroidia
8	5.33E-15	5.51E-12	k_Bacteria	p_Firmicutes	c_Bacilli
9	1.00E-08	1.68E-06	k_Bacteria	p_Firmicutes	c_Clostridia
10	2.17E-06	0.000131743	k_Bacteria	p_Bacteroidetes	c_Bacteroidia
11	1.08E-08	1.68E-06	k_Bacteria	p_Fusobacteria	c_Fusobacteriia
12	2.22E-05	0.000791323	k_Bacteria	p_Proteobacteria	c_Gammaproteobacteria
13	0.000777021	0.010170123	k_Bacteria	p_Bacteroidetes	c_Bacteroidia
14	6.06E-10	2.09E-07	k_Bacteria	p_Bacteroidetes	c_Bacteroidia
15	0.000725923	0.009623128	k_Bacteria	p_Spirochaetes	c_Spirochaetes
16	2.48E-07	2.33E-05	k_Bacteria	p_Firmicutes	c_Clostridia
17	5.09E-05	0.001548178	k_Bacteria	p_Firmicutes	c_Clostridia
18	7.23E-09	1.68E-06	k_Bacteria	p_Firmicutes	c_Clostridia
19	5.00E-05	0.001548178	k_Bacteria	p_Proteobacteria	c_Gammaproteobacteria
20	1.54E-07	1.77E-05	k_Bacteria	p_Firmicutes	c_Bacilli
21	1.01E-06	8.02E-05	k_Bacteria	p_Firmicutes	c_Clostridia
22	0.00478193	0.031900104	k_Bacteria	p_Bacteroidetes	c_Bacteroidia
23	4.67E-07	4.02E-05	k_Bacteria	p_Firmicutes	c_Clostridia
24	0.00099454	0.012098287	k_Bacteria	p_Firmicutes	c_Clostridia
25	7.21E-06	0.000354986	k_Bacteria	p_Proteobacteria	c_Gammaproteobacteria
26	1.14E-08	1.68E-06	k_Bacteria	p_Firmicutes	c_Bacilli
27	0.000227441	0.004437243	k_Bacteria	p_Firmicutes	c_Clostridia
28	0.000492293	0.007831247	k_Bacteria	p_Bacteroidetes	c_Bacteroidia
29	0.001367372	0.014882761	k_Bacteria	p_Firmicutes	c_Clostridia
30	0.000310083	0.005625014	k_Bacteria	p_Spirochaetes	c_Spirochaetes
31	0.000174512	0.003839264	k_Bacteria	p_Firmicutes	c_Clostridia
32	0.00054282	0.008134437	k_Bacteria	p_Firmicutes	c_Clostridia
33	0.000639327	0.008956498	k_Bacteria	p_Bacteroidetes	c_Bacteroidia
34	5.63E-05	0.001663372	k_Bacteria	p_Firmicutes	c_Clostridia
35	0.000184354	0.003890255	k_Bacteria	p_Firmicutes	c_Clostridia
36	7.80E-06	0.000366828	k_Bacteria	p_Firmicutes	c_Bacilli
37	5.92E-06	0.000306209	k_Bacteria	p_Firmicutes	c_Clostridia
38	0.000160446	0.003686698	k_Bacteria	p_Firmicutes	c_Clostridia
39	0.000431509	0.007196458	k_Bacteria	p_Firmicutes	c_Clostridia
40	0.003456986	0.026675546	k_Bacteria	p_Bacteroidetes	c_Bacteroidia
41	0.000109747	0.00283696	k_Bacteria	p_Firmicutes	c_Clostridia
42	2.41E-07	2.33E-05	k_Bacteria	p_Firmicutes	c_Bacilli
43	8.22E-06	0.000369498	k_Bacteria	p_Firmicutes	c_Clostridia
44	1.26E-06	8.66E-05	Unassigned	NA	NA
45	0.000615854	0.008844352	k_Bacteria	p_Proteobacteria	c_Alphaproteobacteria
46	0.000201265	0.00408055	k_Bacteria	p_Firmicutes	c_Clostridia
47	1.38E-05	0.00054847	k_Bacteria	p_Firmicutes	c_Clostridia
48	0.003971427	0.028933245	k_Bacteria	p_Firmicutes	c_Clostridia
49	0.004061186	0.029161571	k_Bacteria	p_Bacteroidetes	c_Bacteroidia
50	1.82E-05	0.000673511	k_Bacteria	p_Firmicutes	c_Clostridia
51	0.000291586	0.00538392	k_Bacteria	p_Firmicutes	c_Clostridia
52	0.000855131	0.010782999	k_Bacteria	p_Firmicutes	c_Bacilli
53	0.008804359	0.048944661	k_Bacteria	p_Bacteroidetes	c_Bacteroidia

1					
2	0.005706528	0.037110377	k__Bacteria	p__Firmicutes	c__Clostridia
3	0.000508766	0.007886895	k__Bacteria	p__Firmicutes	c__Clostridia
4	0.00179202	0.01731728	k__Bacteria	p__Firmicutes	c__Clostridia
5	0.001962645	0.018790509	k__Bacteria	p__Firmicutes	c__Clostridia
6	5.09E-05	0.001548178	k__Bacteria	p__Firmicutes	c__Clostridia
7	0.008094499	0.047555184	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
8	0.003239855	0.025572593	k__Bacteria	p__Firmicutes	c__Clostridia
9	0.002211965	0.020079899	k__Bacteria	p__Firmicutes	c__Clostridia
10					
11	1.63E-05	0.000622469	k__Bacteria	p__Firmicutes	c__Clostridia
12	0.000106437	0.002821945	Unassigned	NA	NA
13	0.000339256	0.006048114	k__Bacteria	p__Firmicutes	c__Clostridia
14	0.008309511	0.048240537	k__Bacteria	p__Firmicutes	c__Clostridia
15					
16	3.39E-05	0.001168248	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
17	0.000537333	0.008134437	k__Bacteria	p__Firmicutes	c__Clostridia
18	0.001193918	0.013274312	k__Bacteria	p__Firmicutes	c__Clostridia
19	3.83E-06	0.000208625	k__Bacteria	p__Firmicutes	c__Clostridia
20	0.000173349	0.003839264	k__Bacteria	p__Firmicutes	c__Bacilli
21	0.000129702	0.003193139	k__Bacteria	p__Firmicutes	c__Clostridia
22	0.005082447	0.0336875	k__Bacteria	p__Firmicutes	c__Clostridia
23					
24	0.000414439	0.00702508	k__Bacteria	p__Firmicutes	c__Clostridia
25	0.002356346	0.020079899	k__Bacteria	p__Firmicutes	c__Clostridia
26	1.65E-06	0.000106448	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
27	0.000802784	0.010375989	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
28	0.001050822	0.012447441	k__Bacteria	p__Firmicutes	c__Clostridia
29	0.002403834	0.020079899	k__Bacteria	p__Firmicutes	c__Clostridia
30	0.000679421	0.009366949	k__Bacteria	p__Firmicutes	c__Clostridia
31	0.002287219	0.020079899	k__Bacteria	p__Firmicutes	c__Clostridia
32	0.000707258	0.009537698	k__Bacteria	p__Firmicutes	c__Clostridia
33	0.005759271	0.037219287	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
34					
35	3.53E-05	0.001177544	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
36	9.30E-06	0.000400879	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
37	0.004618867	0.031364707	k__Bacteria	p__Firmicutes	c__Clostridia
38	0.002320492	0.020079899	k__Bacteria	p__Firmicutes	c__Clostridia
39	0.007587001	0.045876954	k__Bacteria	p__Firmicutes	c__Clostridia
40					
41	3.83E-06	0.000208625	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
42	0.000820619	0.010475559	k__Bacteria	p__Firmicutes	c__Clostridia
43	0.005827556	0.037426662	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
44	0.00059226	0.008748525	k__Bacteria	p__Firmicutes	c__Clostridia
45	0.002877003	0.023240787	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
46	0.006566627	0.041655782	k__Bacteria	p__Firmicutes	c__Bacilli
47					
48	7.04E-05	0.002020652	k__Bacteria	p__Firmicutes	c__Clostridia
49	0.002011223	0.01907894	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
50	0.006820449	0.042483999	k__Bacteria	p__Firmicutes	c__Clostridia
51	0.000178278	0.003840401	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
52	0.003706031	0.027568607	k__Bacteria	p__Firmicutes	c__Clostridia
53	0.004641006	0.031364707	k__Bacteria	p__Firmicutes	c__Clostridia
54	0.001413107	0.015220342	k__Bacteria	p__Firmicutes	c__Clostridia
55	0.001310906	0.014419969	k__Bacteria	p__Firmicutes	c__Clostridia
56	0.001743067	0.017235852	k__Bacteria	p__Firmicutes	c__Clostridia
57	0.002408034	0.020079899	k__Bacteria	p__Firmicutes	c__Clostridia
58	0.000613894	0.008844352	k__Bacteria	p__Firmicutes	c__Clostridia
59					
60	0.000133583	0.003212211	k__Bacteria	p__Firmicutes	c__Clostridia

1					
2	0.008573737	0.048240537	k__Bacteria	p__Firmicutes	c__Clostridia
3	0.004558206	0.031364707	k__Bacteria	p__Firmicutes	c__Clostridia
4	0.004281237	0.030529647	k__Bacteria	p__Proteobacteria	c__Epsilonproteobacteria
5	0.007791943	0.046571496	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
6	0.003343021	0.025990103	k__Bacteria	p__Firmicutes	c__Clostridia
7	0.000454282	0.007455998	k__Bacteria	p__Firmicutes	c__Clostridia
8	0.002400944	0.020079899	k__Bacteria	p__Firmicutes	c__Clostridia
9					
10	0.001017494	0.012233595	k__Bacteria	p__Proteobacteria	c__Epsilonproteobacteria
11	0.00858439	0.048240537	k__Bacteria	p__Firmicutes	c__Clostridia
12	0.008792913	0.048944661	k__Bacteria	p__Firmicutes	c__Clostridia
13	0.001478204	0.015596559	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
14	0.000145668	0.003423189	k__Bacteria	p__Firmicutes	c__Bacilli
15	0.000271938	0.005207114	k__Bacteria	p__Firmicutes	c__Clostridia
16	0.001697438	0.017040302	k__Bacteria	p__Firmicutes	c__Clostridia
17	0.000379854	0.006546144	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
18	0.000640987	0.008956498	k__Bacteria	p__Firmicutes	c__Clostridia
19	0.002237556	0.020079899	k__Bacteria	p__Firmicutes	c__Clostridia
20	0.002305251	0.020079899	k__Bacteria	p__Firmicutes	c__Clostridia
21	0.002773175	0.022578451	k__Bacteria	p__Firmicutes	c__Clostridia
22	0.003138996	0.024967088	k__Bacteria	p__Firmicutes	c__Clostridia
23	0.002367143	0.020079899	k__Bacteria	p__Firmicutes	c__Clostridia
24	0.000478686	0.00773377	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
25	0.000352512	0.006177919	k__Bacteria	p__Actinobacteria	c__Coriobacteriia
26	0.001061808	0.012447441	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
27	0.001628077	0.016504235	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
28					
29	7.61E-05	0.002127053	k__Bacteria	p__Firmicutes	c__Clostridia
30	0.000891072	0.011100826	k__Bacteria	p__Firmicutes	c__Clostridia
31	0.003973424	0.028933245	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
32	0.000192442	0.003979701	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
33	0.005524412	0.036383705	k__Bacteria	p__Firmicutes	c__Clostridia
34	0.000212744	0.004230333	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
35	0.001448136	0.01543683	k__Bacteria	p__Firmicutes	c__Clostridia
36	1.32E-05	0.000545143	Unassigned	NA	NA
37	0.007943799	0.047206256	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
38	0.002451196	0.020276291	k__Bacteria	p__Firmicutes	c__Clostridia
39	0.000102101	0.002778224	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
40	0.001130598	0.01284657	k__Bacteria	p__Firmicutes	c__Bacilli
41	0.007664018	0.046073226	k__Bacteria	p__Firmicutes	c__Clostridia
42	0.008505133	0.048240537	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
43	0.001520615	0.015881982	k__Bacteria	p__Firmicutes	c__Clostridia
44	0.00367869	0.027568607	k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria
45	0.001175585	0.013212558	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
46	0.001112193	0.012777858	k__Bacteria	p__Firmicutes	c__Clostridia
47	0.001627994	0.016504235	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
48	0.004015199	0.029032981	k__Bacteria	p__Firmicutes	c__Clostridia
49	0.004579229	0.031364707	k__Bacteria	p__Firmicutes	c__Clostridia
50	0.003095944	0.024815552	k__Bacteria	p__Firmicutes	c__Clostridia
51	0.007573687	0.045876954	k__Bacteria	p__Firmicutes	c__Clostridia
52	0.004685988	0.031463061	k__Bacteria	p__Firmicutes	c__Clostridia
53	0.008483021	0.048240537	k__Bacteria	p__Firmicutes	c__Clostridia
54	0.000710254	0.009537698	k__Bacteria	p__Firmicutes	c__Clostridia
55	0.008952247	0.049500661	k__Bacteria	p__Firmicutes	c__Clostridia

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2	0.008407395	0.048240537	k__Bacteria	p__Firmicutes	c__Clostridia
3	0.000125929	0.003175879	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
4	0.001071395	0.012447441	k__Bacteria	p__Firmicutes	c__Clostridia
5	0.002116625	0.019717029	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
6	0.004429213	0.031364707	k__Bacteria	p__Actinobacteria	c__Coriobacteriia
7	0.008456376	0.048240537	k__Bacteria	p__Firmicutes	c__Clostridia
8					
9	0.00679457	0.042483999	k__Bacteria	p__Firmicutes	c__Clostridia
10	0.003683954	0.027568607	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
11	0.002339766	0.020079899	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
12	0.003666814	0.027568607	k__Bacteria	p__Firmicutes	c__Clostridia
13	0.007060326	0.043714832	k__Bacteria	p__Firmicutes	c__Clostridia
14	0.000283608	0.005331821	k__Bacteria	p__Firmicutes	c__Bacilli
15	0.003314996	0.02596747	k__Bacteria	p__Firmicutes	c__Clostridia
16	0.006724965	0.042400083	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
17					
18	0.00802618	0.047423257	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
19	0.007167763	0.044115874	k__Bacteria	p__Firmicutes	c__Clostridia
20	0.005700912	0.037110377	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
21	0.000511046	0.007886895	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
22					
23	0.003692351	0.027568607	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
24	0.003925298	0.028933245	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
25	0.000978831	0.012048941	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
26	0.002747606	0.022547817	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
27	0.001597348	0.016504235	k__Bacteria	p__Firmicutes	c__Clostridia
28	0.002144466	0.019798013	k__Bacteria	p__Firmicutes	c__Clostridia
29					
30	0.00209525	0.019695347	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
31	0.008425888	0.048240537	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
32	0.007436407	0.045498487	k__Bacteria	p__Firmicutes	c__Clostridia
33	0.001773707	0.017302007	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
34	0.00461316	0.031364707	k__Bacteria	p__Firmicutes	c__Clostridia
35	0.004490551	0.031364707	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
36	0.006211506	0.039646278	k__Bacteria	p__Firmicutes	c__Clostridia
37					
38	0.001750256	0.017235852	k__Bacteria	p__Firmicutes	c__Clostridia
39	0.002332692	0.020079899	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
40	0.004469216	0.031364707	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
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Order	Family	Genus	Species
o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]	s__
o__Clostridiales	f__Lachnospiraceae	g__	s__
o__Bacteroidales	f__S24-7	g__	s__
o__Lactobacillales	f__Lactobacillaceae	g__Lactobacillus	s__
o__Clostridiales	f__Ruminococcaceae	g__	s__
o__Bacteroidales	f__[Paraprevotellaceae]	g__	s__
o__Fusobacteriales	f__Fusobacteriaceae	g__Fusobacterium	s__
o__Pasteurellales	f__Pasteurellaceae	g__Actinobacillus	s__
o__Bacteroidales	f__Bacteroidaceae	g__Bacteroides	s__barnesiaie
o__Bacteroidales	f__S24-7	g__	s__
o__Spirochaetales	f__Spirochaetaceae	g__Treponema	s__
o__Clostridiales	f__	g__	s__
o__Clostridiales	NA	NA	NA
o__Clostridiales	f__Lachnospiraceae	g__	s__
o__Aeromonadales	f__Succinivibrionaceae	g__Succinivibrio	s__
o__Lactobacillales	f__Streptococcaceae	g__Streptococcus	s__
o__Clostridiales	f__	g__	s__
o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
o__Clostridiales	f__Lachnospiraceae	NA	NA
o__Clostridiales	f__Veillonellaceae	g__Anaerovibrio	s__
o__Pasteurellales	f__Pasteurellaceae	g__Actinobacillus	s__
o__Lactobacillales	f__Lactobacillaceae	g__Lactobacillus	s__
o__Clostridiales	f__Lachnospiraceae	g__Coprococcus	s__
o__Bacteroidales	f__[Paraprevotellaceae]	g__CF231	s__
o__Clostridiales	f__	g__	s__
o__Spirochaetales	f__Spirochaetaceae	g__Treponema	s__
o__Clostridiales	f__Lachnospiraceae	g__	s__
o__Clostridiales	f__Lachnospiraceae	g__	s__
o__Bacteroidales	f__[Odoribacteraceae]	g__Butyricimonas	s__
o__Clostridiales	f__Ruminococcaceae	g__Ruminococcus	s__
o__Clostridiales	f__Ruminococcaceae	g__	s__
o__Lactobacillales	f__Streptococcaceae	g__Streptococcus	s__
o__Clostridiales	f__Lachnospiraceae	g__Coprococcus	s__
o__Clostridiales	f__Ruminococcaceae	g__	s__
o__Clostridiales	f__Lachnospiraceae	g__Coprococcus	s__
o__Bacteroidales	f__S24-7	g__	s__
o__Clostridiales	f__Ruminococcaceae	g__	s__
o__Lactobacillales	f__Lactobacillaceae	g__Lactobacillus	s__
o__Clostridiales	f__[Mogibacteriaceae]	g__Anaerovorax	s__
NA	NA	NA	NA
o__RF32	f__	g__	s__
o__Clostridiales	f__Christensenellaceae	g__	s__
o__Clostridiales	f__	g__	s__
o__Clostridiales	f__	g__	s__
o__Bacteroidales	f__[Paraprevotellaceae]	g__YRC22	s__
o__Clostridiales	f__	g__	s__
o__Clostridiales	f__Ruminococcaceae	g__	s__
o__Lactobacillales	f__Lactobacillaceae	g__Lactobacillus	s__
o__Bacteroidales	f__[Paraprevotellaceae]	g__	s__

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2	o__Clostridiales	f__Christensenellaceae	g__	s__
3	o__Clostridiales	f__Christensenellaceae	g__	s__
4	o__Clostridiales	f__Ruminococcaceae	g__	s__
5	o__Clostridiales	f__	g__	s__
6	o__Clostridiales	f__	g__	s__
7	o__Bacteroidales	f__	g__	s__
8	o__Clostridiales	f__	g__	s__
9	o__Clostridiales	f__Ruminococcaceae	g__	s__
10	o__Clostridiales	f__Lachnospiraceae	g__[Ruminococcus]	s__
11	o__Clostridiales	f__Lachnospiraceae	g__[Ruminococcus]	s__
12	NA	NA	NA	NA
13	o__Clostridiales	f__Ruminococcaceae	g__	s__
14	o__Clostridiales	f__Ruminococcaceae	g__	s__
15	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]	s__
16	o__Clostridiales	f__Lachnospiraceae	g__Coprococcus	s__
17	o__Clostridiales	f__Ruminococcaceae	g__	s__
18	o__Clostridiales	f__	g__	s__
19	o__Clostridiales	f__Lactobacillaceae	g__Lactobacillus	s__
20	o__Lactobacillales	f__Lactobacillaceae	g__Lactobacillus	s__
21	o__Clostridiales	f__	g__	s__
22	o__Clostridiales	f__	g__	s__
23	o__Clostridiales	f__Lachnospiraceae	g__Coprococcus	s__
24	o__Clostridiales	f__Ruminococcaceae	g__	s__
25	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
26	o__Pasteurellales	f__Pasteurellaceae	g__Aggregatibacter	NA
27	o__Clostridiales	f__Veillonellaceae	g__Anaerovibrio	s__
28	o__Clostridiales	f__Veillonellaceae	g__Mitsuokella	s__multacida
29	o__Clostridiales	f__Veillonellaceae	g__Mitsuokella	s__multacida
30	o__Clostridiales	NA	NA	NA
31	o__Clostridiales	NA	NA	NA
32	o__Clostridiales	f__Ruminococcaceae	g__	s__
33	o__Clostridiales	f__Ruminococcaceae	g__	s__
34	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
35	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
36	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
37	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
38	o__Clostridiales	f__Lachnospiraceae	g__	s__
39	o__Clostridiales	f__Lachnospiraceae	g__Coprococcus	s__
40	o__Clostridiales	f__	g__	s__
41	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]	s__
42	o__Clostridiales	f__	g__	s__
43	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
44	o__Clostridiales	f__	g__	s__
45	o__Clostridiales	f__	g__	s__
46	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]	s__
47	o__Turicibacterales	f__Turicibacteraceae	g__Turicibacter	s__
48	o__Clostridiales	f__	g__	s__
49	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
50	o__Clostridiales	f__Lachnospiraceae	g__	s__
51	o__Bacteroidales	f__S24-7	g__	s__
52	o__Clostridiales	f__Ruminococcaceae	g__	s__
53	o__Clostridiales	f__Ruminococcaceae	g__	s__
54	o__Clostridiales	f__Lachnospiraceae	g__	s__
55	o__Clostridiales	f__Ruminococcaceae	g__	s__
56	o__Clostridiales	f__	g__	s__
57	o__Clostridiales	f__Ruminococcaceae	g__	s__
58	o__Clostridiales	f__Lachnospiraceae	g__	s__
59	o__Clostridiales	f__Lachnospiraceae	g__	s__
60	o__Clostridiales	f__Lachnospiraceae	g__[Ruminococcus]	s__

1				
2	o__Clostridiales	f__Veillonellaceae	g__Anaerovibrio	s__
3	o__Clostridiales	f__Lachnospiraceae	g__Coprococcus	s__
4	o__Campylobacterales	f__Campylobacteraceae	g__Campylobacter	s__
5	o__Bacteroidales	f__Porphyromonadaceae	g__Paludibacter	s__
6	o__Clostridiales	f__Ruminococcaceae	g__	s__
7	o__Clostridiales	f__Lachnospiraceae	g__Dorea	s__
8	o__Clostridiales	f__Ruminococcaceae	g__Ruminococcus	s__
9	o__Campylobacterales	f__Campylobacteraceae	g__Campylobacter	s__
10	o__Clostridiales	f__Clostridiaceae	g__	s__
11	o__Clostridiales	f__	g__	s__
12	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
13	o__Lactobacillales	f__Lactobacillaceae	g__Lactobacillus	s__
14	o__Clostridiales	f__Lachnospiraceae	g__	s__
15	o__Clostridiales	f__Lachnospiraceae	g__	s__
16	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]	s__
17	o__Clostridiales	f__Clostridiaceae	NA	NA
18	o__Clostridiales	f__Lachnospiraceae	g__Butyrivibrio	s__
19	o__Clostridiales	f__	g__	s__
20	o__Clostridiales	f__Lachnospiraceae	g__	s__
21	o__Clostridiales	f__Ruminococcaceae	g__	s__
22	o__Clostridiales	f__	g__	s__
23	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]	s__
24	o__Coriobacteriales	f__Coriobacteriaceae	g__	s__
25	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]	s__
26	o__Bacteroidales	f__S24-7	g__	s__
27	o__Clostridiales	f__[Mogibacteriaceae]	g__	s__
28	o__Clostridiales	f__Lachnospiraceae	g__Coprococcus	s__
29	o__Aeromonadales	f__Succinivibrionaceae	g__Ruminobacter	s__
30	o__Aeromonadales	f__Succinivibrionaceae	g__Succinivibrio	s__
31	o__Clostridiales	f__Ruminococcaceae	g__	s__
32	o__Bacteroidales	f__S24-7	g__	s__
33	o__Clostridiales	f__	g__	s__
34	NA	NA	NA	NA
35	o__Bacteroidales	f__Rikenellaceae	NA	NA
36	o__Clostridiales	f__Ruminococcaceae	g__	s__
37	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]	s__
38	o__Lactobacillales	f__Lactobacillaceae	g__Lactobacillus	s__
39	o__Clostridiales	f__Ruminococcaceae	g__Oscillospira	s__
40	o__Pasteurellales	f__Pasteurellaceae	g__Actinobacillus	s__
41	o__Clostridiales	f__	g__	s__
42	o__Desulfovibrionales	f__Desulfovibrionaceae	g__	s__
43	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
44	o__Clostridiales	f__Lachnospiraceae	g__	s__
45	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]	s__
46	o__Clostridiales	f__Ruminococcaceae	g__Ruminococcus	s__flavefaciens
47	o__Clostridiales	f__Ruminococcaceae	g__	s__
48	o__Clostridiales	f__Ruminococcaceae	g__	s__
49	o__Clostridiales	f__Clostridiaceae	g__	s__
50	o__Clostridiales	f__Ruminococcaceae	g__Ruminococcus	s__
51	o__Clostridiales	f__Lachnospiraceae	g__Blautia	s__
52	o__Clostridiales	f__	g__	s__
53	o__Clostridiales	f__Lachnospiraceae	g__	s__
54	o__Clostridiales	f__	g__	s__
55	o__Clostridiales	f__Lachnospiraceae	g__	s__
56	o__Clostridiales	f__	g__	s__
57	o__Clostridiales	f__Lachnospiraceae	g__	s__
58	o__Clostridiales	f__	g__	s__
59	o__Clostridiales	f__Lachnospiraceae	g__	s__
60	o__Clostridiales	f__Lachnospiraceae	g__	s__

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2	o__Clostridiales	f__Ruminococcaceae	g__Ruminococcus	s__
3	o__Aeromonadales	f__Succinivibrionaceae	g__Succinivibrio	s__
4	o__Clostridiales	f__Lachnospiraceae	g__Lachnospira	s__
5	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
6	o__Coriobacteriales	f__Coriobacteriaceae	g__	s__
7	o__Clostridiales	f__Ruminococcaceae	g__	s__
8	o__Clostridiales	f__Lachnospiraceae	g__	s__
9	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]	s__
10	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
11	o__Clostridiales	f__Lachnospiraceae	g__Lachnospira	s__
12	o__Clostridiales	f__	g__	s__
13	o__Lactobacillales	f__Lactobacillaceae	g__Lactobacillus	s__
14	o__Clostridiales	f__Clostridiaceae	g__Clostridium	s__
15	o__Enterobacteriales	f__Enterobacteriaceae	g__	s__
16	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]	s__
17	o__Clostridiales	f__Lachnospiraceae	g__	s__
18	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
19	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]	s__
20	o__Bacteroidales	f__S24-7	g__	s__
21	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
22	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
23	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
24	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
25	o__Clostridiales	f__Veillonellaceae	g__Anaerovibrio	s__
26	o__Clostridiales	f__Ruminococcaceae	g__Oscillospira	s__
27	o__Bacteroidales	f__[Paraprevotellaceae]	g__CF231	s__
28	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
29	o__Clostridiales	f__Lachnospiraceae	g__Roseburia	s__faecis
30	o__Bacteroidales	f__	g__	s__
31	o__Clostridiales	f__Lachnospiraceae	g__	s__
32	o__Bacteroidales	f__	g__	s__
33	o__Clostridiales	f__[Mogibacteriaceae]	g__	s__
34	o__Clostridiales	f__Clostridiaceae	g__	s__
35	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
36	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
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Table S8: Differentially abundant (DA) OTUs when comparing P (parenteral administrated) vs. C (control)

OTU	+samples in group 0	+samples in group 1	counts in group 0
New.ReferenceOTU105	2	8	2
New.ReferenceOTU11247	6	7	13
329729	5	7	53
309745	3	8	6
587041	8	5	16
New.ReferenceOTU6399	14	16	876
New.ReferenceOTU10898	6	7	27
355246	1	9	1
16915	22	21	3663
354599	6	9	54
New.ReferenceOTU1852	12	4	355
589852	24	20	2733
47477	12	2	170
74192	4	9	15
1092802	21	19	815
10945	10	18	40
New.ReferenceOTU3520	8	3	46
571178	24	19	1226
697548	7	3	108
New.ReferenceOTU5058	7	3	14
New.ReferenceOTU214	2	8	9
New.CleanUp.ReferenceOTU63327	8	5	34
New.ReferenceOTU101	15	2	111
461487	20	11	392
New.ReferenceOTU7356	7	9	90
708680	24	22	3083
578207	9	15	26
70580	4	6	8
301280	20	20	522
New.ReferenceOTU9063	11	6	25
292585	3	9	10
4003061	5	7	8
172163	16	20	63
New.ReferenceOTU1693	7	6	28
846386	9	1	29
340761	9	5	35
24271	11	8	25
355187	8	6	96
109413	2	11	4
New.ReferenceOTU6787	3	8	10
343709	20	17	618
New.ReferenceOTU6457	9	12	20
683621	24	22	848
354461	15	10	107
359779	5	7	11
530928	12	8	81
181170	8	7	25
304154	15	9	88
552031	24	20	327

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2	New.ReferenceOTU1797	6	12	9
3		192079	15	112
4		359175	11	34
5	New.ReferenceOTU6315	4	8	6
6		837859	14	75
7		343831	5	6
8		555945	12	29
9		4453773	24	3882
10			23	
11	New.ReferenceOTU3994	15	6	47
12		976470	14	71
13		524842	21	123
14		799443	16	188
15			19	
16	New.ReferenceOTU2527	6	11	19
17		524117	10	42
18	New.ReferenceOTU3290	10	9	32
19	New.ReferenceOTU7944	13	12	19
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For Peer Review

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tro) group at T1. DA OTUs were used to be plotted in the Venn diagram (Figure 2).

counts in group 1	oddsRatio	lower	upper	fisherP	fisherAdjP
177	0.176929317	0.016138635	1.058331175	0.036329609	0.653545177
139	0.766343406	0.172086849	3.309384572	0.751642428	1
423	0.608092297	0.125494496	2.734673192	0.517082499	0.968816654
281	0.275581692	0.040330739	1.393901187	0.093307729	0.808402104
234	1.777545338	0.411222286	8.437402558	0.517082499	0.968816654
1417	0.618974991	0.153498955	2.380042422	0.546872865	0.968816654
95	0.766343406	0.172086849	3.309384572	0.751642428	1
196	0.071328723	0.0014861	0.607943229	0.004387329	0.381143624
8395	1.046600942	0.069913154	15.66846384	1	1
343	0.525904409	0.121721947	2.123851925	0.358723189	0.957859536
62	4.586716621	1.06908726	24.25510343	0.030476525	0.653545177
594	Inf	0.443793995	Inf	0.109219858	0.808402104
9	9.964769554	1.777219246	106.5427137	0.003351363	0.338586855
130	0.319131289	0.059392258	1.428737661	0.11071771	0.808402104
1689	1.461565972	0.216203225	11.29245932	0.700775998	1
311	0.206022129	0.043942221	0.829248671	0.017127613	0.55534011
5	3.249484968	0.643365718	22.14722319	0.168091512	0.825217056
232	Inf	0.730879938	Inf	0.04964539	0.74693746
6	2.687356051	0.512613755	18.62434354	0.286465842	0.923573316
48	2.687356051	0.512613755	18.62434354	0.286465842	0.923573316
71	0.176929317	0.016138635	1.058331175	0.036329609	0.653545177
63	1.777545338	0.411222286	8.437402558	0.517082499	0.968816654
6	16.28977988	2.902900879	175.8174816	0.000178525	0.176316868
53	5.245647661	1.215391561	27.95219413	0.014547319	0.55534011
62	0.646681408	0.158573466	2.537298945	0.546872865	0.968816654
1200	Inf	0.026755507	Inf	0.489361702	0.968816654
213	0.328287667	0.082021298	1.219243561	0.081980221	0.790353009
54	0.573587769	0.101174248	2.892168927	0.49362092	0.968816654
930	0.754589632	0.097705886	5.101675536	1	1
51	2.352340926	0.602886659	10.01131017	0.227018416	0.825217056
45	0.229619263	0.03395974	1.13203881	0.048991413	0.74693746
57	0.608092297	0.125494496	2.734673192	0.517082499	0.968816654
294	0.307741076	0.045152387	1.554325901	0.168091512	0.825217056
8	1.162845698	0.269127546	5.168521911	1	1
1	12.5635421	1.477591867	602.1592884	0.010195016	0.482078619
6	2.124640519	0.505462503	9.957889246	0.341162553	0.957859536
58	1.570890912	0.421974081	6.066989903	0.555643067	0.968816654
36	1.40618027	0.338741792	6.131248274	0.751642428	1
49	0.104437924	0.009711672	0.592675367	0.003351363	0.338586855
40	0.275581692	0.040330739	1.393901187	0.093307729	0.808402104
181	1.74341235	0.34576127	9.883938023	0.49362092	0.968816654
84	0.557139615	0.14669039	2.037343837	0.385159207	0.957859536
1300	Inf	0.026755507	Inf	0.489361702	0.968816654
22	2.130432239	0.5828813	8.175767554	0.24764822	0.825217056
48	0.608092297	0.125494496	2.734673192	0.517082499	0.968816654
20	1.849762438	0.500857814	7.154097728	0.380129044	0.957859536
8	1.139613338	0.282242508	4.691658073	1	1
15	2.538665173	0.691120452	9.907292308	0.148247421	0.825217056
597	Inf	0.443793995	Inf	0.109219858	0.808402104

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2	67	0.313743416	0.073020834	1.220526699	0.0753455	0.790353009
3	30	1.79488224	0.490835166	6.817079136	0.385159207	0.957859536
4	8	2.352340926	0.602886659	10.01131017	0.227018416	0.825217056
5	27	0.383018667	0.070473901	1.761033897	0.19301944	0.825217056
6	12	6.359266314	1.485698822	33.9295596	0.0064839	0.402407033
7	25	0.50097006	0.105248253	2.167308373	0.341162553	0.957859536
8	82	0.540609961	0.139780031	1.99657462	0.380129044	0.957859536
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10	6241	0	0 Inf		1	1
11	8	4.55457218	1.171321651	19.95219477	0.018930278	0.569629282
12	21	2.141124325	0.586990545	8.206974162	0.24764822	0.825217056
13	232	1.048932019	0.125256502	8.785856462	1	1
14	247	0.428884448	0.079113665	1.969568866	0.317659078	0.957859536
15						
16	16	0.371830621	0.086779682	1.455566119	0.135095437	0.825217056
17	21	0.783387342	0.211335186	2.861135256	0.772481821	1
18	14	1.108621505	0.297261851	4.176336057	1	1
19	33	1.081488713	0.296843139	3.956930028	1	1
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	(Intercept)	ATB_GROUP_T1_PARENTERALvsCONTROLPARENTERAL_ATB
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5	0.345784901	3.607326862
6	0.925739559	2.739779319
7	1.283031477	2.602736509
8	0.532086491	2.423863473
9	0.926105176	2.331146996
10	3.491695335	2.256247319
11	1.560273752	2.222339443
12	-0.022979373	2.166650172
13	5.703971632	2.164018614
14	1.667825148	2.076049239
15	4.014613862	-2.048517723
16	6.646745873	-2.047601561
17	2.838597616	-2.036148282
18	1.188564277	1.944262067
19	4.396301414	1.942831652
20	1.655511101	1.88837961
21	2.453073214	-1.869633922
22	5.027757476	-1.81999281
23	2.9597447	-1.802610759
24	1.240378194	1.78082404
25	0.828439055	1.75034796
26	1.727541206	1.719906951
27	2.225412518	-1.649095979
28	3.453420736	-1.639437876
29	3.440732128	-1.631326536
30	6.474196232	-1.613127915
31	1.323982057	1.605910335
32	1.601409814	1.59666691
33	3.753300026	1.571078555
34	1.469528671	1.491588432
35	0.551154914	1.450368125
36	0.639505194	1.440010024
37	1.8576964	1.436803105
38	2.232501065	-1.431301531
39	1.64225485	-1.408656566
40	2.066693117	-1.39736973
41	1.282113864	1.383035166
42	3.146811384	-1.371149796
43	0.61410605	1.321311025
44	0.769705452	1.320257891
45	4.074895621	-1.298918062
46	1.067724587	1.266041409
47	4.652428667	1.240823908
48	2.473148259	-1.217468503
49	1.535432479	1.213378236
50	2.447839374	-1.18783513
51	1.952609791	-1.17977099
52	2.259881938	-1.176509991
53	3.396580703	1.167641885
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2	0.716874403	1.154176859
3	2.531251368	-1.146331297
4	1.888123411	-1.134726565
5	0.706912955	1.106256124
6	2.043044803	-1.09322274
7	0.721769767	1.071720791
8	1.273882781	1.067577098
9	6.951263274	1.054074375
10	1.715582933	-1.003600008
11	2.213750477	-0.950877623
12	2.391921004	0.949774943
13	2.737599589	0.94353378
14	1.993948709	-0.854026718
15	2.193082216	-0.840125507
16	1.853049729	-0.825017166
17	0.987875616	0.697710505
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normFactor_T1_PARENTERALvsCONTROL	pvalues	adjPvalues	Kingdom	Phylum
1.592605345	3.72E-08	1.85E-05	k__Bacteria	p__Bacteroidetes
1.290543894	2.40E-07	7.96E-05	k__Bacteria	p__Bacteroidetes
-0.890356207	0.000425546	0.01408556	k__Bacteria	p__Firmicutes
1.093010763	0.000255609	0.010669834	k__Bacteria	p__Firmicutes
-1.024625701	9.05E-05	0.005994249	k__Bacteria	p__Firmicutes
2.818721632	0.001294083	0.028772749	k__Bacteria	p__Bacteroidetes
1.313158832	5.34E-05	0.004616973	k__Bacteria	p__Bacteroidetes
-1.510536075	0.000172271	0.009003426	k__Bacteria	p__Bacteroidetes
2.985989271	0.001335819	0.028772749	k__Bacteria	p__Bacteroidetes
2.357823126	0.001568338	0.031147192	k__Bacteria	p__Spirochaetes
1.620520642	0.001166372	0.02806066	k__Bacteria	p__Bacteroidetes
0.249438644	6.30E-09	6.26E-06	k__Bacteria	p__Firmicutes
1.388772887	0.000188968	0.009382275	k__Bacteria	p__Firmicutes
0.436438747	0.000143426	0.008094895	k__Bacteria	p__Proteobacteria
1.946239383	1.81E-05	0.002240464	k__Bacteria	p__Bacteroidetes
-1.024957119	7.83E-06	0.001563618	k__Bacteria	p__Proteobacteria
0.285868501	1.33E-05	0.001893584	k__Bacteria	p__Bacteroidetes
1.670184692	1.29E-05	0.001893584	k__Bacteria	p__Firmicutes
2.737937526	7.87E-06	0.001563618	k__Bacteria	p__Firmicutes
-0.641100888	0.001912697	0.035601064	k__Bacteria	p__Bacteroidetes
1.150601202	0.000299391	0.011010923	k__Bacteria	p__Proteobacteria
2.273532624	7.47E-05	0.005704446	k__Bacteria	p__Bacteroidetes
0.559372598	0.000779047	0.022102681	k__Bacteria	p__Firmicutes
1.661445982	0.000268626	0.010669834	k__Bacteria	p__Firmicutes
-1.440158754	0.000239922	0.010669834	k__Bacteria	p__Bacteroidetes
-0.216164177	0.001186856	0.02806066	k__Bacteria	p__Firmicutes
-0.47995605	0.000571332	0.017191899	k__Bacteria	p__Bacteroidetes
1.438313421	0.000281401	0.010747372	k__Bacteria	p__Proteobacteria
1.046530687	0.001300829	0.028772749	k__Bacteria	p__Firmicutes
-0.235401178	0.000146735	0.008094895	k__Bacteria	p__Firmicutes
1.386856019	0.000325628	0.011548178	k__Bacteria	p__Firmicutes
0.191833038	0.001322386	0.028772749	k__Bacteria	p__Bacteroidetes
0.390451824	0.000518079	0.016076648	k__Bacteria	p__Firmicutes
0.032271391	2.70E-05	0.002677034	k__Bacteria	p__Bacteroidetes
0.257388754	9.05E-05	0.005994249	k__Bacteria	p__Firmicutes
0.344159274	2.38E-05	0.002621147	k__Bacteria	p__Firmicutes
0.990359836	0.000348512	0.011933537	k__Bacteria	p__Firmicutes
1.201744441	0.002501543	0.041400531	k__Bacteria	p__Firmicutes
0.832973002	0.00047655	0.015264963	k__Bacteria	p__Proteobacteria
-0.329181055	0.002005448	0.035601064	k__Bacteria	p__Proteobacteria
2.306620034	0.001932599	0.035601064	k__Bacteria	p__Firmicutes
0.536500421	0.001621301	0.031567693	Unassigned	NA
2.311424819	0.000262394	0.010669834	k__Bacteria	p__Firmicutes
0.152313739	0.001361852	0.028772749	k__Bacteria	p__Firmicutes
0.901161156	0.001531775	0.031041888	k__Bacteria	p__Proteobacteria
0.787457974	0.001083743	0.02806066	k__Bacteria	p__Firmicutes
0.161253872	5.58E-05	0.004616973	k__Bacteria	p__Firmicutes
1.197385161	0.000250963	0.010669834	k__Bacteria	p__Firmicutes
0.168827178	0.002212277	0.0385402	k__Bacteria	p__Bacteroidetes

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2	-0.016245104	0.001415175	0.029276432	k__Bacteria	p__Bacteroidetes
3	0.615464952	0.001966247	0.035601064	k__Bacteria	p__Firmicutes
4	0.034442742	0.000110854	0.006879868	k__Bacteria	p__Firmicutes
5	0.81755941	0.001128628	0.02806066	k__Bacteria	p__Bacteroidetes
6	1.230461299	0.002680708	0.04293457	k__Bacteria	p__Firmicutes
7	0.499917543	0.00068668	0.020055089	k__Bacteria	p__Firmicutes
8	0.631876549	0.001142206	0.02806066	k__Bacteria	p__Firmicutes
9	0.25100937	0.001155129	0.02806066	k__Bacteria	p__Proteobacteria
10	0.05210116	0.000875772	0.024156711	k__Bacteria	p__Firmicutes
11	0.405821139	0.003000779	0.045842663	k__Bacteria	p__Firmicutes
12	1.333283176	0.002586326	0.042101999	k__Bacteria	p__Firmicutes
13	2.933606141	0.003000623	0.045842663	k__Bacteria	p__Firmicutes
14	0.194655793	0.002324506	0.039797149	k__Bacteria	p__Bacteroidetes
15	0.658529444	0.002007714	0.035601064	k__Bacteria	p__Proteobacteria
16	-0.287569115	0.002462535	0.041400531	k__Bacteria	p__Bacteroidetes
17	0.755508233	0.002950025	0.045842663	k__Bacteria	p__Firmicutes
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Class	Order	Family	Genus
c__Bacteroidia	o__Bacteroidales	f__S24-7	g__
c__Bacteroidia	o__Bacteroidales	f__Porphyromonadaceae	g__Paludibacter
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
c__Clostridia	o__Clostridiales	f__	g__
c__Bacteroidia	o__Bacteroidales	f__Porphyromonadaceae	g__Paludibacter
c__Bacteroidia	o__Bacteroidales	f__Bacteroidaceae	g__Bacteroides
c__Bacteroidia	o__Bacteroidales	f__[Odoribacteraceae]	g__Butyricimonas
c__Bacteroidia	o__Bacteroidales	f__p-2534-18B5	g__
c__Spirochaetes	o__Spirochaetales	f__Spirochaetaceae	g__Treponema
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
c__Clostridia	o__Clostridiales	f__	g__
c__Gammaproteobacteria	o__Pasteurellales	f__Pasteurellaceae	g__Actinobacillus
c__Bacteroidia	o__Bacteroidales	f__	g__
c__Epsilonproteobacteria	o__Campylobacterales	f__Helicobacteraceae	NA
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__Roseburia
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
c__Bacteroidia	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]
c__Deltaproteobacteria	o__Desulfovibrionales	f__Desulfovibrionaceae	g__Desulfovibrio
c__Bacteroidia	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]
c__Clostridia	o__Clostridiales	f__	g__
c__Clostridia	o__Clostridiales	f__	g__
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
c__Bacteroidia	o__Bacteroidales	f__	g__
c__Gammaproteobacteria	o__Pasteurellales	f__Pasteurellaceae	g__Actinobacillus
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Oscillospira
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
c__Bacteroidia	o__Bacteroidales	f__Porphyromonadaceae	g__Parabacteroides
c__Clostridia	o__Clostridiales	f__	g__
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__Anaerostipes
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__Roseburia
c__Bacilli	o__Lactobacillales	f__Lactobacillaceae	g__Lactobacillus
c__Clostridia	o__Clostridiales	f__	g__
c__Gammaproteobacteria	o__Pasteurellales	f__Pasteurellaceae	g__Actinobacillus
c__Gammaproteobacteria	o__Pasteurellales	f__Pasteurellaceae	g__Aggregatibacter
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
NA	NA	NA	NA
c__Clostridia	o__Clostridiales	f__Clostridiaceae	g__
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
c__Gammaproteobacteria	o__Pasteurellales	f__Pasteurellaceae	g__Actinobacillus
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Ruminococcus
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__Coprococcus
c__Bacteroidia	o__Bacteroidales	f__	g__

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2	c__Bacteroidia	o__Bacteroidales	f__p-2534-18B5	g__
3	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Ruminococcus
4	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
5	c__Bacteroidia	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]
6	c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
7	c__Clostridia	o__Clostridiales	f__	g__
8	c__Clostridia	o__Clostridiales	f__Clostridiaceae	NA
9	c__Clostridia	o__Clostridiales	f__Clostridiaceae	NA
10	c__Deltaproteobacteria	o__Desulfovibrionales	f__Desulfovibrionaceae	g__Desulfovibrio
11	c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
12	c__Clostridia	o__Clostridiales	f__	g__
13	c__Clostridia	o__Clostridiales	f__Clostridiaceae	g__
14	c__Clostridia	o__Clostridiales	f__	g__
15	c__Bacteroidia	o__Bacteroidales	f__[Paraprevotellaceae]	g__CF231
16	c__Gammaproteobacteria	o__Aeromonadales	f__Succinivibrionaceae	g__Succinivibrio
17	c__Bacteroidia	o__Bacteroidales	NA	NA
18	c__Clostridia	o__Clostridiales	f__[Mogibacteriaceae]	g__
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Table S9: Differentially abundant (DA) OTUs when comparing O (oral administrated) vs. C (control) gr

OTU	+samples i	+samples i	counts in g	counts in g	oddsRatio	lower	upper	fisherP
New.Cleanl	8	6	34	604	1.487319	0.360654	6.451776	0.751642
581474	24	18	1790	62	Inf	1.341634	Inf	0.021936
46910	22	8	662	23	20.29111	3.600336	220.3123	5.78E-05
355697	20	11	6160	802	5.675899	1.334856	29.9945	0.014547
179806	18	7	744	49	6.941037	1.745148	31.92416	0.00341
New.Referε	8	16	228	2737	0.257937	0.063246	0.960337	0.04222
4306043	2	12	2	133	0.095831	0.008983	0.535136	0.003351
1038455	5	6	78	304	0.793376	0.160401	3.753784	1
New.Cleanl	14	13	1063	1459	1.180432	0.326813	4.310371	1
532232	16	2	188	2	20.29111	3.600336	220.3123	5.78E-05
74192	4	12	15	644	0.207259	0.039364	0.884304	0.030477
579431	16	6	1246	44	5.751095	1.472824	25.61645	0.008415
551902	15	7	472	39	3.921658	1.045921	16.1966	0.041464
553352	24	8	274	8	Inf	8.448061	Inf	6.52E-07
516159	21	20	1486	312	1.390237	0.206317	10.70676	1
47477	12	0	170	0	Inf	4.399428	Inf	7.76E-05
531052	16	7	492	37	4.683334	1.233829	19.79127	0.019855
354461	15	0	107	0	Inf	7.161824	Inf	2.39E-06
509416	21	1	180	5	128.4683	13.48113	6536.898	3.57E-09
198552	15	1	309	2	35.17597	4.29923	1663.993	2.85E-05
New.Referε	16	1	297	49	41.78668	5.069724	1984.077	8.48E-06
533277	13	0	109	0	Inf	5.18035	Inf	2.59E-05
New.Referε	11	0	85	0	Inf	3.721491	Inf	0.000221
276561	3	16	12	192	0.076418	0.011206	0.363969	0.000275
549756	20	3	112	4	31.06202	5.767489	247.9902	1.43E-06
350666	10	16	38	191	0.36523	0.09348	1.334012	0.146807
New.Referε	14	15	876	1301	0.843063	0.225628	3.110346	1
335846	7	10	155	325	0.583174	0.145547	2.224312	0.546873
355246	1	18	1	473	0.016412	0.000341	0.1393	5.67E-07
New.Referε	18	1	149	1	60.92948	7.17875	2932.885	5.67E-07
753891	17	8	930	217	4.683334	1.233829	19.79127	0.019855
470382	19	3	171	6	24.04268	4.695419	179.5601	6.50E-06
527413	6	13	19	141	0.290025	0.068133	1.110693	0.075346
New.Referε	6	16	253	1084	0.17388	0.039037	0.678968	0.008415
819181	22	24	1593	3343	0	0	5.288108	0.489362
347085	8	3	218	4	3.409821	0.67807	23.16955	0.168092
515953	24	20	3348	1740	Inf	0.697395	Inf	0.10922
New.Referε	9	1	119	3	13.1314	1.549251	628.2567	0.010195
352943	6	6	26	407	1	0.219955	4.546383	1
346606	14	2	244	20	14.43526	2.594	154.5212	0.000509
23625	21	22	1256	1697	0.64234	0.049042	6.204237	1
279534	16	18	80	490	0.672351	0.154996	2.772739	0.751642
355175	6	10	90	201	0.474248	0.111647	1.86233	0.358723
New.Referε	16	18	122	470	0.672351	0.154996	2.772739	0.751642
588197	24	24	2080	538	0	0	Inf	1
361727	8	2	53	4	5.312557	0.893052	57.8825	0.072265
812596	22	24	2010	4533	0	0	5.288108	0.489362
364736	14	3	97	5	9.285636	1.97897	62.04651	0.002049
327017	11	2	87	4	8.873846	1.577097	94.77454	0.007841

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2	337057	13	4	162	18	5.675899	1.334856	29.9945	0.014547
3	172163	16	19	63	330	0.533433	0.112884	2.292648	0.517082
4	703741	24	24	4696	898	0	0	Inf	1
5	366716	13	2	49	5	12.26312	2.204205	131.0401	0.001349
6	315271	16	8	488	75	3.876922	1.041302	15.81124	0.04222
7	New.Refer	10	10	50	306	1	0.27312	3.661395	1
8	309745	3	8	6	150	0.293271	0.04316	1.474774	0.168092
10	584083	21	15	868	161	4.075037	0.832282	27.35791	0.093308
11	584263	16	4	114	26	9.440104	2.182404	51.65597	0.001022
12	875643	17	10	872	72	3.309326	0.888283	13.44651	0.07977
13	348227	9	4	198	12	2.931147	0.659506	15.63363	0.193019
14	369429	19	6	171	15	10.69195	2.51492	55.30041	0.0004
15	804526	20	15	418	46	2.931147	0.659506	15.63363	0.193019
17	New.Refer	6	7	13	104	0.813101	0.183885	3.490841	1
18	366986	15	4	145	18	7.916665	1.850235	42.59655	0.002683
19	519882	12	1	95	2	21.56702	2.635553	1018.582	0.000699
20	New.Refer	9	19	20	173	0.164905	0.034857	0.663465	0.007664
21	New.Refer	5	6	34	59	0.793376	0.160401	3.753784	1
22	337379	24	17	929	174	Inf	1.717273	Inf	0.009401
24	New.Refer	8	7	27	8	1.209375	0.301808	4.948866	1
25	100852	10	8	40	83	1.417926	0.379311	5.453547	0.766128
26	366584	24	22	1264	408	Inf	0.189104	Inf	0.489362
27	532771	19	10	427	38	5.120941	1.28026	23.89398	0.017128
28	510286	8	9	21	92	0.836511	0.215793	3.191516	1
29	New.Refer	14	2	91	6	14.43526	2.594	154.5212	0.000509
30	578207	9	16	26	117	0.308098	0.07747	1.132945	0.08198
32	New.Clean	6	4	22	6	1.649012	0.328596	9.302675	0.723793
33	759751	18	13	322	100	2.48842	0.64241	10.5286	0.227018
34	72926	22	24	727	2474	0	0	5.288108	0.489362
35	New.Refer	23	24	867	349	0	0	39.00055	1
36	370361	12	5	86	8	3.690425	0.920769	17.01014	0.068707
38	New.Refer	13	12	43	126	1.177703	0.329409	4.25319	1
39	28056	6	10	40	121	0.474248	0.111647	1.86233	0.358723
40	843459	16	9	100	22	3.245723	0.882655	12.90821	0.08198
41	870421	20	20	1188	223	1	0.161763	6.181898	1
42	524117	10	5	42	8	2.657196	0.648797	12.30244	0.212385
43	355187	8	8	96	43	1	0.254579	3.928055	1
44	New.Refer	6	6	42	16	1	0.219955	4.546383	1
45	366623	12	4	47	8	4.824984	1.130833	25.40375	0.030477
47	New.Refer	8	8	33	87	1	0.254579	3.928055	1
48	New.Refer	12	10	29	78	1.39015	0.387925	5.086769	0.772482
49	536754	15	2	46	2	17.05854	3.052482	183.632	0.000179
50	New.Refer	5	9	18	43	0.446283	0.095645	1.864652	0.341163
51	589852	24	22	2733	1752	Inf	0.189104	Inf	0.489362
52	577406	17	3	73	7	15.74652	3.255512	109.7607	8.83E-05
53	249776	7	9	67	81	0.691711	0.17125	2.692358	0.760109
55	290804	21	15	212	53	4.075037	0.832282	27.35791	0.093308
56	New.Refer	16	16	68	147	1	0.254579	3.928055	1
57	New.Refer	10	1	65	1	15.56355	1.866883	739.9977	0.004387
58	New.Refer	17	21	106	278	0.35463	0.051324	1.851283	0.286466
59	337784	15	6	55	13	4.818248	1.248512	21.00305	0.01893
60	531436	14	5	76	13	5.120941	1.28026	23.89398	0.017128

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2	New.Cleant	9	10	22	53	0.843063	0.225628	3.110346	1
3	New.Referε	7	14	90	101	0.302176	0.074369	1.125768	0.07977
4	New.Referε	15	17	65	139	0.691711	0.17125	2.692358	0.760109
5	New.Referε	5	5	11	23	1	0.194529	5.140631	1
6	302144	10	3	52	5	4.83119	1.00557	32.2058	0.048991
7	New.Referε	7	4	14	4	2.028066	0.427005	11.15168	0.493621
8	New.Referε	4	11	6	38	0.243885	0.046273	1.048991	0.059884
9	300355	10	7	55	20	1.714754	0.449577	6.870612	0.546873
10	25842	19	12	120	107	3.690425	0.920769	17.01014	0.068707
11	807795	20	14	168	34	3.475498	0.797402	18.39148	0.110718
12	New.Referε	8	8	36	17	1	0.254579	3.928055	1
13	New.Referε	12	3	41	4	6.703542	1.424616	44.47535	0.011361
14	347189	5	8	10	34	0.533433	0.112884	2.292648	0.517082
15	302975	19	7	57	12	8.72536	2.10661	43.30741	0.001185
16	91359	13	6	48	10	3.447976	0.900339	14.67714	0.075346
17	163857	10	1	17	2	15.56355	1.866883	739.9977	0.004387
18	4303850	17	14	64	75	1.714754	0.449577	6.870612	0.546873
19	New.Referε	8	11	22	42	0.597474	0.155812	2.203109	0.555643
20	New.Referε	8	9	26	13	0.836511	0.215793	3.191516	1
21	New.Referε	8	3	22	5	3.409821	0.67807	23.16955	0.168092
22	New.Referε	9	2	18	3	6.348574	1.094595	68.64163	0.03633
23	New.Referε	7	8	10	18	0.826874	0.202066	3.313363	1
24	529873	8	3	24	4	3.409821	0.67807	23.16955	0.168092
25	351659	12	17	23	55	0.419666	0.10495	1.566084	0.237524
26	New.Referε	21	20	121	58	1.390237	0.206317	10.70676	1
27	199286	8	13	15	31	0.430954	0.111529	1.571391	0.244315
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oup at T1.DA OTUs were used to be plotted in the Venn diagram (Figure 2).

	fisherAdjP	(Intercept)	ATB_GROUnormFacto	pvalues	adjPvalues	Kingdom	Phylum	Class
1	1	1.284078	4.965668	2.539814	9.72E-10	4.78E-07	k_Bacteri	__Bacteroc__Bactero
2	0.242286	5.643249	-3.98721	-0.5628	2.71E-14	2.66E-11	k_Bacteri	__Firmicu c__Bacilli
3	0.004374	4.099524	-3.32951	-1.14332	2.30E-07	4.21E-05	k_Bacteri	__Firmicu c__Clostrid
4	0.201409	5.983363	-3.24097	4.234385	9.21E-05	0.002919	k_Bacteri	__Firmicu c__Clostrid
5	0.077948	4.094268	-3.01542	-2.18684	6.22E-06	0.000407	k_Bacteri	__Bacteroc__Bactero
6	0.348758	1.970775	2.96125	2.581185	0.002701	0.029178	k_Bacteri	__Bacteroc__Bactero
7	0.077948	0.42909	2.881655	0.852845	7.32E-08	1.80E-05	k_Bacteri	__Bacteroc__Bactero
8	1	1.917833	2.834302	2.95937	7.81E-05	0.002647	k_Bacteri	__Spiroch c__Spirochi
9	1	3.052084	2.717597	2.731858	0.003643	0.034847	k_Bacteri	__Bacteroc__Bactero
10	0.004374	2.674672	-2.69211	-1.36102	6.39E-07	5.83E-05	k_Bacteri	__Firmicu c__Bacilli
11	0.299584	0.953184	2.656484	-0.8952	0.000262	0.0066	k_Bacteri	__Proteok c__Gamma
12	0.131149	3.877501	-2.56634	-0.2249	0.001132	0.017381	k_Bacteri	__Firmicu c__Clostrid
13	0.348758	3.241849	-2.5597	-3.0414	3.92E-06	0.000304	k_Bacteri	__Firmicu c__Clostrid
14	0.00016	3.066725	-2.55701	-0.92901	1.01E-08	3.31E-06	k_Bacteri	__Firmicu c__Bacilli
15	1	4.562777	-2.54949	-2.05355	0.000186	0.004951	k_Bacteri	__Proteok c__Gamma
16	0.005117	2.819177	-2.5339	1.382679	2.27E-05	0.001241	k_Bacteri	__Firmicu c__Clostrid
17	0.232348	4.055104	-2.53334	0.522684	4.00E-05	0.001788	k_Bacteri	__Firmicu c__Clostrid
18	0.000392	2.51063	-2.4846	0.117432	6.52E-07	5.83E-05	k_Bacteri	__Firmicu c__Clostrid
19	3.51E-06	2.831068	-2.46616	0.09997	3.43E-07	4.21E-05	k_Bacteri	__Firmicu c__Clostrid
20	0.002735	2.72322	-2.36226	0.667941	0.000159	0.004454	k_Bacteri	__Firmicu c__Clostrid
21	0.001042	3.108973	-2.28071	0.21352	0.001795	0.023217	k_Bacteri	__Bacteroc__Bactero
22	0.002735	2.0217	-2.26957	-1.22206	2.23E-05	0.001241	k_Bacteri	__Firmicu c__Bacilli
23	0.011431	2.311576	-2.19345	0.539811	1.10E-05	0.000676	k_Bacteri	__Firmicu c__Clostrid
24	0.01352	0.833097	2.18087	-0.57112	2.70E-05	0.00135	k_Bacteri	__Firmicu c__Clostrid
25	0.00028	2.298925	-2.16903	-0.98532	3.16E-07	4.21E-05	k_Bacteri	__Firmicu c__Bacilli
26	0.622031	1.305908	2.160254	2.528998	6.20E-07	5.83E-05	k_Bacteri	__Firmicu c__Clostrid
27	1	3.089854	2.074143	4.289697	0.006054	0.04761	k_Bacteri	__Bacteroc__Bactero
28	1	1.629033	2.066635	3.49668	0.003825	0.035811	k_Bacteri	__Firmicu c__Clostrid
29	0.00016	0.012612	2.061783	-1.67208	0.002164	0.026263	k_Bacteri	__Bacteroc__Bactero
30	0.00016	2.258226	-2.05517	0.354047	4.71E-05	0.002013	k_Bacteri	__Firmicu c__Clostrid
31	0.232348	4.735659	-2.04843	2.960483	0.000441	0.009424	k_Bacteri	__Firmicu c__Clostrid
32	0.000913	2.795572	-2.03379	1.48352	2.89E-07	4.21E-05	k_Bacteri	__Firmicu c__Clostrid
33	0.450204	0.774969	2.026592	1.667907	7.59E-05	0.002647	k_Bacteri	__Firmicu c__Clostrid
34	0.131149	3.339503	2.021184	3.902596	0.003974	0.036855	k_Bacteri	__Firmicu c__Clostrid
35	1	5.16326	2.0188	3.015577	5.00E-05	0.002048	k_Bacteri	__Firmicu c__Clostrid
36	0.688475	2.702257	-2.00163	1.724168	0.000853	0.014204	k_Bacteri	__Firmicu c__Clostrid
37	0.552465	6.623038	-1.98594	-1.44117	0.000787	0.013814	k_Bacteri	__Firmicu c__Clostrid
38	0.147378	2.331969	-1.98287	0.422635	0.00055	0.010808	k_Bacteri	__Firmicu c__Clostrid
39	1	0.941891	1.976941	2.118391	0.003727	0.035224	k_Bacteri	__Bacteroc__Bactero
40	0.019999	2.731284	-1.97243	0.535469	0.002427	0.027743	k_Bacteri	__Firmicu c__Clostrid
41	1	3.995513	1.924128	3.514423	0.002323	0.027512	k_Bacteri	__Proteok c__Deltapri
42	1	1.878989	1.913789	0.95138	0.000303	0.007119	k_Bacteri	__Firmicu c__Clostrid
43	0.960186	1.344954	1.881513	3.102889	0.003494	0.034847	k_Bacteri	__Firmicu c__Clostrid
44	1	1.953253	1.862453	2.709463	0.000807	0.013921	k_Bacteri	__Firmicu c__Clostrid
45	1	5.993783	-1.84686	0.422699	2.75E-05	0.00135	k_Bacteri	__Firmicu c__Bacilli
46	0.450204	2.058444	-1.82641	-0.65495	0.000159	0.004454	k_Bacteri	__Firmicu c__Clostrid
47	1	5.306251	1.815556	2.007651	0.00459	0.039928	k_Bacteri	__Firmicu c__Clostrid
48	0.054437	2.305693	-1.81213	0.099986	6.53E-05	0.002378	k_Bacteri	__Firmicu c__Clostrid
49	0.131149	2.099713	-1.78286	-0.24513	0.000418	0.009225	k_Bacteri	__Firmicu c__Clostrid

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2	0.201409	2.772673	-1.77797	0.48652	0.001195	0.01754	k__Bacteriap__Firmicu c__Clostrid
3	1	1.717005	1.759166	1.445963	0.000126	0.003743	k__Bacteriap__Firmicu c__Clostrid
4	1	6.630107	-1.74827	1.620012	0.001189	0.01754	k__Bacteriap__Firmicu c__Bacilli
5	0.038997	1.941108	-1.73938	-1.07964	4.14E-06	0.000304	k__Bacteriap__Firmicu c__Clostrid
6	0.348758	3.784205	-1.73611	0.596937	0.005762	0.046053	k__Bacteriap__Bacteroc__Bactero
7	1	1.435996	1.730876	2.624659	0.003595	0.034847	k__Bacteriap__Firmicu c__Clostrid
8	0.688475	0.47909	1.727539	0.938926	0.002658	0.029026	k__Bacteriap__Firmicu c__Clostrid
9	0.485299	4.200388	-1.72297	0.3447	0.00622	0.048146	k__Bacteriap__Firmicu c__Clostrid
10	0.032414	2.673439	-1.70915	-0.8474	0.00092	0.014633	k__Bacteriap__Firmicu c__Clostrid
11	0.450204	4.237914	-1.70415	3.005496	0.006164	0.048089	k__Bacteriap__Bacteroc__Bactero
12	0.762	2.739064	-1.6967	1.588459	0.000633	0.012014	k__Bacteriap__Firmicu c__Clostrid
13	0.017104	2.413396	-1.67713	-0.97815	9.16E-05	0.002919	k__Bacteriap__Firmicu c__Clostrid
14	0.762	3.309929	-1.66611	0.717166	0.000499	0.010015	k__Bacteriap__Firmicu c__Clostrid
15	1	0.878073	1.642281	2.140049	0.000923	0.014633	k__Bacteriap__Bacteroc__Bactero
16	0.069394	2.564696	-1.62975	0.728062	0.000744	0.013305	k__Bacteriap__Firmicu c__Clostrid
17	0.025436	2.079683	-1.60537	1.203332	0.001678	0.022297	k__Bacteriap__Firmicu c__Clostrid
18	0.131149	1.174185	1.598588	-0.85319	3.96E-05	0.001788	Unassigned NA NA
19	1	1.85512	1.596548	2.153541	0.001193	0.01754	k__Bacteriap__Bacteroc__Bactero
20	0.137932	4.40685	-1.57974	0.764556	0.004928	0.041416	k__Bacteriap__Firmicu c__Clostrid
21	1	2.057691	-1.57785	-0.72813	4.33E-06	0.000304	k__Bacteriap__Bacteroc__Bactero
22	1	1.108252	1.539605	2.046144	0.003645	0.034847	k__Bacteriap__Bacteroc__Bactero
23	1	4.781188	-1.49344	-0.41412	0.003571	0.034847	k__Bacteriap__Firmicu c__Clostrid
24	0.218489	3.289046	-1.49257	1.696285	0.002376	0.027619	k__Bacteriap__Firmicu c__Clostrid
25	1	0.929377	1.488658	1.206534	0.001647	0.022297	k__Bacteriap__Firmicu c__Clostrid
26	0.019999	1.905469	-1.46643	-0.01607	0.001879	0.023939	k__Bacteriap__Firmicu c__Clostrid
27	0.450204	1.125694	1.46291	1.820013	0.000192	0.004958	k__Bacteriap__Bacteroc__Bactero
28	1	2.158926	-1.4448	0.433088	9.88E-05	0.003035	k__Bacteriap__Bacteroc__Bactero
29	0.806087	3.592703	-1.44032	-0.87274	0.001713	0.022455	k__Bacteriap__Firmicu c__Clostrid
30	1	4.53884	1.432819	0.074116	0.004958	0.041416	k__Bacteriap__Firmicu c__Clostrid
31	1	4.920922	-1.42792	-0.7967	5.86E-05	0.002217	k__Bacteriap__Bacteroc__Bactero
32	0.450204	1.832964	-1.40342	-0.94016	0.000651	0.012077	k__Bacteriap__Firmicu c__Clostrid
33	1	1.267472	1.393474	0.970069	0.004927	0.041416	k__Bacteriap__Bacteroc__Bactero
34	0.960186	1.691584	1.38581	2.223494	0.004174	0.037641	k__Bacteriap__Bacteroc__Bactero
35	0.450204	2.509374	-1.38156	0.013418	0.00028	0.006887	k__Bacteriap__Firmicu c__Clostrid
36	1	4.704203	-1.38006	3.014693	0.002533	0.028293	k__Bacteriap__Firmicu c__Clostrid
37	0.806087	2.133971	-1.37854	0.378511	5.78E-05	0.002217	k__Bacteriap__Proteokc__Gamma
38	1	3.308727	-1.36029	1.095124	0.002743	0.029304	k__Bacteriap__Firmicu c__Clostrid
39	1	2.560757	-1.36024	1.288568	0.000978	0.015265	k__Bacteriap__Bacteroc__Bactero
40	0.299584	1.855163	-1.35093	-0.64327	0.000486	0.009954	k__Bacteriap__Firmicu c__Clostrid
41	1	1.636615	1.30514	1.536382	0.004969	0.041416	k__Bacteriap__Firmicu c__Clostrid
42	1	1.211739	1.298971	1.78809	0.001273	0.018141	k__Bacteriap__Firmicu c__Clostrid
43	0.009749	1.552998	-1.29666	0.068833	0.000171	0.004676	k__Bacteriap__Firmicu c__Bacilli
44	0.960186	0.799353	1.286305	1.974758	0.001517	0.020998	k__Bacteriap__Firmicu c__Clostrid
45	1	6.642419	-1.26578	0.092815	0.004062	0.03732	k__Bacteriap__Firmicu c__Clostrid
46	0.005117	1.972773	-1.24018	0.800286	0.000465	0.009736	k__Bacteriap__Firmicu c__Clostrid
47	1	1.911437	1.224797	2.813365	0.005616	0.045253	k__Bacteriap__Firmicu c__Clostrid
48	0.485299	3.005349	-1.22304	0.9175	0.000636	0.012014	k__Bacteriap__Actinobc__Corioba
49	1	1.657183	1.222992	1.002165	0.004147	0.037641	k__Bacteriap__Bacteroc__Bactero
50	0.093755	1.68194	-1.22275	2.053698	0.002388	0.027619	k__Bacteriap__Firmicu c__Clostrid
51	0.920248	2.077937	1.220416	-0.25405	0.003651	0.034847	k__Bacteriap__Proteokc__Epsilon
52	0.232348	1.892648	-1.20461	-0.93554	0.000304	0.007119	k__Bacteriap__Firmicu c__Clostrid
53	0.218489	2.163402	-1.18633	0.488689	0.001908	0.023939	k__Bacteriap__Firmicu c__Clostrid

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2		1	1.271038	1.174884	1.856133	0.000706	0.012853	k__Bacteriæp__Bacteroc__Bactero
3	0.450204	3.555235	-1.17169	-0.42884	0.005309	0.043487	0.043487	k__Bacteriæp__Bacteroc__Bactero
4		1	1.76382	1.169704	1.528983	0.001327	0.018638	k__Bacteriæp__Proteokc__Deltapr
5		1	1.005014	1.164155	1.415719	0.003088	0.032639	k__Bacteriæp__Firmicu c__Clostrid
6	0.37253	1.820968	-1.10147	1.557606	0.003304	0.034187	0.034187	k__Bacteriæp__Firmicu c__Clostrid
7		1	1.374509	-1.08337	-0.41295	0.000422	0.009225	k__Bacteriæp__Bacteroc__Bactero
8	0.423498	0.717278	1.077729	0.010717	0.003584	0.034847	0.034847	k__Bacteriæp__Bacteroc__Bactero
9		1	1.908987	-1.0667	-1.31977	0.005891	0.046698	k__Bacteriæp__Actinobc__Corioba
10	0.450204	2.052982	1.064689	2.486439	0.004972	0.041416	0.041416	k__Bacteriæp__Firmicu c__Clostrid
11	0.552465	2.563139	-1.05307	0.613195	0.003476	0.034847	0.034847	k__Bacteriæp__Firmicu c__Bacilli
12		1	2.048258	-1.05303	-0.58049	0.002284	0.027376	k__Bacteriæp__Bacteroc__Bactero
13	0.16186	1.619176	-1.04916	1.067839	0.000897	0.014633	0.014633	k__Bacteriæp__Bacteroc__Bactero
14		1	0.822788	1.046823	1.354557	0.004568	0.039928	k__Bacteriæp__Firmicu c__Clostrid
15	0.036411	1.818988	-0.99033	0.145525	0.000352	0.008055	0.008055	k__Bacteriæp__Firmicu c__Bacilli
16	0.450204	1.833709	-0.98589	0.355968	0.001661	0.022297	0.022297	k__Bacteriæp__Firmicu c__Clostrid
17	0.093755	1.123504	-0.96829	-0.29431	0.000826	0.014001	0.014001	k__Bacteriæp__Proteokc__Gamma
18		1	1.518654	0.959849	1.96837	0.005303	0.043487	k__Bacteriæp__Firmicu c__Clostrid
19		1	1.230013	0.945697	1.386296	0.004479	0.039928	k__Bacteriæp__Bacteroc__Bactero
20		1	1.851579	-0.89317	-0.25045	0.001924	0.023939	k__Bacteriæp__Bacteroc__Bactero
21	0.688475	1.204231	-0.88226	-1.35746	0.003177	0.033224	0.033224	k__Bacteriæp__Bacteroc__Bactero
22	0.324655	1.111309	-0.85515	-0.82525	0.002463	0.027834	0.027834	UnassignedNA NA
23		1	0.833748	0.846809	1.086181	0.002643	0.029026	k__Bacteriæp__Bacteroc__Bactero
24	0.688475	1.630443	-0.84269	1.307919	0.002067	0.025392	0.025392	k__Bacteriæp__Firmicu c__Clostrid
25	0.806087	1.134601	0.807385	0.950273	0.005473	0.044466	0.044466	k__Bacteriæp__Firmicu c__Clostrid
26		1	2.609383	-0.77673	0.253845	0.001225	0.017702	k__Bacteriæp__Bacteroc__Bactero
27	0.806087	0.908598	0.760418	1.247701	0.004511	0.039928	0.039928	k__Bacteriæp__Firmicu c__Clostrid
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	Order	Family	Genus	Species
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5	o_Bacterof	[Parapreg	[Prevot	s__
6	o_Lactobaf	Lactobag	Lactoba	s__
7				
8	o_Clostridf	Rumino	g__	s__
9	o_Clostridf	Lachnos	g__	s__
10	o_Bacterof	[Parapreg		s__
11	o_Bacterof	Bacteroig	Bactero	s__barnesia
12	o_Bacterof	S24-7	g__	s__
13	o_Spirochf	Spiroch	g__Trepon	s__
14	o_Bacterof	Prevotel	Prevote	s__
15	o_Lactobaf	Strepto	g__Strepto	s__
16	o_Pasteurf	Pasteur	g__Actinob	s__
17				
18	o_Clostridf		g__	s__
19	o_Clostridf	Rumino	g__	s__
20	o_Lactobaf	Lactobag	Lactoba	s__
21	o_Aeromcf	Succiniv	Succiniv	s__
22				
23	o_Clostridf		g__	s__
24	o_Clostridf	Lachnos	g__Coprocc	s__
25	o_Clostridf	Lachnos	g__	s__
26	o_Clostridf	Lachnos	NA	NA
27	o_Clostridf	Lachnos	g__	s__
28	o_Bacterof	S24-7	g__	s__
29	o_Lactobaf	Strepto	g__Strepto	s__
30				
31	o_Clostridf		g__	s__
32	o_Clostridf	Rumino	g__	s__
33	o_Lactobaf	Lactobag	Lactoba	s__
34	o_Clostridf		g__	s__
35	o_Bacterof	Porphy	g__Paludib	s__
36	o_Clostridf		g__	s__
37	o_Bacterof	[Odorib	g__Butyr	s__
38	o_Clostridf	[Mogib	g__Anaero	s__
39	o_Clostridf	Lachnos	g__	s__
40	o_Clostridf	Lachnos	g__Coprocc	s__
41	o_Clostridf		g__	s__
42	o_Clostridf	Veillone	g__Anaero	s__
43	o_Clostridf	Rumino	g__	s__
44	o_Clostridf	Rumino	g__	s__
45	o_Clostridf	Rumino	g__	s__
46	o_Clostridf	Rumino	g__	s__
47	o_Clostridf	Rumino	g__	s__
48	o_Clostridf	Rumino	g__	s__
49	o_Bacterof		g__	s__
50	o_Clostridf	Lachnos	g__Coprocc	s__
51	o_GMD14	f__	g__	s__
52	o_Clostridf	Rumino	g__	s__
53	o_Clostridf		g__	s__
54	o_Clostridf	Rumino	g__	s__
55	o_Lactobaf	Lactobag	Lactoba	s__
56	o_Clostridf		g__	s__
57	o_Clostridf	Veillone	g__Anaero	s__
58	o_Clostridf		g__	s__
59	o_Clostridf		g__	s__
60	o_Clostridf		g__	s__

1 o__Clostridf__Christeng__ s__
 2 o__Clostridf__ g__ s__
 3 o__Lactobaf__Lactobag__Lactobas__
 4 o__Clostridf__ g__ s__
 5 o__Bacterof__[Parapreg__YRC22 s__
 6 o__Clostridf__Lachnosg__ s__
 7 o__Clostridf__Ruminoig__ s__
 8 o__Clostridf__ g__ s__
 9 o__Clostridf__ g__ s__
 10 o__Bacterof__[Parapreg__CF231 s__
 11 o__Clostridf__Lachnosg__Coproccs__
 12 o__Clostridf__Lachnosg__[Ruminos__
 13 o__Clostridf__Lachnosg__Coproccs__
 14 o__Bacterof__Porphyrg__Paludib.s__
 15 o__ClostridNA NA NA
 16 o__Clostridf__Ruminoig__ s__
 17 NA NA NA NA
 18 o__Bacterof__Prevotelg__Prevotes__
 19 o__Clostridf__Clostridig__ s__
 20 o__Bacterof__[Parapreg__[Prevotis__
 21 o__Bacterof__RF16 g__ s__
 22 o__Clostridf__Ruminoig__ s__
 23 o__Clostridf__Lachnosg__ s__
 24 o__Clostridf__Lachnosg__ s__
 25 o__Clostridf__Lachnosg__ s__
 26 o__Bacterof__ g__ s__
 27 o__Bacterof__Prevotelg__Prevotes__copri
 28 o__Clostridf__Lachnosg__ s__
 29 o__Clostridf__Veilloneg__Anaeross__
 30 o__Bacterof__S24-7 g__ s__
 31 o__Clostridf__Lachnosg__[Ruminos__
 32 o__Bacterof__Porphyrg__Parabacs__
 33 o__Bacterof__Bacteroig__Bacteros__
 34 o__Clostridf__ClostridINA NA
 35 o__Clostridf__Ruminoig__ s__
 36 o__Aeromcf__Succinivg__Succinivs__
 37 o__Clostridf__ g__ s__
 38 o__Bacterof__Prevotelg__Prevotes__copri
 39 o__Clostridf__Lachnosg__Coproccs__
 40 o__Clostridf__LachnosNA NA
 41 o__Clostridf__ g__ s__
 42 o__Lactobaf__Lactobag__Lactobas__
 43 o__Clostridf__Ruminoig__Ruminos__flavefaciens
 44 o__Clostridf__Lachnosg__ s__
 45 o__Clostridf__Lachnosg__Dorea s__
 46 o__Clostridf__ g__ s__
 47 o__Coriobaf__Coriobag__ s__
 48 o__Bacterof__S24-7 g__ s__
 49 o__Clostridf__Ruminoig__Ruminos__
 50 o__Campylf__Campylg__Campyls__
 51 o__Clostridf__[Mogibag__ s__
 52 o__Clostridf__Lachnosg__ s__

1 o__Bacterof__[Parapreg__[Prevotiss__
 2 o__Bacterof__Prevotelig__Prevotiss__copri
 3 o__Desulfof__Desulfovg__ s__
 4 o__Clostridf__ g__ s__
 5 o__Clostridf__Ruminoig__ s__
 6 o__Bacterof__[Parapreg__[Prevotiss__
 7 o__Bacterof__[Parapreg__[Prevotiss__
 8 o__Coriobaf__Coriobaig__ s__
 9 o__Clostridf__ g__ s__
 10 o__Lactobaf__Lactobag__Lactobas__
 11 o__Bacterof__S24-7 g__ s__
 12 o__Bacterof__[Parapreg__[Prevotiss__
 13 o__Clostridf__Lachnosg__ s__
 14 o__Lactobaf__Lactobag__Lactobas__
 15 o__Clostridf__Lachnosg__Lachnos s__
 16 o__Aeromcf__Succinivg__Succiniv s__
 17 o__Clostridf__Ruminoig__ s__
 18 o__Bacterof__Prevotelig__Prevotiss__copri
 19 o__Bacterof__[Parapreg__[Prevotiss__
 20 o__Bacterof__S24-7 g__ s__
 21 NA NA NA NA
 22 o__Bacterof__Prevotelig__Prevotiss__copri
 23 o__Clostridf__ g__ s__
 24 o__Clostridf__Lachnosg__ s__
 25 o__Bacterof__ g__ s__
 26 o__Clostridf__Ruminoig__ s__
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Table S10: Differentially abundant (DA) OTUs when comparing P (parenteral administrated) vs. O (ora

OTU	+samples i	+samples i	counts in g	counts in g	oddsRatio	lower	upper	fisherP
New.Cleanl	6	5	604	63	1.195355	0.251331	5.937938	1
355697	11	16	802	1128	0.378394	0.093562	1.419554	0.142454
New.Referε	15	10	2490	140	2.130432	0.582881	8.175768	0.247648
198552	1	10	2	238	0.059907	0.001255	0.502671	0.001797
4306043	12	0	133	0	Inf	4.2057	Inf	7.76E-05
581474	18	21	62	842	0.293142	0.025871	1.907103	0.244816
812596	24	18	4533	1584	Inf	1.053166	Inf	0.021936
856253	5	13	59	1383	0.210105	0.044642	0.851202	0.017128
99414	2	12	3	365	0.088262	0.008205	0.497697	0.001349
924224	10	10	121	1024	0.930038	0.250814	3.4376	1
366584	22	21	408	2769	1.046601	0.069913	15.66846	1
46910	8	18	23	429	0.145803	0.030102	0.597157	0.003157
New.Referε	0	13	0	112	0	0	0.178331	8.13E-06
531052	7	16	37	733	0.187707	0.042648	0.732305	0.008672
New.Referε	16	9	2737	167	3.032859	0.815327	12.15066	0.08198
353214	4	11	12	416	0.225791	0.042407	0.980721	0.030477
470382	3	12	6	194	0.137283	0.020523	0.653032	0.00499
306124	8	4	510	5	2.33163	0.507725	12.64004	0.317659
New.Referε	1	15	49	270	0.025515	0.000535	0.21191	8.48E-06
New.Referε	0	10	0	247	0	0	0.299952	0.000221
305187	17	18	231	937	0.680282	0.140693	3.058911	0.739967
New.Cleanl	18	6	352	64	8.04675	1.954581	38.92257	0.001243
New.Referε	3	14	4	85	0.09745	0.014395	0.464393	0.000782
1084643	6	12	15	149	0.313743	0.073021	1.220527	0.075346
New.Referε	10	13	48	1058	0.556596	0.147803	2.019772	0.386809
10945	11	18	45	311	0.242888	0.052248	0.976504	0.035512
753891	8	14	217	867	0.329722	0.0823	1.226502	0.08198
New.Referε	12	20	62	578	0.156549	0.023533	0.740228	0.011361
332831	10	19	237	898	0.157251	0.029473	0.673084	0.006484
40798	24	18	822	284	Inf	1.053166	Inf	0.021936
532771	10	15	38	735	0.389158	0.098913	1.43555	0.146807
300235	24	20	7860	2329	Inf	0.443794	Inf	0.10922
539202	11	13	609	121	0.656924	0.176612	2.378916	0.563923
New.Referε	7	4	8	33	1.928252	0.404018	10.64184	0.493621
276561	16	4	192	33	8.97406	2.062922	49.2688	0.001022
843459	9	17	22	168	0.21956	0.05012	0.853736	0.01893
515590	24	23	455	2068	0	0	Inf	1
553352	8	20	8	130	0.080196	0.01172	0.383876	0.000275
1110378	21	18	1138	257	1.917211	0.320659	14.09428	0.461397
1068116	9	2	236	4	6.062685	1.041236	65.6771	0.03633
577206	22	16	1028	219	4.657209	0.751966	51.74074	0.072265
New.Referε	5	9	8	86	0.417365	0.088699	1.757139	0.212385
551902	7	17	39	192	0.15242	0.032967	0.61078	0.00341
25453	6	12	76	221	0.313743	0.073021	1.220527	0.075346
New.Referε	5	14	18	216	0.176499	0.037055	0.718034	0.007664
1951826	6	4	41	8	1.567958	0.310975	8.877413	0.723793
319818	10	14	258	389	0.467044	0.121848	1.703605	0.247648
509416	1	12	5	76	0.042739	0.000901	0.35282	0.000257
510286	9	3	92	8	3.883293	0.78956	26.163	0.093308

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2	577406	3	11	7	75	0.162537	0.024258	0.778068	0.011361
3	581201	7	18	17	133	0.120886	0.024287	0.503941	0.001185
4	179806	7	15	49	356	0.227528	0.053478	0.872206	0.019855
5	570341	7	8	15	477	0.776338	0.18814	3.132097	0.760109
6	527413	13	8	141	14	2.177815	0.591441	8.473911	0.244315
7	192079	20	11	179	30	5.245648	1.215392	27.95219	0.014547
8	361727	2	10	4	51	0.123818	0.011461	0.710525	0.007841
9	301280	18	20	393	930	0.457618	0.06446	2.529743	0.461397
10	72926	24	23	2474	840	0	0	Inf	1
11	870421	20	19	223	933	1.051509	0.169522	6.52293	1
12	516159	20	21	312	641	0.483587	0.039586	3.8118	0.666172
13	New.Refer	7	3	37	5	2.687356	0.512614	18.62434	0.286466
14	364736	3	10	5	58	0.192767	0.028716	0.933513	0.024301
15	366716	2	10	5	41	0.123818	0.011461	0.710525	0.007841
16	355175	10	7	201	31	1.615574	0.420161	6.514702	0.546873
17	New.Refer	23	18	1642	433	6.164933	0.611518	314.4661	0.097147
18	584263	4	12	26	148	0.190634	0.035775	0.82278	0.014547
19	New.Refer	17	19	182	741	0.518604	0.093969	2.475135	0.493621
20	New.Refer	8	5	87	10	1.777545	0.411222	8.437403	0.517082
21	549756	3	14	4	52	0.09745	0.014395	0.464393	0.000782
22	517344	24	23	3328	1405	0	0	Inf	1
23	354461	0	10	0	22	0	0	0.299952	0.000221
24	366623	4	13	8	54	0.160808	0.029972	0.693135	0.006484
25	43544	21	20	1076	539	1.048932	0.125257	8.785856	1
26	804526	15	13	46	179	1.275261	0.342414	4.824108	0.77016
27	New.Refer	8	2	66	6	5.073439	0.84964	55.43053	0.072265
28	540862	10	6	100	26	1.993366	0.504042	8.512001	0.358723
29	532232	2	12	2	42	0.088262	0.008205	0.497697	0.001349
30	4333897	7	4	41	13	1.928252	0.404018	10.64184	0.493621
31	70580	6	6	22	54	0.945623	0.206749	4.320736	1
32	655793	24	22	3233	1364	Inf	0.026756	Inf	0.489362
33	290804	15	19	53	181	0.358856	0.067027	1.603325	0.193019
34	337057	4	12	18	81	0.190634	0.035775	0.82278	0.014547
35	523934	10	16	35	136	0.320752	0.07851	1.205276	0.07977
36	4307122	4	10	22	915	0.267884	0.050183	1.177362	0.059884
37	195465	13	6	55	10	3.259338	0.84478	13.93684	0.075346
38	295100	3	9	5	32	0.229619	0.03396	1.132039	0.048991
39	292585	3	9	6	45	0.229619	0.03396	1.132039	0.048991
40	New.Refer	7	14	39	130	0.272886	0.065559	1.035035	0.041464
41	526583	18	17	124	349	1.057503	0.231442	4.836781	1
42	291543	19	13	149	44	2.855063	0.691	13.34103	0.124581
43	New.Refer	7	7	44	15	0.942415	0.224173	3.956757	1
44	350666	16	12	191	71	1.809522	0.485403	7.036843	0.380129
45	349257	19	10	111	23	4.759523	1.174809	22.40022	0.017128
46	New.Refer	17	6	46	51	6.560812	1.637252	30.33325	0.00341
47	772282	6	7	8	390	0.766343	0.172087	3.309385	0.751642
48	782953	8	5	64	17	1.777545	0.411222	8.437403	0.517082
49	New.Refer	11	3	42	6	5.430091	1.139433	36.15504	0.024301
50	322505	23	18	355	108	6.164933	0.611518	314.4661	0.097147
51	296094	20	17	191	400	1.743412	0.345761	9.883938	0.493621
52	324244	23	20	405	831	3.365637	0.247461	188.6277	0.347518
53	New.Refer	3	7	19	19	0.33442	0.048167	1.754854	0.168092

1									
2	408513	24	21	449	173	Inf	0.197543	Inf	0.234043
3	578588	14	17	43	140	0.501664	0.117481	1.983962	0.358723
4	851865	23	20	409	159	3.365637	0.247461	188.6277	0.347518
5	25842	12	14	107	51	0.64899	0.172421	2.369425	0.561215
6	New.Refer	11	5	55	15	2.972773	0.731073	13.7663	0.124581
7	799443	17	19	92	247	0.518604	0.093969	2.475135	0.493621
8	555945	8	15	20	82	0.274825	0.066922	1.033521	0.04222
9	588216	10	4	57	8	3.304228	0.753996	17.55081	0.110718
10	621472	19	12	162	54	3.387541	0.829896	15.79507	0.068707
11	343831	4	8	4	25	0.383019	0.070474	1.761034	0.193019
12	New.Refer	11	5	24	27	2.972773	0.731073	13.7663	0.124581
13	New.Refer	7	11	19	53	0.457099	0.112925	1.738215	0.237524
14	369429	6	14	15	70	0.222117	0.050587	0.866989	0.01893
15	306315	12	8	64	16	1.849762	0.500858	7.154098	0.380129
16	290322	5	9	17	52	0.417365	0.088699	1.757139	0.212385
17	New.Refer	10	7	51	11	1.615574	0.420161	6.514702	0.546873
18	347226	8	13	13	59	0.39282	0.099633	1.454215	0.146807
19	304154	8	9	56	15	0.781966	0.199678	3.007657	0.766128
20	51306	19	15	225	91	1.996127	0.461402	9.501345	0.341163
21	New.Clean	8	8	14	29	0.938806	0.236887	3.71368	1
22	New.Refer	9	6	15	22	1.68079	0.416579	7.234206	0.53433
23	340761	12	5	30	6	3.499155	0.867408	16.20154	0.068707
24	837859	11	4	49	12	3.898213	0.901316	20.62247	0.059884
25	New.Refer	3	11	5	33	0.162537	0.024258	0.778068	0.011361
26	185961	22	19	133	60	2.275414	0.288636	27.80484	0.415801
27	New.Refer	11	8	40	17	1.570891	0.421974	6.06699	0.555643
28	181170	18	7	42	8	6.538589	1.630053	30.24963	0.00341
29	827702	11	13	29	76	0.656924	0.176612	2.378916	0.563923
30	New.Refer	20	19	58	121	1.051509	0.169522	6.52293	1
31	New.Refer	13	3	30	6	7.511272	1.594112	50.10107	0.00499
32	359175	11	6	30	8	2.352341	0.602887	10.01131	0.227018
33	New.Refer	14	6	43	8	3.843958	0.994904	16.5897	0.03921
34	New.Refer	9	5	28	8	2.124641	0.505463	9.957889	0.341163
35	807795	14	16	34	84	0.618975	0.153499	2.380042	0.546873
36	New.Refer	13	12	63	31	1.081489	0.296843	3.95693	1
37	733799	22	20	217	367	1.632591	0.168619	21.43219	0.666172
38	New.Refer	17	8	62	17	4.395059	1.146518	18.69934	0.019855
39	525215	15	14	73	29	1.069847	0.281828	4.070736	1
40	New.Refer	18	13	69	24	2.266092	0.571883	9.72934	0.227018
41	302975	7	14	12	34	0.272886	0.065559	1.035035	0.041464
42	189083	8	14	11	31	0.329722	0.0823	1.226502	0.08198
43	701221	19	15	87	45	1.996127	0.461402	9.501345	0.341163
44	New.Clean	18	12	50	21	2.689397	0.687018	11.52343	0.135095
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al administrated) group at T1. DA OTUs were used to be plotted in the Venn diagram (Figure 2).

	fisherAdjP	(Intercept)	ATB_GROUnormFacto	pvalues	adjPvalues	Kingdom	Phylum	Class
5	1	6.402141	-3.4934	1.534522	9.19E-07	8.89E-05	k__Bacteri	__Bacteroc__Bactero
6	0.626653	1.882195	3.417066	1.760865	7.12E-07	7.76E-05	k__Bacteri	__Firmicu c__Clostrid
7	0.739887	4.772914	-3.18182	-0.46523	0.000143	0.003851	Unassigned	NA
8	0.102347	0.306647	3.150642	1.648688	2.30E-07	4.61E-05	k__Bacteri	__Firmicu c__Clostrid
9	0.025048	3.079809	-2.93774	0.32693	3.31E-07	5.33E-05	k__Bacteri	__Bacteroc__Bactero
10	0.739887	1.907927	2.898582	1.352857	4.47E-11	4.33E-08	k__Bacteri	__Firmicu c__Bacilli
11	0.303965	6.769573	-2.86172	1.761351	8.66E-05	0.002705	k__Bacteri	__Firmicu c__Clostrid
12	0.286856	1.156341	2.805973	1.183724	0.000496	0.008328	k__Bacteri	__Spiroch c__Spiroch
13	0.081604	0.332925	2.802405	0.2851	4.52E-06	0.000365	k__Bacteri	__Firmicu c__Clostrid
14	1	1.950231	2.691372	1.819861	0.000137	0.003802	k__Bacteri	__Spiroch c__Spiroch
15	1	3.307522	2.650817	-3.18238	4.90E-07	6.77E-05	k__Bacteri	__Firmicu c__Clostrid
16	0.157173	0.97534	2.649506	-0.94251	2.37E-07	4.61E-05	k__Bacteri	__Firmicu c__Clostrid
17	0.004105	-0.04008	2.539007	-0.86063	2.38E-07	4.61E-05	k__Bacteri	__Firmicu c__Clostrid
18	0.215247	1.42218	2.532012	1.339672	7.90E-05	0.002638	k__Bacteri	__Firmicu c__Clostrid
19	0.4991	4.407602	-2.52328	1.372503	0.003342	0.032351	k__Bacteri	__Bacteroc__Bactero
20	0.368766	0.725053	2.488272	0.682617	0.000189	0.004258	k__Bacteri	__Firmicu c__Clostrid
21	0.172504	0.54376	2.399173	1.23878	1.02E-05	0.000657	k__Bacteri	__Firmicu c__Clostrid
22	0.841419	2.819489	-2.18855	0.744562	0.000333	0.006588	k__Bacteri	__Firmicu c__Clostrid
23	0.004105	0.824696	2.179887	0.589996	0.000871	0.012398	k__Bacteri	__Bacteroc__Bactero
24	0.038038	0.084461	2.15589	1.833379	0.000179	0.004234	k__Bacteri	__Proteokc__Alphapr
25	0.986161	2.415909	2.139089	1.473777	0.000102	0.003091	k__Bacteri	__Firmicu c__Clostrid
26	0.081604	3.330515	-2.13648	0.291105	0.000386	0.007053	k__Bacteri	__Bacteroc__Bactero
27	0.075689	0.396034	1.999997	0.641473	7.21E-07	7.76E-05	k__Bacteri	__Bacteroc__Bactero
28	0.4991	1.051609	1.983655	1.457104	4.93E-06	0.000367	k__Bacteri	__Firmicu c__Clostrid
29	0.841419	1.553612	1.981347	1.757705	0.002464	0.026211	k__Bacteri	__Proteokc__Deltapr
30	0.374118	1.736893	1.981072	-0.62903	1.96E-06	0.000173	k__Bacteri	__Proteokc__Epsilon
31	0.4991	2.216649	1.96831	2.162975	0.004174	0.035757	k__Bacteri	__Firmicu c__Clostrid
32	0.249953	2.088233	1.954648	0.300206	6.13E-05	0.002312	k__Bacteri	__Bacteroc__Bactero
33	0.202465	2.503265	1.886446	1.457277	0.003254	0.031948	k__Bacteri	__Firmicu c__Clostrid
34	0.303965	4.748904	-1.85938	0.727171	7.65E-05	0.002638	k__Bacteri	__Firmicu c__Clostrid
35	0.626653	1.533973	1.83121	3.184505	0.000374	0.006964	k__Bacteri	__Firmicu c__Clostrid
36	0.576208	7.420868	-1.82622	1.066335	0.003673	0.033229	k__Bacteri	__Firmicu c__Clostrid
37	0.909797	3.35704	-1.82531	3.836133	0.0026	0.027066	k__Bacteri	__Firmicu c__Clostrid
38	0.909797	0.664305	1.824247	-0.07299	0.000121	0.003501	k__Bacteri	__Bacteroc__Bactero
39	0.081604	3.078862	-1.79498	-0.39211	0.000587	0.009164	k__Bacteri	__Firmicu c__Clostrid
40	0.286856	1.132957	1.794953	0.437166	7.01E-06	0.000485	k__Bacteri	__Firmicu c__Clostrid
41	1	3.649563	1.790585	-0.57164	0.000288	0.005936	k__Bacteri	__Bacteroc__Bactero
42	0.038038	0.711852	1.776333	0.929898	8.57E-08	4.15E-05	k__Bacteri	__Firmicu c__Bacilli
43	0.909797	4.785581	-1.7685	0.787149	0.000723	0.01077	k__Bacteri	__Firmicu c__Clostrid
44	0.374118	2.135149	-1.74668	-0.34706	0.002796	0.028196	k__Bacteri	__Bacteroc__Bactero
45	0.4991	4.853464	-1.72977	1.258829	0.000168	0.004077	k__Bacteri	__Firmicu c__Clostrid
46	0.739887	0.647927	1.72309	0.982912	8.29E-05	0.002676	k__Bacteri	__Firmicu c__Clostrid
47	0.157173	1.361403	1.719998	-0.0444	0.000185	0.004258	k__Bacteri	__Firmicu c__Clostrid
48	0.4991	1.713106	1.719263	0.261941	0.002453	0.026211	k__Bacteri	__Deferritc__Deferrit
49	0.215247	1.037789	1.707655	1.294877	0.000655	0.009901	k__Bacteri	__Firmicu c__Clostrid
50	0.986161	2.015853	-1.69463	-1.13334	0.000123	0.003501	k__Bacteri	__Proteokc__Gamma
51	0.739887	2.240698	1.692496	2.776846	0.000917	0.012675	k__Bacteri	__Firmicu c__Clostrid
52	0.038038	0.398286	1.68193	1.065072	0.000159	0.00404	k__Bacteri	__Firmicu c__Clostrid
53	0.554122	2.269886	-1.67991	0.662319	0.000586	0.009164	k__Bacteri	__Firmicu c__Clostrid

1								
2	0.249953	0.574346	1.669057	0.064996	0.000154	0.00402	k__Bacteriap__Firmicu c__Clostrid	
3	0.081604	1.009759	1.655523	0.386445	1.49E-05	0.000758	k__Bacteriap__Firmicu c__Clostrid	
4	0.286856	1.521015	1.641603	-1.22681	0.003907	0.034697	k__Bacteriap__Bacteroc__Bactero	
5	0.986161	0.777341	1.629754	1.855816	0.003631	0.033164	k__Bacteriap__Firmicu c__Clostrid	
6	0.739887	2.55866	-1.61988	0.591493	0.000168	0.004077	k__Bacteriap__Firmicu c__Clostrid	
7	0.286856	2.895401	-1.61237	0.771647	1.34E-05	0.000722	k__Bacteriap__Firmicu c__Clostrid	
8	0.215247	0.406017	1.610298	0.605025	5.88E-05	0.002312	k__Bacteriap__Firmicu c__Clostrid	
9	0.909797	3.592456	1.601203	0.199451	0.000538	0.008822	k__Bacteriap__Firmicu c__Clostrid	
10								
11	1	5.991532	-1.58408	0.689066	0.001347	0.016931	k__Bacteriap__Firmicu c__Clostrid	
12	1	2.883441	1.580812	1.609235	0.000833	0.012028	k__Bacteriap__Firmicu c__Clostrid	
13	0.986161	2.352025	1.562521	-1.5285	0.005101	0.039822	k__Bacteriap__Proteokc__Gamma	
14	0.841419	2.474791	-1.5596	0.442035	0.000405	0.00712	k__Bacteriap__Bacteroc__Bactero	
15	0.313644	0.519983	1.55315	0.975359	6.61E-05	0.002369	k__Bacteriap__Firmicu c__Clostrid	
16	0.215247	0.404753	1.526433	-0.10447	5.26E-05	0.002312	k__Bacteriap__Firmicu c__Clostrid	
17	0.909797	2.846573	-1.49775	1.155452	0.005485	0.04116	k__Bacteriap__Firmicu c__Clostrid	
18	0.566494	5.266879	-1.48519	1.993591	0.004983	0.039218	k__Bacteriap__Firmicu c__Clostrid	
19	0.286856	1.145896	1.484789	-0.05135	0.00534	0.040703	k__Bacteriap__Firmicu c__Clostrid	
20	0.909797	2.803725	1.473266	-0.66794	0.005168	0.040019	k__Bacteriap__Bacteroc__Bactero	
21	0.909797	2.230156	-1.46687	0.72349	0.001706	0.020642	k__Bacteriap__Firmicu c__Clostrid	
22	0.075689	0.461764	1.461509	0.428615	1.21E-05	0.000689	k__Bacteriap__Firmicu c__Bacilli	
23								
24	1	6.412459	-1.41622	0.530257	0.006422	0.045376	k__Bacteriap__Firmicu c__Clostrid	
25	0.038038	0.015506	1.41248	0.301052	1.20E-05	0.000689	k__Bacteriap__Firmicu c__Clostrid	
26	0.202465	0.630674	1.402553	-0.16939	4.84E-05	0.002229	k__Bacteriap__Firmicu c__Clostrid	
27								
28	1	5.051607	-1.40085	2.016743	0.00488	0.038723	k__Bacteriap__Bacteroc__Bactero	
29	0.986161	1.522159	1.39571	1.586516	0.000439	0.007584	k__Bacteriap__Firmicu c__Clostrid	
30	0.4991	1.873113	-1.39304	0.847282	0.002683	0.027633	k__Bacteriap__Firmicu c__Clostrid	
31	0.841419	2.61623	-1.39014	-0.41636	0.003997	0.03486	k__Bacteriap__Firmicu c__Clostrid	
32	0.081604	0.27209	1.388144	0.43009	3.94E-05	0.001906	k__Bacteriap__Firmicu c__Bacilli	
33	0.909797	2.429586	-1.37276	-0.47345	0.002245	0.024983	k__Bacteriap__Proteokc__Gamma	
34								
35	1	1.581466	1.356593	1.508918	0.001105	0.014703	k__Bacteriap__Proteokc__Gamma	
36	0.909797	6.47689	-1.34383	2.577625	0.002962	0.029556	k__Bacteriap__Firmicu c__Clostrid	
37	0.738509	1.623961	1.329743	1.451499	6.21E-05	0.002312	k__Bacteriap__Actinobc__Corioba	
38	0.286856	0.900704	1.306861	-0.0949	0.003516	0.033164	k__Bacteriap__Firmicu c__Clostrid	
39	0.4991	1.324008	1.297705	0.383055	0.001109	0.014703	k__Bacteriap__Firmicu c__Clostrid	
40	0.483067	0.882838	1.292168	-3.17056	0.00361	0.033164	k__Bacteriap__Bacteroc__Bactero	
41	0.4991	2.069175	-1.28511	0.362722	6.11E-05	0.002312	k__Bacteriap__Firmicu c__Clostrid	
42	0.40726	0.463635	1.281748	0.046517	0.000215	0.004635	k__Bacteriap__Firmicu c__Clostrid	
43	0.40726	0.56436	1.228464	0.924278	0.00122	0.015965	k__Bacteriap__Firmicu c__Clostrid	
44	0.374944	1.537464	1.228219	1.002462	0.002789	0.028196	k__Bacteriap__Firmicu c__Clostrid	
45								
46	1	2.081117	1.225393	1.714155	0.006688	0.046575	k__Bacteriap__Firmicu c__Clostrid	
47	0.618435	2.794886	-1.22231	0.245177	0.000342	0.006623	k__Bacteriap__Firmicu c__Clostrid	
48								
49	1	2.4473	-1.21291	0.194972	0.002101	0.02393	k__Bacteriap__Bacteroc__Bactero	
50	0.841419	3.045699	-1.20996	1.421874	0.003632	0.033164	k__Bacteriap__Firmicu c__Clostrid	
51	0.286856	2.385438	-1.19115	-0.36788	0.000359	0.006822	k__Bacteriap__Firmicu c__Clostrid	
52	0.157173	1.812163	1.160162	0.699826	0.000262	0.005504	k__Bacteriap__Firmicu c__Clostrid	
53	0.986161	0.814781	1.153297	-2.7484	0.000405	0.00712	k__Bacteriap__Bacteroc__Bactero	
54	0.909797	2.375567	-1.14783	-0.74696	0.006362	0.045285	k__Bacteriap__Proteokc__Gamma	
55	0.313644	1.950848	-1.13698	0.231375	0.001977	0.022952	k__Bacteriap__Bacteroc__Bactero	
56	0.566494	3.599619	-1.12144	0.804254	0.00107	0.014587	k__Bacteriap__Firmicu c__Clostrid	
57	0.909797	2.650982	1.118977	1.706282	0.006316	0.045285	k__Bacteriap__Firmicu c__Clostrid	
58	0.841419	3.823567	1.108765	0.53325	0.003267	0.031948	k__Bacteriap__Firmicu c__Clostrid	
59	0.680806	0.973884	1.102606	-2.46357	0.006098	0.044383	k__Bacteriap__Bacteroc__Bactero	

1							
2	0.739887	3.867421	-1.09222	-0.70348	0.00127	0.016393	k__Bacteriap__Firmicu c__Clostrid
3	0.841419	1.558211	1.0906	0.106551	0.002289	0.025176	k__Bacteriap__Firmicu c__Clostrid
4	0.841419	3.731114	-1.08523	0.476871	0.004736	0.038109	k__Bacteriap__Firmicu c__Clostrid
5	0.909797	2.723157	-1.0766	1.458956	0.001769	0.021143	k__Bacteriap__Firmicu c__Clostrid
6	0.618435	1.967531	-1.07046	0.118835	0.00547	0.04116	k__Bacteriap__Firmicu c__Clostrid
7	0.909797	2.139426	1.068276	2.260118	0.00089	0.012485	k__Bacteriap__Firmicu c__Clostrid
8							
9	0.374944	1.165886	1.056195	1.004866	0.001406	0.0173	k__Bacteriap__Firmicu c__Clostrid
10	0.576208	1.966454	-1.04864	-1.37671	0.004764	0.038109	k__Bacteriap__Proteokc__Gamma
11	0.4991	2.899162	-1.03491	0.349578	0.003725	0.033384	k__Bacteriap__Firmicu c__Clostrid
12	0.738509	0.447186	1.034201	0.695522	0.000747	0.01095	k__Bacteriap__Firmicu c__Clostrid
13	0.618435	1.296912	1.014095	-0.78273	0.004501	0.037239	k__Bacteriap__Bacteroc__Bactero
14	0.739887	1.036051	1.01171	-0.53895	0.003991	0.03486	k__Bacteriap__Bacteroc__Bactero
15							
16	0.286856	0.924407	1.009795	-0.98319	0.002459	0.026211	k__Bacteriap__Firmicu c__Clostrid
17	0.841419	2.27864	-0.99633	0.199631	0.003558	0.033164	k__Bacteriap__Firmicu c__Clostrid
18	0.739887	1.016636	0.995011	1.37911	0.007078	0.048249	k__Bacteriap__Firmicu c__Clostrid
19	0.909797	2.009028	-0.98478	-0.03793	0.004669	0.037977	k__Bacteriap__Bacteroc__Bactero
20	0.626653	0.91768	0.976438	0.683804	0.001804	0.021295	k__Bacteriap__Firmicu c__Clostrid
21	0.986161	1.858998	-0.97607	1.522419	0.00677	0.046813	k__Bacteriap__Firmicu c__Clostrid
22							
23	0.841419	3.30862	-0.97027	0.31756	0.006038	0.044279	k__Bacteriap__Firmicu c__Clostrid
24	1	0.997978	0.969755	0.224042	0.001992	0.022952	k__Bacteriap__Bacteroc__Bactero
25	0.909797	1.046378	0.955688	-0.66164	0.003407	0.032657	k__Bacteriap__Bacteroc__Bactero
26	0.4991	1.693289	-0.95028	0.274595	0.000499	0.008328	k__Bacteriap__Firmicu c__Clostrid
27	0.483067	1.6222	-0.94793	1.913473	0.007267	0.048848	k__Bacteriap__Firmicu c__Clostrid
28	0.249953	0.454801	0.935649	-0.37582	0.004407	0.037239	k__Bacteriap__Bacteroc__Bactero
29							
30	0.896426	2.615257	-0.91958	0.345369	0.000636	0.009766	k__Bacteriap__Firmicu c__Clostrid
31	0.909797	2.041988	-0.90367	-0.88138	0.001412	0.0173	k__Bacteriap__Bacteroc__Bactero
32	0.157173	1.575059	-0.89255	0.438019	0.000332	0.006588	k__Bacteriap__Firmicu c__Clostrid
33	0.909797	1.402738	0.876684	0.82872	0.007255	0.048848	k__Bacteriap__Firmicu c__Clostrid
34	1	1.833694	0.868619	0.915211	0.000215	0.004635	k__Bacteriap__Bacteroc__Bactero
35	0.172504	1.401433	-0.8491	0.534412	0.00449	0.037239	k__Bacteriap__Firmicu c__Clostrid
36	0.739887	1.550671	-0.84498	0.527429	0.002534	0.026661	k__Bacteriap__Firmicu c__Clostrid
37							
38	0.374944	1.571637	-0.84311	0.595678	0.004093	0.035373	k__Bacteriap__Firmicu c__Clostrid
39	0.841419	1.71329	-0.84231	1.317187	0.004644	0.037977	k__Bacteriap__Bacteroc__Bactero
40	0.909797	1.425998	0.841482	0.453297	0.005604	0.041728	k__Bacteriap__Firmicu c__Bacilli
41	1	2.473095	-0.84091	0.694003	0.000553	0.008922	k__Bacteriap__Bacteroc__Bactero
42	0.986161	3.214245	0.825041	-0.52308	0.001305	0.016618	k__Bacteriap__Bacteroc__Bactero
43	0.286856	1.937149	-0.7862	0.612787	0.006683	0.046575	k__Bacteriap__Firmicu c__Clostrid
44							
45	1	2.126769	-0.77463	-0.39794	0.004487	0.037239	k__Bacteriap__Firmicu c__Clostrid
46	0.739887	1.990295	-0.72853	0.078837	0.005294	0.04067	k__Bacteriap__Firmicu c__Clostrid
47	0.374944	0.812177	0.704137	1.014285	0.005745	0.042454	k__Bacteriap__Firmicu c__Bacilli
48	0.4991	0.827536	0.689767	-0.26747	0.002154	0.024249	k__Bacteriap__Bacteroc__Bactero
49	0.841419	2.339427	-0.66322	1.373273	0.006213	0.044881	k__Bacteriap__Firmicu c__Clostrid
50	0.626653	1.784449	-0.59306	0.10312	0.007047	0.048249	k__Bacteriap__Firmicu c__Clostrid
51							
52							
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	Order	Family	Genus	Species	
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2					
3					
4					
5	o_Bacterof	[Parapreg	[Prevot	s__	
6	o_Clostridf	Lachnos	g__	s__	
7	NA	NA	NA	NA	
8					
9	o_Clostridf	Lachnos	g__	s__	
10	o_Bacterof	S24-7	g__	s__	
11	o_Lactobaf	Lactobag	Lactoba	s__	
12	o_Clostridf	Veillone	g__	Anaero	s__
13	o_Spirochf	Spiroch	g__	Trepon	s__
14					
15	o_Clostridf	Christen	g__	s__	
16	o_Spirochf	Spiroch	g__	Trepon	s__
17	o_Clostridf	Rumino	g__	s__	
18	o_Clostridf	Rumino	g__	s__	
19	o_Clostridf		g__	s__	
20	o_Clostridf	Lachnos	g__	Coprocc	s__
21	o_Bacterof	Bacteroi	g__	Bacteros	barnesia
22					
23	o_Clostridf		g__	s__	
24	o_Clostridf	Lachnos	g__	Coprocc	s__
25	o_Clostridf	Veillone	g__	Mitsuok	s__multacida
26	o_Bacterof	S24-7	g__	s__	
27	o_RF32	f__	g__	s__	
28					
29	o_Clostridf		g__	s__	
30	o_Bacterof	Prevote	g__	Prevote	s__
31	o_Bacterof	[Parapreg	[Prevot	s__	
32	o_Clostridf	[Mogibag	[Mogiba	s__	
33	o_GMD14	f__	g__	s__	
34	o_Campylf	Helicob	g__	NA	NA
35	o_Clostridf	Lachnos	g__	s__	
36					
37	o_Bacterof	[Parapreg	[Prevot	s__	
38	o_Clostridf	Rumino	g__	s__	
39	o_Clostridf	Rumino	g__	s__	
40	o_Clostridf	Lachnos	g__	s__	
41	o_Clostridf	Lachnos	g__	Rosebu	s__
42	o_Clostridf	Rumino	g__	s__	
43					
44	o_Bacterof	[Parapreg	[Prevot	s__	
45	o_Clostridf	Rumino	g__	s__	
46	o_Clostridf	Clostridi	g__	NA	NA
47	o_Bacterof		g__	s__	
48	o_Lactobaf	Lactobag	Lactoba	s__	
49	o_Clostridf	Rumino	g__	Oscillos	s__
50	o_Bacterof	Prevote	g__	Prevote	s__
51					
52	o_Clostridf		g__	s__	
53	o_Clostridf	Lachnos	g__	s__	
54	o_Clostridf	Rumino	g__	s__	
55	o_Deferrif	Deferrib	g__	Mucisp	s__schaedleri
56	o_Clostridf	Rumino	g__	s__	
57	o_Enterokf	Enterob	g__	s__	
58	o_Clostridf	Rumino	g__	s__	
59	o_Clostridf	Lachnos	g__	NA	NA
60	o_Clostridf	Lachnos	g__	s__	

1 o__Clostridf__Lachnosg__Dorea s__
 2 o__Clostridf__Ruminoig__ s__
 3 o__Bacterof__[Parapreg__ s__
 4 o__Clostridf__Ruminoig__ s__
 5 o__Clostridf__ g__ s__
 6 o__Clostridf__Ruminoig__Rumino s__
 7 o__Clostridf__ g__ s__
 8 o__Clostridf__Ruminoig__ s__
 9 o__Clostridf__Ruminoig__ s__
 10 o__Clostridf__Veilloneg__Anaero s__
 11 o__Clostridf__Ruminoig__ s__
 12 o__Aeromcf__Succinivg__Succiniv s__
 13 o__Bacterof__Prevotelg__Prevote s__copri
 14 o__Clostridf__ g__ s__
 15 o__Clostridf__ g__ s__
 16 o__Clostridf__ g__ s__
 17 o__Clostridf__ g__ s__
 18 o__Clostridf__ g__ s__
 19 o__Clostridf__ g__ s__
 20 o__Clostridf__ g__ s__
 21 o__Bacterof__S24-7 g__ s__
 22 o__Clostridf__Lachnos NA NA
 23 o__Lactobaf__Lactobag__Lactobas__
 24 o__Clostridf__Veilloneg__Anaero s__
 25 o__Clostridf__Lachnosg__ s__
 26 o__Clostridf__Lachnosg__Coprocc s__
 27 o__Bacterof__Prevotelg__Prevote s__
 28 o__Clostridf__Lachnosg__Coprocc s__
 29 o__Clostridf__ g__ s__
 30 o__Clostridf__Ruminoig__ s__
 31 o__Lactobaf__Streptog__Strepto s__
 32 o__Enterokf__Enterobg__ s__
 33 o__Pasteurf__Pasteurg__Actinob s__porcinus
 34 o__Clostridf__Ruminoig__Oscillos s__
 35 o__Coriobaf__Coriobag__ s__
 36 o__Clostridf__Christeng__ s__
 37 o__Clostridf__Lachnos NA NA
 38 o__Bacterof__[Odorib;g__Odorib s__
 39 o__Clostridf__Lachnosg__Rosebur s__faecis
 40 o__Clostridf__Christeng__ s__
 41 o__Clostridf__Ruminoig__ s__
 42 o__Clostridf__Ruminoig__ s__
 43 o__Clostridf__Peptostig__ s__
 44 o__Clostridf__Ruminoig__Faecalik s__prausnitzii
 45 o__Bacterof__Prevotelg__Prevote s__
 46 o__Clostridf__ g__ s__
 47 o__Clostridf__Lachnosg__Lachno s__
 48 o__Clostridf__Ruminoig__Oscillos s__
 49 o__Bacterof__Bacteroig__Bactero s__
 50 o__Enterokf__Enterobg__ s__
 51 o__Bacterof__Prevotelg__Prevote s__copri
 52 o__Clostridf__Lachnosg__ s__
 53 o__Clostridf__Ruminoig__ s__
 54 o__Clostridf__Ruminoig__ s__
 55 o__Bacterof__Prevotelg__Prevote s__

1 o__Clostridf__Ruminoig__Oscillos s__
 2 o__Clostridf__Clostridig__ s__
 3 o__Clostridf__Ruminoig__ s__
 4 o__Clostridf__ g__ s__
 5 o__Clostridf__Lachnosg__ s__
 6 o__Clostridf__ g__ s__
 7 o__Clostridf__Clostridi NA NA
 8 o__Enterokf__Enterobg__ s__
 9 o__Clostridf__Lachnosg__Rosebu s__
 10 o__Clostridf__ g__ s__
 11 o__Bacterof__Prevotelg__Prevotes__
 12 o__Bacterof__Prevotelg__Prevotes__stercorea
 13 o__Clostridf__Lachnosg__[Rumino s__
 14 o__Clostridf__Ruminoig__Oscillos s__
 15 o__Clostridf__Ruminoig__ s__
 16 o__Bacterof__[Parapreg__[Prevotes__
 17 o__Clostridf__Lachnosg__ s__
 18 o__Clostridf__Lachnosg__Coproccs__
 19 o__Clostridf__Ruminoig__Faecaliks__prausnitzii
 20 o__Bacterof__Prevotelg__Prevotes__
 21 o__Bacterof__Prevotelg__Prevotes__
 22 o__Clostridf__Lachnosg__Rosebu s__faecis
 23 o__Clostridf__Ruminoig__ s__
 24 o__Bacterof__S24-7 g__ s__
 25 o__Clostridf__ g__ s__
 26 o__Bacterof__Prevotelg__Prevotes__
 27 o__Clostridf__Lachnosg__ s__
 28 o__Clostridf__ g__ s__
 29 o__Bacterof__Prevotelg__Prevotes__
 30 o__Clostridf__Lachnosg__ s__
 31 o__Clostridf__ g__ s__
 32 o__Bacterof__ g__ s__
 33 o__Clostridf__Veilloneg__ s__
 34 o__Clostridf__Ruminoig__ s__
 35 o__Clostridf__Ruminoig__ s__
 36 o__Bacterof__Prevotelg__Prevotes__
 37 o__Lactobaf__Lactobag__Lactobas__
 38 o__Bacterof__Prevotelg__Prevotes__copri
 39 o__Bacterof__ g__ s__
 40 o__Clostridf__Ruminoig__Oscillos s__
 41 o__Clostridf__Ruminoig__Faecaliks__prausnitzii
 42 o__Clostridf__Veilloneg__Anaero s__
 43 o__Lactobaf__Lactobag__Lactobas__
 44 o__Bacterof__Prevotelg__Prevotes__copri
 45 o__Clostrid NA NA NA
 46 o__Clostridf__Lachnosg__ s__
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Table S11: Differentially abundant OTUs when comparing the experimental groups at T2.

OTU	+samples in group 0	+samples in group 1	counts in group 0	
	297140	41	20	3577
	1038455	12	8	216
	346606	31	2	895
	74192	20	15	210
	349257	29	19	149
	46910	39	12	777
New.CleanUp.ReferenceOTU8158		22	10	1334
	712142	34	23	395
	471412	5	11	10
New.ReferenceOTU7331		17	11	351
	306124	11	9	18
	157455	21	14	137
New.ReferenceOTU741		23	18	707
	350666	28	19	124
	322004	29	3	1330
New.ReferenceOTU9646		10	2	35
	509416	31	2	205
New.ReferenceOTU8839		42	20	1712
	516159	43	21	3396
New.ReferenceOTU3384		18	0	183
	355246	5	7	35
	16733	15	12	247
	324283	45	19	16072
	518552	16	0	314
New.ReferenceOTU2204		20	3	145
New.ReferenceOTU1712		28	17	347
	309745	16	7	503
New.ReferenceOTU8825		24	19	263
	425675	36	4	539
New.ReferenceOTU2144		15	10	46
New.ReferenceOTU3788		30	5	484
New.ReferenceOTU2058		18	10	56
	846386	17	3	243
	527437	32	17	792
	359779	16	17	58
	46566	24	11	161
New.CleanUp.ReferenceOTU135285		33	14	788
New.ReferenceOTU1755		18	6	98
	297260	22	14	65
	347085	20	3	277
New.ReferenceOTU8056		36	12	552
	335884	8	3	34
New.ReferenceOTU5504		13	6	109
	316037	31	6	215
New.ReferenceOTU6786		20	12	45
New.ReferenceOTU6967		20	7	120
	354461	27	2	153
	329729	10	4	103
	216111	33	9	206

1					
2		533298	33	22	451
3		4358599	12	9	49
4	New.ReferenceOTU471		25	1	214
5	New.ReferenceOTU10083		45	22	2492
6		70580	11	12	37
7		703741	47	23	5309
8	New.ReferenceOTU2171		11	13	23
9	New.ReferenceOTU9622		8	4	86
10		569826	25	12	155
11		109413	7	15	25
12	New.CleanUp.ReferenceOTU86994		39	19	776
13		312490	39	18	676
14	New.CleanUp.ReferenceOTU68137		9	8	18
15	New.CleanUp.ReferenceOTU9889		22	1	44
16	New.ReferenceOTU3326		10	10	16
17	New.ReferenceOTU7634		16	16	41
18	New.ReferenceOTU6997		15	12	41
19		759751	38	15	531
20		40798	38	22	412
21	New.ReferenceOTU6315		9	6	22
22		100852	20	4	87
23		342638	41	21	676
24		515299	29	14	362
25		588197	47	23	4788
26	New.ReferenceOTU6666		11	10	26
27	New.ReferenceOTU10892		15	14	29
28	New.CleanUp.ReferenceOTU107762		35	18	505
29	New.ReferenceOTU3709		41	20	1188
30		29495	38	16	348
31		311173	21	9	85
32		364736	31	4	189
33		558458	28	14	118
34		294053	8	5	15
35		333028	22	13	62
36		323200	21	7	199
37		309433	31	19	119
38		528692	47	22	3446
39	New.ReferenceOTU1797		7	4	12
40	New.ReferenceOTU4568		21	16	88
41		361727	32	5	137
42		539601	20	14	57
43	New.ReferenceOTU2631		35	20	427
44		523751	18	12	57
45		548699	15	6	150
46	New.ReferenceOTU5926		15	2	52
47		362450	8	2	26
48		1106614	21	5	94
49		581003	38	17	217
50		921813	37	18	243
51	New.ReferenceOTU490		19	15	40
52		358104	30	9	141
53	New.ReferenceOTU7356		21	11	139
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2	New.ReferenceOTU6077		36	16	393
3		196392	24	1	65
4		355630	44	20	616
5	New.ReferenceOTU11254		22	8	98
6	New.ReferenceOTU7793		20	14	79
7	New.ReferenceOTU3281		18	6	43
8	New.ReferenceOTU3592		10	4	20
9		295410	43	23	291
10					
11	New.ReferenceOTU10891		13	9	42
12		345899	39	15	232
13	New.ReferenceOTU9226		17	4	42
14	New.ReferenceOTU2232		20	16	49
15		314204	21	6	66
16		359175	30	18	101
17					
18	New.ReferenceOTU3520		10	5	19
19		163857	18	3	47
20		4404459	17	12	38
21	New.ReferenceOTU1512		22	11	34
22		337784	31	12	100
23					
24	New.ReferenceOTU691		31	10	85
25		293717	25	14	105
26		351659	29	18	66
27	New.ReferenceOTU6457		25	16	54
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counts in group 1	oddsRatio	lower	upper	fisherP	fisherAdjP
7035	1.024655598	0.150335353	5.416483148	1	1
460	0.647049387	0.193672178	2.223453517	0.573919776	1
17	19.4310016	3.97083982	191.3081085	6.59E-06	0.001685949
1166	0.400454773	0.121214051	1.240026568	0.125940015	0.610145295
663	0.344126324	0.073294707	1.273885775	0.1024817	0.576236354
44	4.358868037	1.270523064	15.86627555	0.010016466	0.23026356
1940	1.141805381	0.374914159	3.549673976	1	1
1192	0	0	0.553570888	0.003386734	0.128319596
187	0.134684842	0.030245056	0.517229235	0.001547468	0.071957246
509	0.622564982	0.200173137	1.928169167	0.438119526	0.939202385
126	0.480714877	0.143003584	1.618956226	0.259431991	0.846993304
184	0.52416324	0.164248008	1.601638029	0.308799677	0.846993304
381	0.271254745	0.067226969	0.923383949	0.022388017	0.313738926
347	0.315162677	0.067298187	1.161163462	0.06325467	0.482906919
82	10.36830492	2.553039918	62.24578826	0.00011676	0.011944585
56	2.801322924	0.522105799	28.69637148	0.3125217	0.846993304
5	19.4310016	3.97083982	191.3081085	6.59E-06	0.001685949
1461	1.255691239	0.177417938	7.218088052	1	1
188	1.023481407	0.086047775	7.817836869	1	1
0	Inf	3.00463585	Inf	0.000279251	0.021536387
31	0.277941402	0.060001835	1.184170677	0.049846771	0.427499026
484	0.435179946	0.136840544	1.35155211	0.122308217	0.610145295
2912	4.619471525	0.604014947	55.10828275	0.085837779	0.52966281
0	Inf	2.482003523	Inf	0.000711206	0.040173535
4	4.836401815	1.186993438	28.90986405	0.015645486	0.275954002
671	0.524880646	0.142432622	1.728781598	0.294830753	0.846993304
127	1.176966548	0.361812736	4.108560241	1	1
241	0.224330827	0.048118709	0.817538864	0.017618289	0.300391823
25	14.78305119	3.865248849	72.85987586	4.91E-06	0.001685949
52	0.613813274	0.194382201	1.94891013	0.428029389	0.939202385
32	6.1748079	1.798195999	25.2483296	0.001907011	0.083399915
63	0.809403488	0.262003143	2.534230725	0.796216436	1
17	3.7136428	0.898923734	22.33752791	0.052690389	0.431218142
705	0.755943496	0.201930703	2.557598932	0.782699086	1
479	0.187067157	0.049928953	0.616899914	0.002255232	0.0887347
1534	1.136232024	0.373556516	3.484476435	1	1
134	1.50614862	0.460696089	4.834121975	0.5886065	1
16	1.744852178	0.527143877	6.447795154	0.42332826	0.939202385
249	0.570352309	0.179080845	1.741810297	0.315449119	0.846993304
4	4.836401815	1.186993438	28.90986405	0.015645486	0.275954002
90	2.948655879	0.907772515	9.84819157	0.055357215	0.442425238
52	1.361654497	0.28510077	8.835519173	1	1
200	1.082126671	0.312612449	4.10778308	1	1
11	5.345673809	1.621008492	20.02845944	0.002255232	0.0887347
94	0.682830459	0.221200424	2.080763463	0.610036881	1
41	1.680612902	0.528315547	5.790456294	0.434957367	0.939202385
7	13.66602784	2.819346071	133.9063406	8.07E-05	0.011797547
29	1.279330003	0.314031986	6.34011413	1	1
86	3.592807247	1.144923763	11.93523297	0.019145658	0.313738926

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2	293	0.109679078	0.002430551	0.821825304	0.014731806	0.274011591
3	31	0.538381092	0.163164241	1.791963762	0.275663618	0.846993304
4	1	24.06718082	3.341723273	1066.027173	4.50E-05	0.009200403
5	552	1.022413921	0.016596118	20.64920178	1	1
6	90	0.285842047	0.085092526	0.921485883	0.028789723	0.354842004
7	1596	0	0	Inf	1	1
8	55	0.24063964	0.070812227	0.774645779	0.008279651	0.228921161
9	129	0.974703197	0.225136781	4.991568218	1	1
10	105	1.041081351	0.339734574	3.173804982	1	1
11	85	0.097605949	0.024323567	0.346419571	5.65E-05	0.009625267
12	139	1.02595334	0.200337841	4.441744232	1	1
13	162	1.348068255	0.302584271	5.481963592	0.745790669	1
14	23	0.449671852	0.125546369	1.612980646	0.234374307	0.796561182
15	3	18.72935467	2.593703881	830.9903392	0.000294731	0.021536387
16	28	0.357169737	0.104553459	1.193996557	0.089284666	0.53728361
17	82	0.231073659	0.065672046	0.739283621	0.009838205	0.23026356
18	59	0.435179946	0.136840544	1.35155211	0.122308217	0.610145295
19	66	2.223843887	0.619970241	7.965184573	0.234374307	0.796561182
20	409	0.195380753	0.004196077	1.578612164	0.148899766	0.683055722
21	15	0.675019998	0.179433363	2.69297994	0.544734198	1
22	8	3.459333913	0.942583909	16.16842491	0.059389958	0.467353282
23	148	0.654552473	0.059660034	4.085761429	1	1
24	45	1.035218165	0.32327986	3.215773264	1	1
25	1175	0	0	Inf	1	1
26	35	0.402929458	0.120615647	1.327584795	0.101907311	0.576236354
27	92	0.306952918	0.093302296	0.956732223	0.037554398	0.380207454
28	217	0.812579972	0.193311378	2.983436706	1	1
29	614	1.024655598	0.150335353	5.416483148	1	1
30	287	1.830180859	0.488283061	6.687742818	0.366367485	0.914131554
31	11	1.252333206	0.408056621	3.984631339	0.798204569	1
32	24	8.887421063	2.411964238	42.12715386	0.000262634	0.021536387
33	125	0.948079932	0.296938635	2.930534223	1	1
34	18	0.741802202	0.182416388	3.304864449	0.745790669	1
35	83	0.680734331	0.218523172	2.067990371	0.611349299	1
36	8	1.830254326	0.577186538	6.298153454	0.305577163	0.846993304
37	320	0.412815386	0.087286706	1.547680762	0.171510675	0.727578662
38	2533	Inf	0.052396711	Inf	0.328571429	0.853802399
39	6	0.833507715	0.184121481	4.368419811	1	1
40	98	0.358735117	0.104028115	1.132241909	0.074186121	0.489628396
41	19	7.432681389	2.144644841	30.74216584	0.000337553	0.022049697
42	115	0.481353933	0.150404378	1.472621874	0.204308441	0.743799059
43	226	0.442259631	0.071605708	1.91927681	0.354077199	0.901047201
44	141	0.573659124	0.18426389	1.756776415	0.311125058	0.846993304
45	16	1.322850193	0.390991718	4.952193933	0.782699086	1
46	5	4.827848014	0.962916258	47.84767509	0.040142053	0.380207454
47	21	2.132799314	0.376156111	22.41445699	0.479557098	0.961935121
48	9	2.865128641	0.837421479	11.5649797	0.071625033	0.488801796
49	142	1.481437591	0.371335852	5.573099585	0.544734198	1
50	206	1.027395226	0.238809861	3.925220012	1	1
51	47	0.367369023	0.110838338	1.139819274	0.074739309	0.490117395
52	28	2.703893813	0.876390287	8.767741497	0.073105254	0.488801796
53	149	0.882718881	0.28890527	2.70684905	1	1

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2	244	1.424319808	0.391804397	4.945236943	0.56853771		1
3	1	22.1387726	3.072798267	980.9530329	0.000116749	0.011944585	
4	406	2.173142913	0.267360587	17.68932288	0.38674951	0.939202385	
5	24	1.638293431	0.528551958	5.380547631	0.442535441	0.939202385	
6	44	0.481353933	0.150404378	1.472621874	0.204308441	0.743799059	
7	7	1.744852178	0.527143877	6.447795154	0.42332826	0.939202385	
8	9	1.279330003	0.314031986	6.34011413			1
9					1		1
10	326	0	0	3.077137343	0.294970526	0.846993304	
11	17	0.599354869	0.184427821	1.975388597	0.413470137	0.939202385	
12	51	2.561322507	0.698907912	9.510740061	0.131214042	0.610145295	
13	6	2.656270904	0.713423277	12.51491842	0.16488276	0.727578662	
14	62	0.329465362	0.095312548	1.041055266	0.043391939	0.380207454	
15	8	2.262142384	0.691767735	8.306835788	0.19189431	0.743799059	
16	101	0.495002637	0.121467894	1.724106046	0.279559209	0.846993304	
17	8	0.973335261	0.25476279	4.187431771			1
18					1		1
19	3	4.062711429	0.988878483	24.3672529	0.050209577	0.427499026	
20	29	0.524472895	0.167490944	1.612099192	0.301525219	0.846993304	
21	25	0.96053973	0.315079221	2.943474338			1
22					1		1
23	20	1.761116105	0.565985369	5.516375686	0.303516969	0.846993304	
24	15	2.48405093	0.805496583	7.938126005	0.120210778	0.610145295	
25	34	0.73379723	0.230796377	2.246763581	0.614098997		1
26	56	0.452483686	0.111400187	1.566725347	0.188493214	0.743799059	
27	41	0.502088086	0.146061338	1.588398376	0.210007873	0.753817735	
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	(Intercept)	ATB_GROUP_T2ORAL_ATB	ATB_GROUP_T2PARENTERAL_ATB	FECAL_SCORE_T2
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5	4.495165194	3.346794498	1.790009277	-0.174556039
6	2.148456079	3.178195579	1.38575525	-0.982257718
7	3.818019016	-2.928582198	-0.248612612	-0.033189533
8	0.680627531	2.783951579	1.073215478	0.901141878
9	1.4750904	2.665328878	1.038770208	-0.165102739
10	4.105003423	-2.532292442	-0.555301793	-0.166509816
11	1.964579372	2.523588736	1.268277115	0.917483334
12	2.470596252	2.493117267	0.500772519	0.100722737
13	-0.21268348	2.374971095	0.585537024	0.634506352
14	1.978686771	2.350662181	0.062485794	-0.157058366
15	0.598310987	2.348944539	0.557472615	-0.038890392
16	1.069695629	2.303784818	1.413494677	-0.295725146
17	1.688339363	2.262949413	2.583606536	-0.194307018
18	1.38269888	2.209969295	0.645348416	0.149634642
19	2.840248808	-2.166316448	-0.322689811	1.36889166
20	1.316822279	2.120121247	0.615385599	-0.148573862
21	2.703315944	-2.05343511	-0.366693403	-0.34630462
22	3.205908833	2.048892356	0.821332567	-0.090371619
23	4.878976347	-2.047623817	0.483899093	-0.262612281
24	2.91348799	-2.031724206	-0.45767045	-0.788553924
25	0.859391629	2.01289017	1.916107459	-0.854354629
26	0.831970071	1.972566807	1.035191778	0.657929768
27	7.696636362	-1.957379966	-0.93064863	-0.118521747
28	2.670228815	-1.925303715	-0.126966355	-0.637251172
29	2.165409279	-1.925196088	-0.709484828	-0.185351385
30	2.632969324	1.852528681	-0.015308311	-0.412759277
31	0.756292026	1.841040016	3.398166119	-0.595751639
32	1.836326333	1.789402927	0.778388383	0.195510118
33	2.766653223	-1.782882095	0.330149457	0.051422175
34	0.84835828	1.780095097	0.956324594	-0.433724551
35	3.273191989	-1.778875771	-0.784875805	0.245790338
36	1.25580815	1.774651024	0.335721306	-0.514504097
37	2.438701298	-1.772022605	-0.442775841	-0.009650122
38	3.34970005	1.765595859	0.582606091	-0.862421261
39	0.820594271	1.685599147	0.378369085	0.501741117
40	1.306476386	1.674662972	0.718557292	0.177479429
41	3.410490846	-1.674586089	-0.647564497	0.135447976
42	2.303391412	-1.663207367	-0.847382329	-0.208463369
43	1.295295213	1.634732287	0.177103173	0.007071557
44	1.926438017	-1.617097781	-0.099109333	0.494254337
45	3.248400647	-1.585581484	-0.748565306	-0.12424908
46	1.699217185	1.58520008	0.517221151	-1.286714891
47	1.452756566	1.582364127	-0.180920686	1.02038264
48	2.233794806	-1.581475176	-0.326123185	0.296621524
49	1.484018953	1.576836095	0.505105801	-0.880766423
50	1.971592364	-1.534059841	-0.932126466	0.707358625
51	2.465593919	-1.527536163	-0.449348784	-0.532807174
52	1.90633365	-1.50345849	0.073820181	0.153205462
53	2.169099231	-1.500820653	-1.376271933	1.087871022

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2	1.68281779	1.492812205	1.015745318	-0.018837906
3	1.200314485	1.491329962	1.009044992	-0.687216154
4	1.592369245	-1.471379274	0.318211853	0.434042977
5	4.888832454	-1.461674822	-0.095405961	0.280204596
6	0.608550973	1.451276092	0.737207658	0.038627086
7	7.200701293	-1.44102474	-1.616953926	-0.412395536
8	0.897316815	1.43769726	0.324067504	0.009673894
9	1.935113425	1.423051078	-2.300400535	1.905637268
10	0.957773807	1.416706651	1.535350414	-0.244658204
11	0.460226038	1.41042481	0.619819922	0.103811339
12	3.624812785	-1.408283163	-0.401182011	-0.194581331
13	3.46792875	-1.404164988	-0.811553317	0.151006171
14	0.265685303	1.400538131	1.06876632	0.090338572
15	1.380041417	-1.381958238	-0.445999381	0.285535523
16	0.419899856	1.375599638	0.551064593	-0.146669674
17	0.794225992	1.370574459	0.332193552	0.259223421
18	0.92376929	1.353951223	0.669996713	-0.376267259
19	2.788623242	-1.35391599	-0.26531536	0.52562525
20	2.586895429	1.352257578	0.066092591	0.102622904
21	0.356414173	1.331769325	1.327578533	0.151964463
22	1.546159216	-1.330534007	-0.178187862	0.410776753
23	3.183358908	-1.33026508	0.453366255	0.154586992
24	2.841299964	-1.324183221	0.234269	0.19368885
25	6.750719003	-1.318114345	-0.985210466	-0.233510564
26	0.488809285	1.305918208	0.986120809	0.304535198
27	0.47007747	1.29694481	0.438780225	0.355099418
28	3.040303814	-1.291438356	-0.609295839	0.545872597
29	3.673739504	1.287639428	0.359633339	-0.040337999
30	2.792761493	1.284373215	-0.033930475	-0.167209133
31	2.029491055	-1.25248428	-0.911969698	0.098463426
32	2.190637069	-1.249593922	0.40354658	-0.067427845
33	1.453085525	1.248462653	0.891017403	-0.267007965
34	0.849369081	1.242659784	0.29906992	-0.288094757
35	0.712850277	1.23443657	0.56104639	0.618525064
36	2.368348664	-1.230719673	0.198314181	-0.684937405
37	1.733624533	1.204231667	-0.024517005	0.409964289
38	5.348249635	1.193574831	0.036657418	0.273511104
39	0.205863537	1.192859632	1.502084798	-0.213412185
40	1.366193265	1.190186593	0.087255627	0.039735971
41	2.034796582	-1.186462798	-0.10660108	0.227994747
42	1.129755847	1.167105964	-0.149126099	0.540612985
43	2.540549374	1.166763886	0.546473828	-0.231086006
44	1.402604972	1.153233241	-0.433344838	0.379303145
45	1.585525554	-1.142632226	0.580934586	0.929451253
46	1.78130507	-1.124732155	-0.542957817	0.148364199
47	1.848428999	1.120872388	0.067959857	-1.098083213
48	1.587860127	-1.086286413	-0.372536632	0.42158381
49	2.287489451	1.082116346	0.334466991	-0.499534064
50	2.112468088	1.074433593	0.256590241	-0.018075846
51	0.43360749	1.074034859	0.850801385	0.289612036
52	1.530667242	-1.066366534	0.308167557	0.614122749
53	2.5567219	1.060878365	0.604338384	-0.708185964

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2	3.226183045	1.04750782	-0.476216384	-0.350885527
3	1.513791316	-1.036532289	-0.094686557	-0.235063297
4	2.988365092	1.036524689	-0.112255102	0.423879279
5	1.910575607	-1.018802806	-0.846145272	0.333260211
6	1.97686312	-0.998344405	-0.945316642	0.788465051
7	1.592974029	-0.991648217	-0.493234083	-0.055272233
8	0.701658565	0.961048337	0.572995149	0.128920279
9	2.56361199	0.928390686	0.100183015	0.109243254
10	2.043738714	-0.92549818	-0.818219368	-0.081769854
11	2.248198338	-0.877859936	0.079570489	0.13929128
12	1.342501428	-0.869875297	-0.60312505	0.29957281
13	1.245024114	0.863639146	0.246429532	-0.144391262
14	1.912681816	-0.845149842	-0.109304381	-0.500562303
15	1.674562003	0.829315185	0.164672821	-0.077148122
16	1.27121066	-0.814131378	-0.616563237	0.689687618
17	1.588727178	-0.813544106	0.520780625	-0.387481189
18	1.015525078	0.785199014	0.770962288	-0.382700119
19	0.868051638	0.770211564	0.289989482	-0.05783177
20	1.951015311	-0.744804959	-0.150288807	0.047336722
21	1.751093647	-0.732677118	-0.044356607	-0.114156029
22	2.045826127	-0.724210137	-0.087197865	-0.145890756
23	1.075296325	0.715447805	0.455143085	0.189445609
24	0.915968938	0.650543749	0.511241983	0.201365875
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normFactor_T2	pvalues	adjPvalues	Kingdom	Phylum	Class
2.192159336	1.03E-07	5.27E-05	k__Bacteria	p__Spirochaetes	c__Spirochaetes
2.658614113	4.56E-06	0.000358891	k__Bacteria	p__Spirochaetes	c__Spirochaetes
1.050550256	3.08E-05	0.001431556	k__Bacteria	p__Firmicutes	c__Clostridia
-1.081777139	3.30E-06	0.000307022	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
-0.969830992	4.13E-07	7.02E-05	k__Bacteria	p__Firmicutes	c__Clostridia
-0.526043415	1.68E-07	5.73E-05	k__Bacteria	p__Firmicutes	c__Clostridia
3.428615487	0.0042135	0.038832528	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
0.206262628	4.80E-07	7.02E-05	k__Bacteria	p__Firmicutes	c__Clostridia
-0.997607526	4.45E-07	7.02E-05	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
3.891281354	0.000970696	0.016279056	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
0.689007869	2.50E-07	6.39E-05	k__Bacteria	p__Firmicutes	c__Clostridia
-1.004643364	4.33E-06	0.000358891	k__Bacteria	p__Firmicutes	c__Clostridia
3.625176636	9.57E-05	0.003375339	k__Bacteria	p__Firmicutes	c__Clostridia
0.019617448	8.22E-07	0.000105094	k__Bacteria	p__Firmicutes	c__Clostridia
3.530976366	0.003113379	0.032834915	k__Bacteria	p__Firmicutes	c__Clostridia
3.002488925	0.000126416	0.004041358	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
-0.983458347	1.58E-06	0.000179703	k__Bacteria	p__Firmicutes	c__Clostridia
0.401453036	0.001689629	0.023138424	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
-1.445115149	0.000589298	0.012743124	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
1.359305653	0.000140275	0.00433652	k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria
0.052845144	8.35E-06	0.000502578	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
3.42558288	0.002342355	0.027229882	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
-2.947388505	0.002301714	0.027064983	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
1.343521089	0.00405139	0.038023598	k__Bacteria	p__Proteobacteria	c__Alphaproteobacteria
-2.335091219	2.91E-06	0.000297322	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
2.605133256	0.003232566	0.03374403	k__Bacteria	p__Proteobacteria	c__Deltaproteobacteria
1.626824428	0.006050297	0.049972246	k__Bacteria	p__Firmicutes	c__Clostridia
3.6491586	6.78E-06	0.000462418	k__Bacteria	p__Firmicutes	c__Clostridia
-0.700455617	0.001387469	0.019721387	k__Bacteria	p__Firmicutes	c__Clostridia
0.885539153	2.27E-05	0.001159079	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
1.95587391	0.002266571	0.02696165	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
0.975245636	3.73E-05	0.001582118	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
-2.34770722	0.002558159	0.029077737	k__Bacteria	p__Firmicutes	c__Clostridia
0.555205996	0.005160716	0.044364806	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
-0.513230179	0.000599552	0.012743124	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
2.414156105	0.006057242	0.049972246	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
-3.2511598	0.000655657	0.012864197	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
-2.898559832	2.52E-08	2.58E-05	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
0.545909652	0.000431692	0.010514791	k__Bacteria	p__Proteobacteria	c__Epsilonproteobacteria
4.894384765	0.000193315	0.005650312	k__Bacteria	p__Firmicutes	c__Clostridia
-3.165173554	0.000738057	0.013982075	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
1.418799435	0.000375675	0.009637005	k__Bacteria	p__Firmicutes	c__Clostridia
4.706130454	0.001030607	0.016735088	k__Bacteria	p__Firmicutes	c__Clostridia
1.019535381	0.000269701	0.007456859	k__Bacteria	p__Firmicutes	c__Clostridia
-0.449756099	4.64E-05	0.001827176	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
-1.082302684	0.000452164	0.010757298	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
0.322851185	0.000546466	0.012152923	k__Bacteria	p__Firmicutes	c__Clostridia
-4.671677489	0.002010547	0.025392464	k__Bacteria	p__Firmicutes	c__Clostridia
0.126251259	0.00042121	0.010509692	k__Bacteria	p__Firmicutes	c__Clostridia

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2	1.387415171	0.002949529	0.032413178	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
3	0.732531128	7.35E-05	0.002783282	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
4	3.259064537	0.00217313	0.026465619	k__Bacteria	p__Firmicutes	c__Clostridia
5	-2.645042036	0.001762989	0.023523039	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
6	-1.25161967	0.000895246	0.015790281	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
7	-0.138491556	0.000376813	0.009637005	k__Bacteria	p__Firmicutes	c__Bacilli
8	1.841836321	5.00E-06	0.000365657	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
9	5.753763273	0.005223847	0.044533293	k__Bacteria	p__Spirochaetes	c__Spirochaetes
10	2.074327989	0.001196766	0.018212685	k__Bacteria	p__Firmicutes	c__Clostridia
11	-0.431859242	0.000882912	0.015790281	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
12	-3.00549913	0.000504834	0.011627384	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
13	0.807017614	0.004813736	0.042452174	k__Bacteria	p__Firmicutes	c__Clostridia
14	-0.107967132	2.88E-05	0.001401371	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
15	0.043956477	2.05E-05	0.001102848	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
16	0.787816962	1.52E-05	0.000864795	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
17	1.308037991	3.24E-05	0.001441959	k__Bacteria	p__Firmicutes	c__Clostridia
18	-0.545947462	0.000622831	0.012743124	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
19	1.162249059	0.003621036	0.036676429	k__Bacteria	p__Firmicutes	c__Clostridia
20	0.846551214	0.003680063	0.036837979	k__Bacteria	p__Firmicutes	c__Clostridia
21	0.883638948	3.87E-05	0.001582118	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
22	0.346309694	0.001884643	0.02471782	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
23	-2.722852915	0.000926163	0.01605872	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
24	0.498672311	0.002067377	0.025685437	k__Bacteria	p__Firmicutes	c__Clostridia
25	1.382562169	0.000511468	0.011627384	k__Bacteria	p__Firmicutes	c__Bacilli
26	0.621556436	7.87E-06	0.000502578	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
27	-0.195431038	0.000956891	0.016279056	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
28	-1.687828365	0.005922582	0.049873625	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
29	4.174165838	0.002916109	0.032413178	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
30	2.429311974	0.000844437	0.015426057	k__Bacteria	p__Firmicutes	c__Clostridia
31	0.393748866	0.000112488	0.003835848	k__Bacteria	p__Proteobacteria	c__Epsilonproteobacteria
32	-1.600090417	0.003709005	0.036837979	k__Bacteria	p__Firmicutes	c__Clostridia
33	-0.265423732	0.003750292	0.036850073	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
34	1.882450176	0.00012188	0.004022039	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
35	0.266631074	9.01E-05	0.003291657	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
36	-1.22424193	0.003296716	0.033933691	k__Bacteria	p__Firmicutes	c__Erysipelotrichi
37	-0.313740723	0.001360477	0.019721387	k__Bacteria	p__Firmicutes	c__Clostridia
38	2.483695315	0.002978337	0.032413178	k__Bacteria	p__Firmicutes	c__Clostridia
39	0.01441269	0.000226408	0.006433757	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
40	1.889567297	0.00116496	0.018212685	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
41	0.11265329	0.001028657	0.016735088	k__Bacteria	p__Firmicutes	c__Clostridia
42	0.132174874	0.001770551	0.023523039	k__Bacteria	p__Firmicutes	c__Clostridia
43	3.613193835	0.003317076	0.033933691	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
44	1.354643707	0.004924524	0.043058014	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
45	2.431656511	0.003068615	0.03269993	k__Bacteria	p__Proteobacteria	c__Epsilonproteobacteria
46	2.316327221	0.000307752	0.008284995	k__Bacteria	p__Firmicutes	c__Clostridia
47	2.494656827	0.00223193	0.026861933	k__Bacteria	p__Firmicutes	c__Clostridia
48	1.212643529	0.003782266	0.036850073	k__Bacteria	p__Firmicutes	c__Clostridia
49	1.478381027	0.001696365	0.023138424	k__Bacteria	p__Firmicutes	c__Clostridia
50	2.694215979	0.001961806	0.025211094	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
51	0.27902839	0.000144127	0.00433652	k__Bacteria	p__Firmicutes	c__Clostridia
52	-1.525329503	0.000619085	0.012743124	k__Bacteria	p__Firmicutes	c__Clostridia
53	-1.718942431	0.00242277	0.027848239	k__Bacteria	p__Bacteroidetes	c__Bacteroidia

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2	2.904018725	0.003049201	0.03269993	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
3	1.470688494	0.000666474	0.012864197	k__Bacteria	p__Firmicutes	c__Clostridia
4	2.628784441	0.001388016	0.019721387	k__Bacteria	p__Firmicutes	c__Clostridia
5	-1.309466854	0.001210618	0.018212685	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
6	0.27151525	0.000659392	0.012864197	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
7	-0.711459729	0.00083012	0.015426057	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
8	1.327188459	0.004405841	0.03988651	k__Bacteria	p__Firmicutes	c__Clostridia
9	-0.31570296	0.00208396	0.025685437	k__Bacteria	p__Firmicutes	c__Clostridia
10	-1.232089261	0.001074115	0.017169064	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
11	-2.10832616	0.004035617	0.038023598	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
12	1.563260343	0.001971542	0.025211094	k__Bacteria	p__Firmicutes	c__Clostridia
13	0.127036151	0.003954545	0.037905146	Unassigned	NA	NA
14	-0.006238675	0.004257557	0.038888219	k__Bacteria	p__Firmicutes	c__Clostridia
15	-0.653930346	0.004166121	0.038744928	k__Bacteria	p__Firmicutes	c__Clostridia
16	0.656085782	0.004689203	0.042079425	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
17	0.173061298	0.002718838	0.030564524	k__Bacteria	p__Proteobacteria	c__Gammaproteobacteria
18	0.627472203	0.003964663	0.037905146	k__Bacteria	p__Firmicutes	c__Clostridia
19	0.965399513	0.001443856	0.02023377	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
20	-0.032571709	0.001182471	0.018212685	k__Bacteria	p__Firmicutes	c__Clostridia
21	-0.298962821	0.004780431	0.042452174	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
22	-1.914757377	0.005947783	0.049873625	k__Bacteria	p__Bacteroidetes	c__Bacteroidia
23	0.59693026	0.001294681	0.019195047	k__Bacteria	p__Firmicutes	c__Clostridia
24	0.949784082	0.005032092	0.043625682	Unassigned	NA	NA
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Order	Family	Genus	Species
o__Spirochaetales	f__Spirochaetaceae	g__Treponema	s__
o__Spirochaetales	f__Spirochaetaceae	g__Treponema	s__
o__Clostridiales	f__Lachnospiraceae	g__Coprococcus	s__
o__Pasteurellales	f__Pasteurellaceae	g__Actinobacillus	s__
o__Clostridiales	f__Lachnospiraceae	g__Lachnospira	s__
o__Clostridiales	f__Ruminococcaceae	g__	s__
o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
o__Clostridiales	f__Ruminococcaceae	g__	s__
o__Pasteurellales	f__Pasteurellaceae	g__Actinobacillus	s__
o__Bacteroidales	f__Bacteroidaceae	g__Bacteroides	s__barnesiae
o__Clostridiales	f__Veillonellaceae	g__Mitsuokella	s__multacida
o__Clostridiales	f__Ruminococcaceae	g__	s__
o__Clostridiales	f__Veillonellaceae	g__Anaerovibrio	s__
o__Clostridiales	f__	g__	s__
o__Clostridiales	f__Ruminococcaceae	g__	s__
o__Bacteroidales	f__Bacteroidaceae	g__Bacteroides	s__
o__Clostridiales	f__Lachnospiraceae	NA	NA
o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]	s__
o__Aeromonadales	f__Succinivibrionaceae	g__Succinivibrio	s__
o__RF32	f__	g__	s__
o__Bacteroidales	f__[Odoribacteraceae]	g__Butyricimonas	s__
o__Bacteroidales	f__	g__	s__
o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
o__RF32	f__	g__	s__
o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
o__GMD14H09	f__	g__	s__
o__Clostridiales	f__Ruminococcaceae	g__	s__
o__Clostridiales	f__[Mogibacteriaceae]	g__	s__
o__Clostridiales	f__Lachnospiraceae	g__Coprococcus	s__
o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__stercorea
o__Bacteroidales	f__S24-7	g__	s__
o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
o__Clostridiales	f__Lachnospiraceae	g__Anaerostipes	s__
o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]	s__
o__Pasteurellales	f__Pasteurellaceae	g__Actinobacillus	s__
o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
o__Campylobacterales	f__Campylobacteraceae	g__Campylobacter	s__
o__Clostridiales	f__Ruminococcaceae	g__	s__
o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
o__Clostridiales	f__Christensenellaceae	g__	s__
o__Clostridiales	f__Lachnospiraceae	g__	s__
o__Clostridiales	f__Lachnospiraceae	g__Coprococcus	s__
o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
o__Clostridiales	f__Lachnospiraceae	g__	s__
o__Clostridiales	f__Ruminococcaceae	g__	s__
o__Clostridiales	f__Lachnospiraceae	g__	s__

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2	o__Aeromonadales	f__Succinivibrionaceae	g__Succinivibrio	s__
3	o__Bacteroidales	f__S24-7	g__	s__
4	o__Clostridiales	f__Ruminococcaceae	g__Ruminococcus	s__
5	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
6	o__Pasteurellales	f__Pasteurellaceae	g__Actinobacillus	s__porcinus
7	o__Lactobacillales	f__Lactobacillaceae	g__Lactobacillus	s__
8	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
9	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
10	o__Spirochaetales	f__Spirochaetaceae	g__Treponema	s__
11	o__Clostridiales	f__Ruminococcaceae	g__Oscillospira	s__
12	o__Pasteurellales	f__Pasteurellaceae	g__Actinobacillus	s__porcinus
13	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
14	o__Clostridiales	f__	g__	s__
15	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]	s__
16	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
17	o__Bacteroidales	f__Rikenellaceae	NA	NA
18	o__Clostridiales	f__[Mogibacteriaceae]	g__Anaerovorax	s__
19	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
20	o__Clostridiales	f__Lachnospiraceae	g__	s__
21	o__Clostridiales	f__Ruminococcaceae	g__	s__
22	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]	s__
23	o__Bacteroidales	f__RF16	g__	s__
24	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
25	o__Clostridiales	f__	g__	s__
26	o__Lactobacillales	f__Lactobacillaceae	g__Lactobacillus	s__
27	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]	s__
28	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]	s__
29	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]	s__
30	o__Bacteroidales	f__Porphyromonadaceae	g__Parabacteroides	s__
31	o__Clostridiales	f__Ruminococcaceae	g__	s__
32	o__Campylobacterales	f__Helicobacteraceae	g__Helicobacter	NA
33	o__Clostridiales	f__	g__	s__
34	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
35	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
36	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
37	o__Erysipelotrichales	f__Erysipelotrichaceae	g__p-75-a5	s__
38	o__Clostridiales	f__Lachnospiraceae	g__Lachnospira	s__
39	o__Clostridiales	f__Lachnospiraceae	g__	s__
40	o__Bacteroidales	f__p-2534-18B5	g__	s__
41	o__Bacteroidales	f__S24-7	g__	s__
42	o__Clostridiales	f__	g__	s__
43	o__Clostridiales	f__Lachnospiraceae	g__	s__
44	o__Bacteroidales	f__Porphyromonadaceae	g__Parabacteroides	s__
45	o__Aeromonadales	f__Succinivibrionaceae	g__Ruminobacter	s__
46	o__Campylobacterales	f__Helicobacteraceae	g__	s__
47	o__Clostridiales	f__	g__	s__
48	o__Clostridiales	f__	g__	s__
49	o__Clostridiales	f__Lachnospiraceae	g__	s__
50	o__Clostridiales	f__	g__	s__
51	o__Clostridiales	f__Lachnospiraceae	g__	s__
52	o__Clostridiales	f__	g__	s__
53	o__Bacteroidales	f__Porphyromonadaceae	g__Parabacteroides	s__
54	o__Clostridiales	f__Ruminococcaceae	g__Oscillospira	s__
55	o__Clostridiales	f__Lachnospiraceae	g__	s__
56	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri

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2	o__Bacteroidales	f__[Paraprevotellaceae]	g__	s__
3	o__Clostridiales	f__Ruminococcaceae	g__	s__
4	o__Clostridiales	f__Lachnospiraceae	g__	s__
5	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__
6	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
7	o__Bacteroidales	f__S24-7	g__	s__
8	o__Clostridiales	f__Lachnospiraceae	g__	s__
9	o__Clostridiales	f__	g__	s__
10	o__Clostridiales	f__	g__	s__
11	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__stercorea
12	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
13	o__Clostridiales	f__[Mogibacteriaceae]	g__Anaerovorax	s__
14	NA	NA	NA	NA
15	o__Clostridiales	f__Clostridiaceae	g__	s__
16	o__Clostridiales	f__Ruminococcaceae	g__	s__
17	o__Clostridiales	f__Ruminococcaceae	g__	s__
18	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
19	o__Aeromonadales	f__Succinivibrionaceae	g__Succinivibrio	s__
20	o__Clostridiales	f__	g__	s__
21	o__Bacteroidales	f__Porphyromonadaceae	g__Parabacteroides	s__
22	o__Clostridiales	f__[Mogibacteriaceae]	g__	s__
23	o__Clostridiales	f__[Mogibacteriaceae]	g__	s__
24	o__Bacteroidales	f__S24-7	g__	s__
25	o__Bacteroidales	f__Prevotellaceae	g__Prevotella	s__copri
26	o__Clostridiales	f__Lachnospiraceae	g__	s__
27	NA	NA	NA	NA
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Table S12: Differentially abundant (DA) OTUs when comparing P (parenteral administrated) vs. C (con

OTU	+samples in group 0	+samples in group 1	counts in group 0
	309745	2	14
New.ReferenceOTU741		8	15
New.ReferenceOTU214		2	10
New.ReferenceOTU8750		12	12
	318997	2	11
	30569	13	11
	24271	8	18
New.ReferenceOTU8969		8	8
New.ReferenceOTU3115		15	13
	703741	24	23
	297140	21	20
	305187	17	18
New.ReferenceOTU10736		8	4
	581474	24	21
New.ReferenceOTU10893		2	8
	300123	15	15
	298358	17	13
New.ReferenceOTU9646		3	7
	99414	4	15
	569826	9	16
	196800	8	5
	510286	5	9
	588216	5	6
	530928	14	10
	197539	11	3
New.ReferenceOTU4443		12	11
	157455	9	12
New.ReferenceOTU3800		6	5
	589852	24	23
	340809	10	15
	367813	8	8
New.CleanUp.ReferenceOTU127916		12	7
	1026524	8	10
	577406	4	9
	4453903	5	9
	302975	14	7
	70580	3	8
New.ReferenceOTU10891		8	5
New.ReferenceOTU6230		10	17
New.ReferenceOTU1755		12	6
	555101	9	16
	588197	24	23
New.CleanUp.ReferenceOTU121714		20	22
New.ReferenceOTU8919		16	16
New.ReferenceOTU2200		4	7
	175377	5	10
New.ReferenceOTU4092		11	6
	4334844	17	11
New.ReferenceOTU490		4	15

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2		333028	8	14
3	New.ReferenceOTU121		11	13
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2 **trol) group at T2. DA OTUs were used to be plotted in the Venn diagram (Figure 4).**
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counts in group 1	oddsRatio	lower	upper	fisherP	fisherAdjP
490	0.06276304	0.005798061	0.354174605	0.000178525	0.088370071
643	0.274825054	0.066922494	1.033520731	0.042219902	0.946870624
258	0.123818079	0.011460531	0.71052471	0.007840548	0.581704602
589	0.918366454	0.251477399	3.334965614	1	1
84	0.104437924	0.009711672	0.592675367	0.003351363	0.482234191
171	1.282271981	0.354008093	4.716612249	0.773240215	1
157	0.145803078	0.03010243	0.59715696	0.003156959	0.482234191
59	0.938805537	0.236886687	3.713680194	1	1
337	1.275260714	0.342414377	4.824107814	0.770160207	1
1211	0	0	Inf	1	1
2002	1.048932019	0.125256502	8.785856462	1	1
1005	0.680282356	0.140692727	3.058911126	0.7399675	1
4	2.331630361	0.507725329	12.64004132	0.317659078	1
674	Inf	0.197543073	Inf	0.234042553	0.950278054
107	0.176929317	0.016138635	1.058331175	0.036329609	0.946870624
522	0.891120544	0.228292071	3.43115159	1	1
523	1.843134486	0.478812772	7.4691501	0.371468812	1
30	0.334419902	0.04816734	1.754854189	0.168091512	0.950278054
409	0.112888198	0.020519085	0.492893119	0.001022224	0.253000498
134	0.270660639	0.065137014	1.02368544	0.041463591	0.946870624
11	1.777545338	0.411222286	8.437402558	0.517082499	1
38	0.417364627	0.08869861	1.757139351	0.212384552	0.950278054
27	0.750302055	0.150856017	3.56732841	0.7399675	1
28	1.796635701	0.495105474	6.765740791	0.386809339	1
3	5.430091142	1.139432814	36.15503591	0.024300894	0.891032788
83	1.088889948	0.299853167	3.97650049	1	1
119	0.557139615	0.14669039	2.037343837	0.385159207	1
25	1.195355129	0.251330697	5.937937908	1	1
1375	0	0	Inf	1	1
75	0.389158057	0.098913414	1.435550297	0.14680683	0.946870624
72	0.938805537	0.236886687	3.713680194	1	1
32	2.244953847	0.59655991	9.031719776	0.237523899	0.950278054
45	0.656045788	0.168535033	2.475431645	0.555643067	1
30	0.319131289	0.059392258	1.428737661	0.11071771	0.946870624
36	0.417364627	0.08869861	1.757139351	0.212384552	0.950278054
16	3.117670261	0.829685399	12.73715914	0.079770223	0.946870624
28	0.275581692	0.040330739	1.393901187	0.093307729	0.946870624
6	1.777545338	0.411222286	8.437402558	0.517082499	1
113	0.260148539	0.060278381	1.005122047	0.03921026	0.946870624
10	2.769170687	0.715454292	11.78766091	0.135095437	0.946870624
69	0.270660639	0.065137014	1.02368544	0.041463591	0.946870624
1569	0	0	Inf	1	1
79	0.233846042	0.004423749	2.625878821	0.34751773	1
155	0.877490607	0.213144263	3.543052417	1	1
20	0.464869715	0.084066921	2.220008841	0.317659078	1
41	0.350254908	0.074956751	1.447178164	0.12458137	0.946870624
7	2.352340926	0.602886659	10.01131017	0.227018416	0.950278054
37	2.59298661	0.686178041	10.53178118	0.142453803	0.946870624
34	0.112888198	0.020519085	0.492893119	0.001022224	0.253000498

45	0.32972193	0.082300049	1.226502157	0.081980221	0.946870624
34	0.6569243	0.176611823	2.378916274	0.563923491	1

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(Intercept)	ATB_GROUP_T2_PARENTERALvsCONTROLPARENTERAL_ATB
0.770094979	3.105497246
1.721502283	2.771720525
0.693638253	2.758807639
1.76764105	2.146735341
0.351848346	2.125637389
4.276494264	-2.043509236
0.934936399	2.014508747
0.518689588	1.964718039
1.433843997	1.886214585
7.092577915	-1.82021512
4.591908151	1.77128744
2.562427857	1.766102417
2.20986121	-1.717719655
6.087964254	-1.696569881
0.894694813	1.667318659
2.161269558	1.633193386
2.570205333	1.594624404
0.598518469	1.578198516
1.41100255	1.5781805
1.065289969	1.485905802
2.295039749	-1.437079022
0.53853511	1.423856867
1.117368667	1.407952217
2.693083659	-1.368330683
1.739509226	-1.358145741
1.025636101	1.298734265
0.94856365	1.296740561
0.916004446	1.273470412
6.724484843	-1.250642222
1.086970708	1.230205285
1.790619647	1.203530741
0.957712176	1.186409862
1.169302758	1.182674766
0.424592987	1.160030826
0.71093082	1.158319652
2.185425387	-1.148050972
0.636240092	1.13922322
1.879092479	-1.098819826
1.294993052	1.091839951
2.103550809	-1.085113621
1.090660071	1.070015849
6.810770402	-1.063250289
2.933002491	-1.057266299
1.729728867	1.05524742
0.755756206	1.04510257
0.714914237	1.040548278
1.821250785	-0.986987513
2.565051604	-0.965710085
0.577622322	0.957112785

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normFactor_T2_PARENTERALvsCONTROL	pvalues	adjPvalues	Kingdom	Phylum
2.247344446	5.73E-06	0.000944711	k__Bacteria	p__Firmicutes
3.993814343	5.64E-07	0.000139688	k__Bacteria	p__Firmicutes
2.038584095	3.15E-05	0.00346867	k__Bacteria	p__Proteobacteria
3.440175074	7.43E-05	0.00612986	k__Bacteria	p__Firmicutes
0.49952765	1.85E-06	0.000365735	k__Bacteria	p__Firmicutes
-1.325720526	0.000449502	0.016481755	k__Bacteria	p__Proteobacteria
1.394794035	3.54E-08	3.51E-05	k__Bacteria	p__Firmicutes
-1.129198139	2.92E-07	0.000115347	k__Bacteria	p__Bacteroidetes
-1.533597546	0.000125397	0.008276171	k__Bacteria	p__Firmicutes
0.376537859	3.50E-07	0.000115347	k__Bacteria	p__Firmicutes
2.884121501	0.000760097	0.023515487	k__Bacteria	p__Spirochaetes
-0.437671183	0.001330806	0.034671001	k__Bacteria	p__Firmicutes
-0.58100253	1.73E-05	0.002145921	k__Bacteria	p__Bacteroidetes
0.339020801	0.000164618	0.008577473	k__Bacteria	p__Firmicutes
2.672272605	0.001575116	0.037127744	k__Bacteria	p__Spirochaetes
2.292880111	0.001555942	0.037127744	k__Bacteria	p__Firmicutes
3.352163647	0.002314271	0.046757727	k__Bacteria	p__Bacteroidetes
0.967051904	1.04E-05	0.001475033	k__Bacteria	p__Bacteroidetes
-3.112387947	0.002096421	0.044006145	k__Bacteria	p__Firmicutes
1.164943875	9.75E-05	0.007240214	k__Bacteria	p__Firmicutes
3.414410727	0.000544389	0.0185843	k__Bacteria	p__Bacteroidetes
0.503291641	4.39E-05	0.00395411	k__Bacteria	p__Firmicutes
1.182969879	0.000241948	0.010586142	k__Bacteria	p__Proteobacteria
0.823831416	0.000206723	0.010103994	k__Bacteria	p__Firmicutes
0.660393147	0.000163251	0.008577473	k__Bacteria	p__Firmicutes
1.218352711	0.000245941	0.010586142	k__Bacteria	p__Firmicutes
-0.754390717	0.00205508	0.044006145	k__Bacteria	p__Firmicutes
0.754421147	0.000871933	0.025388631	k__Bacteria	p__Bacteroidetes
0.726710447	0.000675307	0.021566261	k__Bacteria	p__Firmicutes
0.313142391	4.17E-05	0.00395411	k__Bacteria	p__Firmicutes
0.770258384	0.001829776	0.041169949	k__Bacteria	p__Firmicutes
-0.666022739	0.00016078	0.008577473	k__Bacteria	p__Bacteroidetes
0.992683243	0.000102387	0.007240214	k__Bacteria	p__Firmicutes
0.172678687	0.00036002	0.014179074	k__Bacteria	p__Firmicutes
0.546181555	0.000658339	0.021566261	k__Bacteria	p__Firmicutes
0.283254285	0.001007072	0.028314016	k__Bacteria	p__Firmicutes
0.058134004	0.001879739	0.041354249	k__Bacteria	p__Proteobacteria
-1.288337973	0.001248711	0.033411454	k__Bacteria	p__Bacteroidetes
1.049192698	0.001029601	0.028314016	k__Bacteria	p__Firmicutes
-2.494236874	0.000214327	0.010103994	k__Bacteria	p__Bacteroidetes
1.298019837	0.000155245	0.008577473	k__Bacteria	p__Firmicutes
1.943483302	0.000851402	0.025388631	k__Bacteria	p__Firmicutes
-0.918197568	0.001378485	0.034992304	k__Bacteria	p__Bacteroidetes
0.302241631	0.00252081	0.048933379	k__Bacteria	p__Firmicutes
0.610850564	0.001638243	0.037717688	k__Bacteria	p__Bacteroidetes
0.742067715	0.002133631	0.044006145	k__Bacteria	p__Firmicutes
0.518738055	0.000499738	0.017669297	k__Bacteria	p__Bacteroidetes
0.980698837	0.001555788	0.037127744	k__Bacteria	p__Firmicutes
0.114031909	0.00031999	0.013199601	k__Bacteria	p__Firmicutes

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2 0.413736862 0.002484052 0.048933379 k__Bacteria p__Bacteroidetes
3 -0.343241678 0.00037238 0.014179074 k__Bacteria p__Bacteroidetes
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Class	Order	Family	Genus
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
c__Clostridia	o__Clostridiales	f__Veillonellaceae	g__Anaerovibrio
c__Deltaproteobacteria	o__Desulfovibrionales	f__Desulfovibrionaceae	g__Desulfovibrio
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__Coprococcus
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Ruminococcus
c__Deltaproteobacteria	o__Desulfovibrionales	f__Desulfovibrionaceae	g__Desulfovibrio
c__Bacilli	o__Lactobacillales	f__Lactobacillaceae	g__Lactobacillus
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Clostridia	o__Clostridiales	f__	g__
c__Bacilli	o__Lactobacillales	f__Lactobacillaceae	g__Lactobacillus
c__Spirochaetes	o__Spirochaetales	f__Spirochaetaceae	g__Treponema
c__Clostridia	o__Clostridiales	f__	g__
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Bacilli	o__Lactobacillales	f__Lactobacillaceae	g__Lactobacillus
c__Spirochaetes	o__Spirochaetales	f__Spirochaetaceae	g__Treponema
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__Coprococcus
c__Bacteroidia	o__Bacteroidales	f__	g__
c__Bacteroidia	o__Bacteroidales	f__Bacteroidaceae	g__Bacteroides
c__Clostridia	o__Clostridiales	f__Christensenellaceae	g__
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Oscillospira
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
c__Gammaproteobacteria	o__Enterobacteriales	f__Enterobacteriaceae	g__
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Ruminococcus
c__Clostridia	o__Clostridiales	f__	g__
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Oscillospira
c__Clostridia	o__Clostridiales	f__Lachnospiraceae	g__Dorea
c__Clostridia	o__Clostridiales	f__	g__
c__Bacilli	o__Lactobacillales	f__Lactobacillaceae	g__Lactobacillus
c__Gammaproteobacteria	o__Pasteurellales	f__Pasteurellaceae	g__Actinobacillus
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Clostridia	o__Clostridiales	f__	g__
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
c__Bacilli	o__Lactobacillales	f__Lactobacillaceae	g__Lactobacillus
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__
c__Bacteroidia	o__Bacteroidales	f__Prevotellaceae	g__Prevotella
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Oscillospira
c__Bacteroidia	o__Bacteroidales	f__[Paraprevotellaceae]	g__[Prevotella]
c__Clostridia	o__Clostridiales	f__	g__
c__Clostridia	o__Clostridiales	f__Ruminococcaceae	g__Oscillospira

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2 c__Bacteroidia o__Bacteroidales f__Prevotellaceae g__Prevotella
3 c__Bacteroidia o__Bacteroidales f__[Paraprevotellaceae] g__[Prevotella]
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- 47 s__porcinus
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Table S13: Differentially abundant (DA) OTUs when comparing O (oral administrated) vs. C (control) g

OTU	+samples i	+samples i	counts in g	counts in g	oddsRatio	lower	upper	fisherP
297140	21	20	1575	7035	1.048932	0.125257	8.785856	1
New.Cleanl	12	10	358	1940	1.29273	0.356021	4.775718	0.772482
74192	7	15	21	1166	0.227528	0.053478	0.872206	0.019855
346606	17	2	591	17	23.2773	4.057289	256.6691	1.71E-05
16733	6	12	32	484	0.313743	0.073021	1.220527	0.075346
846386	7	3	173	17	2.687356	0.512614	18.62434	0.286466
712142	18	23	132	1192	0	0	0.779392	0.021936
349257	13	19	33	663	0.256528	0.048491	1.109489	0.059884
471412	0	11	0	187	0	0	0.25099	7.76E-05
1038455	6	8	132	460	0.631336	0.14441	2.621043	0.53433
46910	19	12	443	44	3.387541	0.829896	15.79507	0.068707
879327	14	10	413	1226	1.796636	0.495105	6.765741	0.386809
20534	24	23	2674	10937	0	0	Inf	1
New.Referc	7	11	204	509	0.457099	0.112925	1.738215	0.237524
New.Referc	8	18	64	381	0.145803	0.030102	0.597157	0.003157
306124	5	9	7	126	0.417365	0.088699	1.757139	0.212385
New.Referc	12	3	125	4	6.387792	1.350936	42.49331	0.011361
322004	14	3	739	82	8.848168	1.876451	59.28464	0.002049
350666	12	19	44	347	0.218021	0.041228	0.935377	0.030477
509416	18	2	141	5	28.41416	4.84616	318.7432	4.56E-06
New.Referc	7	6	63	200	1.162846	0.269128	5.168522	1
324283	24	19	12733	2912	Inf	0.73088	Inf	0.049645
516159	23	21	1297	188	2.155231	0.104991	134.6392	0.608511
157455	9	14	18	184	0.393908	0.100936	1.446926	0.148247
993934	19	21	869	1577	0.369555	0.031652	2.590183	0.415801
New.Referc	12	19	117	241	0.218021	0.041228	0.935377	0.030477
313423	10	9	406	88	1.108622	0.297262	4.176336	1
New.Referc	22	20	1049	1461	1.632591	0.168619	21.43219	0.666172
46566	13	11	56	1534	1.282272	0.354008	4.716612	0.77324
425675	19	4	305	25	16.58206	3.524105	102.0343	3.06E-05
New.Referc	21	12	480	90	6.152446	1.285235	41.22327	0.011361
359779	7	17	17	479	0.15242	0.032967	0.61078	0.00341
New.Referc	11	17	154	671	0.306811	0.071752	1.18374	0.075346
307722	10	11	71	420	0.783387	0.211335	2.861135	0.772482
New.Referc	20	19	762	1277	1.051509	0.169522	6.52293	1
New.Referc	5	10	17	52	0.350255	0.074957	1.447178	0.124581
New.Referc	12	6	88	16	2.769171	0.715454	11.78766	0.135095
New.Cleanl	20	14	670	134	3.133507	0.699919	16.83721	0.110718
New.Cleanl	22	19	632	139	2.275414	0.288636	27.80484	0.415801
New.Referc	7	10	28	63	0.542554	0.133884	2.088499	0.371469
179806	21	13	660	191	5.187601	1.071222	34.82361	0.024301
New.Cleanl	24	23	3006	1488	0	0	Inf	1
703741	24	23	4098	1596	0	0	Inf	1
354461	14	2	93	7	13.78467	2.466789	147.9298	0.000509
New.Referc	15	16	518	619	0.7341	0.180678	2.880186	0.760109
297260	10	14	28	249	0.467044	0.121848	1.703605	0.247648
524575	22	22	1599	1507	0.507182	0.008119	10.411	1
40798	17	22	165	409	0.115089	0.002351	1.033874	0.047924
356138	7	8	39	137	0.776338	0.18814	3.132097	0.760109

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2	523751	11	12	33	141	0.779866	0.212017	2.824794	0.77324
3	309433	18	19	58	320	0.637772	0.112645	3.215695	0.723793
4	304531	11	4	188	12	3.898213	0.901316	20.62247	0.059884
5	533298	13	22	58	293	0.056967	0.001201	0.471135	0.001797
6	New.Referenc	4	14	6	92	0.135164	0.025006	0.584822	0.002683
7	293013	17	17	575	854	0.859959	0.193479	3.71571	1
8	New.Referenc	7	16	14	82	0.187707	0.042648	0.732305	0.008672
9	528692	24	22	1712	2533	Inf	0.026756	Inf	0.489362
10	New.Clean	6	10	11	55	0.441288	0.102782	1.74861	0.227018
11	New.Referenc	15	1	45	4	33.65427	4.09923	1595.355	2.85E-05
12	New.Clean	21	21	725	1257	0.67239	0.051235	6.510321	1
13	New.Referenc	24	22	1302	552	Inf	0.026756	Inf	0.489362
14	New.Referenc	19	20	494	614	0.576803	0.078526	3.448309	0.700776
15	638485	11	17	138	260	0.306811	0.071752	1.18374	0.075346
16	364736	18	4	104	24	13.23625	2.918435	77.0944	0.000111
17	333028	8	13	17	83	0.39282	0.099633	1.454215	0.146807
18	588197	24	23	3219	1175	0	0	Inf	1
19	323200	13	7	79	8	2.642747	0.704447	10.68807	0.142454
20	4306043	3	11	39	89	0.162537	0.024258	0.778068	0.011361
21	New.Referenc	3	10	4	28	0.192767	0.028716	0.933513	0.024301
22	569826	9	12	21	105	0.55714	0.14669	2.037344	0.385159
23	New.Referenc	9	6	29	7	1.68079	0.416579	7.234206	0.53433
24	New.Referenc	4	13	9	55	0.160808	0.029972	0.693135	0.006484
25	355630	22	20	314	406	1.632591	0.168619	21.43219	0.666172
26	352852	24	23	428	1287	0	0	Inf	1
27	539601	10	14	28	115	0.467044	0.121848	1.703605	0.247648
28	347085	10	3	116	4	4.603767	0.95378	30.7879	0.048991
29	New.Referenc	5	12	13	59	0.249147	0.053318	1.01061	0.035512
30	535601	24	22	330	791	Inf	0.026756	Inf	0.489362
31	337057	13	7	103	17	2.642747	0.704447	10.68807	0.142454
32	New.Referenc	8	16	43	98	0.226658	0.053314	0.867775	0.019855
33	New.Referenc	15	5	283	32	5.749193	1.419682	27.30865	0.007664
34	109413	2	15	7	85	0.052533	0.004814	0.298581	5.78E-05
35	342638	22	21	316	148	1.046601	0.069913	15.66846	1
36	72926	24	23	1347	3114	0	0	Inf	1
37	70580	3	12	9	90	0.137283	0.020523	0.653032	0.00499
38	New.Clean	2	8	3	23	0.176929	0.016139	1.058331	0.03633
39	558458	10	14	40	125	0.467044	0.121848	1.703605	0.247648
40	316037	15	6	106	11	4.554572	1.171322	19.95219	0.01893
41	New.Referenc	9	12	21	94	0.55714	0.14669	2.037344	0.385159
42	New.Referenc	16	1	83	1	39.97923	4.833992	1902.446	8.48E-06
43	New.Referenc	15	10	95	106	2.130432	0.582881	8.175768	0.247648
44	515299	15	14	167	45	1.069847	0.281828	4.070736	1
45	New.Referenc	15	9	119	35	2.538665	0.69112	9.907292	0.148247
46	29495	22	16	188	287	4.657209	0.751966	51.74074	0.072265
47	581474	24	23	2467	1294	0	0	Inf	1
48	568118	24	23	33335	18659	0	0	Inf	1
49	New.Referenc	4	15	6	47	0.112888	0.020519	0.492893	0.001022
50	New.Clean	11	1	26	3	17.5541	2.122534	832.6803	0.001797
51	759751	19	15	270	66	1.996127	0.461402	9.501345	0.341163
52	163857	8	3	19	3	3.249485	0.643366	22.14722	0.168092
53	921813	18	18	96	206	0.836571	0.168409	3.978822	1

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2	189312	24	23	564	1050	0	0 Inf		1
3	New.Refer	13	7	85	41	2.642747	0.704447	10.68807	0.142454
4	314204	11	6	39	8	2.352341	0.602887	10.01131	0.227018
5	New.Refer	8	9	36	17	0.781966	0.199678	3.007657	0.766128
6	293665	8	13	27	72	0.39282	0.099633	1.454215	0.146807
7	335527	16	22	116	191	0.095161	0.001967	0.827653	0.022609
8	New.Refer	16	20	167	226	0.307741	0.045152	1.554326	0.168092
9	311173	13	9	65	11	1.814397	0.4984	6.872912	0.385159
10	987581	24	23	919	1158	0	0 Inf		1
11	345763	9	7	23	42	1.362211	0.3472	5.534694	0.760109
12	369182	14	5	68	13	4.853848	1.205911	22.75716	0.017128
13	New.Refer	5	10	6	35	0.350255	0.074957	1.447178	0.124581
14	531436	15	9	73	18	2.538665	0.69112	9.907292	0.148247
15	New.Refer	20	15	219	81	2.610839	0.567848	14.18965	0.193019
16	522591	24	23	1170	1500	0	0 Inf		1
17	New.Refer	8	9	10	49	0.781966	0.199678	3.007657	0.766128
18	196392	12	1	42	1	20.63398	2.51298	976.3722	0.000699
19	New.Refer	19	20	280	211	0.576803	0.078526	3.448309	0.700776
20	New.Refer	13	19	48	109	0.256528	0.048491	1.109489	0.059884
21	New.Refer	3	9	6	31	0.229619	0.03396	1.132039	0.048991
22	New.Refer	7	8	17	30	0.776338	0.18814	3.132097	0.760109
23	361727	20	5	80	19	16.53711	3.512431	101.7961	3.06E-05
24	555101	9	12	19	39	0.55714	0.14669	2.037344	0.385159
25	605577	19	21	93	184	0.369555	0.031652	2.590183	0.415801
26	New.Refer	12	13	39	78	0.773557	0.209393	2.808825	0.772482
27	510286	5	6	6	13	0.750302	0.150856	3.567328	0.739967
28	204093	21	21	104	195	0.67239	0.051235	6.510321	1
29	New.Clean	7	12	25	64	0.385656	0.094951	1.457348	0.142454
30	New.Refer	17	16	226	244	1.061103	0.252732	4.460835	1
31	New.Refer	15	8	85	24	3.046109	0.820181	12.19196	0.08198
32	293717	15	14	72	34	1.069847	0.281828	4.070736	1
33	302144	10	5	39	6	2.519434	0.61136	11.71687	0.212385
34	350627	21	15	178	88	3.628688	0.717411	24.79498	0.093308
35	524117	10	5	26	6	2.519434	0.61136	11.71687	0.212385
36	295410	22	23	143	326	0	0	5.522388	0.489362
37	4334844	17	10	100	30	3.076792	0.814894	12.60681	0.07977
38	4358599	8	9	12	31	0.781966	0.199678	3.007657	0.766128
39	New.Refer	11	16	19	41	0.378394	0.093562	1.419554	0.142454
40	345899	20	15	114	51	2.610839	0.567848	14.18965	0.193019
41	175377	5	14	8	32	0.176499	0.037055	0.718034	0.007664
42	New.Refer	10	16	22	62	0.320752	0.07851	1.205276	0.07977
43	518040	11	11	18	42	0.924651	0.252721	3.368783	1
44	269611	5	12	14	30	0.249147	0.053318	1.01061	0.035512
45	560535	24	23	880	539	0	0 Inf		1
46	New.Refer	17	10	47	15	3.076792	0.814894	12.60681	0.07977
47	588216	5	11	15	28	0.295199	0.063311	1.20497	0.068707
48	337784	18	12	62	20	2.689397	0.687018	11.52343	0.135095
49	New.Refer	8	11	12	25	0.552632	0.142109	2.060143	0.380129
50	359175	17	18	58	101	0.680282	0.140693	3.058911	0.739967
51	New.Refer	21	20	132	208	1.048932	0.125257	8.785856	1
52	New.Refer	23	11	84	25	23.39767	2.834303	1110.382	0.000257
53	351659	13	18	22	56	0.336386	0.072641	1.367852	0.124581

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2	339504	18	17	56	77	1.057503	0.231442	4.836781	1
3	New.Referenc	14	15	39	47	0.751341	0.193959	2.835086	0.766128
4	270303	13	17	21	41	0.425108	0.099887	1.658687	0.227018
5	New.Referenc	12	13	26	33	0.773557	0.209393	2.808825	0.772482
6	938672	11	12	21	30	0.779866	0.212017	2.824794	0.77324
7	New.Cleanl	12	13	17	42	0.773557	0.209393	2.808825	0.772482
8	New.Referenc	10	8	18	20	1.330954	0.352723	5.155729	0.766128
9	291202	16	12	47	15	1.809522	0.485403	7.036843	0.380129
10	New.Cleanl	16	15	28	56	1.065183	0.269275	4.221428	1

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group at T2. DA OTUs were used to be plotted in the Venn diagram (Figure 4).

	fisherAdjP	(Intercept)	ATB_GROUnormFacto	pvalues	adjPvalues	Kingdom	Phylum	Class
1	1	4.229409	3.648336	3.672688	5.45E-07	0.000105	k__Bacteri	__Spirochc__Spiroch
2	1	2.288178	3.252387	2.995177	0.000371	0.007306	k__Bacteri	__Bacteroc__Bactero
3	0.347638	1.090119	3.15178	-1.96943	1.00E-06	0.00016	k__Bacteri	__Proteokc__Gamma
4	0.004912	3.762805	-2.81276	1.427421	4.39E-05	0.001958	k__Bacteri	__Firmicu c__Clostrid
5	0.559907	0.906356	2.697062	4.350159	5.67E-05	0.002102	k__Bacteri	__Bacteroc__Bactero
6	0.947995	3.630864	-2.62733	-1.05542	2.81E-05	0.001424	k__Bacteri	__Firmicu c__Clostrid
7	0.371457	2.549458	2.604563	0.867903	4.47E-08	4.31E-05	k__Bacteri	__Firmicu c__Clostrid
8	0.533968	1.439735	2.56628	-0.59964	1.92E-06	0.000185	k__Bacteri	__Firmicu c__Clostrid
9	0.009345	0.052752	2.47888	-2.17967	6.26E-06	0.000401	k__Bacteri	__Proteokc__Gamma
10	1	2.228437	2.430937	4.43405	0.000212	0.005517	k__Bacteri	__Spirochc__Spiroch
11	0.559907	4.015084	-2.41917	0.711958	2.61E-07	8.25E-05	k__Bacteri	__Firmicu c__Clostrid
12	0.955122	2.826985	2.364052	3.995533	0.00295	0.02706	k__Bacteri	__Firmicu c__Clostrid
13	1	5.21642	2.357185	0.316783	0.000994	0.012629	k__Bacteri	__Bacteroc__Bactero
14	0.848702	1.861674	2.344332	3.13043	0.003085	0.027576	k__Bacteri	__Bacteroc__Bactero
15	0.138189	1.485543	2.294057	3.031535	0.000188	0.005036	k__Bacteri	__Firmicu c__Clostrid
16	0.848702	0.652355	2.281898	1.330767	5.97E-06	0.000401	k__Bacteri	__Firmicu c__Clostrid
17	0.266856	2.257731	-2.27253	-2.70261	3.43E-07	8.25E-05	k__Bacteri	__Bacteroc__Bactero
18	0.103853	3.674742	-2.26832	1.034045	0.005475	0.037391	k__Bacteri	__Firmicu c__Clostrid
19	0.425346	1.453532	2.202778	-0.48023	3.90E-06	0.000313	k__Bacteri	__Firmicu c__Clostrid
20	0.004083	2.582089	-2.18943	-0.6332	1.26E-06	0.000171	k__Bacteri	__Firmicu c__Clostrid
21	1	1.198209	2.18062	3.845229	0.001546	0.016544	k__Bacteri	__Firmicu c__Clostrid
22	0.487842	7.739145	-2.16409	-3.04752	0.000667	0.010032	k__Bacteri	__Bacteroc__Bactero
23	1	4.83063	-2.14946	-0.52202	5.41E-05	0.002085	k__Bacteri	__Proteokc__Gamma
24	0.686357	1.032591	2.13325	-0.51198	1.85E-06	0.000185	k__Bacteri	__Firmicu c__Clostrid
25	0.993588	3.294589	2.067739	0.836954	0.002151	0.020919	k__Bacteri	__Bacteroc__Bactero
26	0.425346	1.83182	2.03933	3.983042	1.42E-06	0.000171	k__Bacteri	__Firmicu c__Clostrid
27	1	4.426547	-2.03879	-1.73679	0.000268	0.006011	k__Bacteri	__Firmicu c__Clostrid
28	1	3.174445	2.031498	0.574576	0.001821	0.018454	k__Bacteri	__Bacteroc__Bactero
29	1	1.205798	1.986131	3.012084	0.003544	0.02994	k__Bacteri	__Bacteroc__Bactero
30	0.004912	2.875429	-1.95054	-1.41046	0.000532	0.009323	k__Bacteri	__Firmicu c__Clostrid
31	0.266856	3.330476	-1.91672	-3.43029	0.000124	0.003723	k__Bacteri	__Bacteroc__Bactero
32	0.142764	0.967405	1.910993	-1.56188	0.000236	0.005681	k__Bacteri	__Proteokc__Gamma
33	0.559907	2.384715	1.874265	3.288415	0.004013	0.031678	k__Bacteri	__Proteokc__Deltapr
34	1	1.69199	1.843095	2.768573	0.004453	0.033499	k__Bacteri	__Firmicu c__Clostrid
35	1	3.642095	1.814502	2.239583	0.003831	0.030999	k__Bacteri	__Bacteroc__Bactero
36	0.686357	0.924607	1.800999	1.559934	3.08E-06	0.00027	k__Bacteri	__Bacteroc__Bactero
37	0.686357	2.299528	-1.79443	-2.82928	3.03E-07	8.25E-05	k__Bacteri	__Bacteroc__Bactero
38	0.674817	3.598121	-1.77191	-3.40842	0.000562	0.00955	k__Bacteri	__Bacteroc__Bactero
39	0.993588	3.673479	-1.75507	-3.03861	4.47E-05	0.001958	k__Bacteri	__Bacteroc__Bactero
40	0.955122	1.266801	1.717239	1.769704	5.85E-06	0.000401	k__Bacteri	__Bacteroc__Bactero
41	0.371457	4.343144	-1.7146	-0.69701	0.001794	0.018379	k__Bacteri	__Bacteroc__Bactero
42	1	6.071369	-1.71003	-3.28614	0.001708	0.017877	k__Bacteri	__Bacteroc__Bactero
43	1	7.069086	-1.70321	-0.23981	0.000111	0.003547	k__Bacteri	__Firmicu c__Bacilli
44	0.044527	2.297722	-1.68685	0.850319	0.000139	0.004056	k__Bacteri	__Firmicu c__Clostrid
45	1	2.882051	1.642868	4.866533	0.007595	0.046292	k__Bacteri	__Bacteroc__Bactero
46	0.848702	1.319857	1.634509	0.851364	0.000923	0.012134	k__Bacteri	__Proteokc__Epsilon
47	1	4.326905	1.608977	1.755313	0.003413	0.029087	k__Bacteri	__Firmicu c__Clostrid
48	0.487842	2.531199	1.60643	1.423672	0.000424	0.008005	k__Bacteri	__Firmicu c__Clostrid
49	1	1.093299	1.593325	2.740702	0.004987	0.035571	k__Bacteri	__Firmicu c__Clostrid

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2	1	1.373467	1.576465	1.911276	0.000719	0.010334	k__Bacteriap__Proteokc__Gamma
3	1	1.856353	1.552734	-0.04662	9.94E-05	0.003302	k__Bacteriap__Firmicu c__Clostrid
4	0.533968	2.562749	-1.54375	2.04068	0.00422	0.032328	k__Bacteriap__Firmicu c__Clostrid
5	0.101818	1.611191	1.52099	0.97672	0.000682	0.010099	k__Bacteriap__Proteokc__Gamma
6	0.123015	0.587223	1.508449	-0.56865	0.000529	0.009323	k__Bacteriap__Bacteroc__Bactero
7	1	3.74232	1.50753	4.039161	0.00493	0.035571	k__Bacteriap__Bacteroc__Bactero
8	0.245625	0.853399	1.507275	0.446557	1.60E-05	0.000907	k__Bacteriap__Firmicu c__Clostrid
9	1	5.366877	1.506517	2.73409	0.000124	0.003723	k__Bacteriap__Firmicu c__Clostrid
10	0.848702	0.928814	1.503616	0.916044	6.64E-05	0.002369	k__Bacteriap__Bacteroc__Bactero
11	0.004912	1.692558	-1.4783	-0.88911	2.26E-05	0.001208	k__Bacteriap__Firmicu c__Clostrid
12	1	4.051932	1.471918	3.931227	0.003985	0.031678	k__Bacteriap__Bacteroc__Bactero
13	1	5.061086	-1.46132	-2.98897	0.000312	0.006837	k__Bacteriap__Bacteroc__Bactero
14	1	3.518579	1.455953	3.961931	0.000637	0.009983	k__Bacteriap__Bacteroc__Bactero
15	0.559907	2.289148	1.424771	3.307612	0.004168	0.032328	k__Bacteriap__Fibrobac__Fibroba
16	0.011872	2.263035	-1.41779	-1.88049	0.000854	0.011589	k__Bacteriap__Firmicu c__Clostrid
17	0.686357	0.963687	1.417339	-0.06269	0.000357	0.007306	k__Bacteriap__Bacteroc__Bactero
18	1	6.638832	-1.41461	1.215487	0.000366	0.007306	k__Bacteriap__Firmicu c__Bacilli
19	0.686357	2.125372	-1.40552	0.354818	0.000248	0.005761	k__Bacteriap__Firmicu c__Erysipel
20	0.266856	0.848961	1.400831	3.093934	0.007658	0.046383	k__Bacteriap__Bacteroc__Bactero
21	0.371457	0.524213	1.396345	0.958486	6.66E-06	0.000401	k__Bacteriap__Bacteroc__Bactero
22	0.955122	0.855725	1.383448	2.560563	0.001286	0.01495	k__Bacteriap__Firmicu c__Clostrid
23	1	1.890892	-1.38011	-1.15832	5.32E-05	0.002085	k__Bacteriap__Bacteroc__Bactero
24	0.21531	0.924781	1.376116	1.407435	5.00E-05	0.002085	k__Bacteriap__Bacteroc__Bactero
25	1	3.04325	1.372829	2.289999	3.50E-05	0.001684	k__Bacteriap__Firmicu c__Clostrid
26	1	3.653105	1.371679	1.836202	0.006974	0.04431	k__Bacteriap__Firmicu c__Clostrid
27	0.848702	1.313036	1.369471	-0.31082	0.001216	0.014517	k__Bacteriap__Firmicu c__Clostrid
28	0.487842	2.143166	-1.3664	3.212228	0.000912	0.012134	k__Bacteriap__Firmicu c__Clostrid
29	0.46202	0.955246	1.366109	0.840205	0.000227	0.005594	k__Bacteriap__Bacteroc__Bactero
30	1	3.537581	1.365032	1.592561	0.000251	0.005761	k__Bacteriap__Firmicu c__Clostrid
31	0.686357	2.425884	-1.34258	0.348642	0.001395	0.015362	k__Bacteriap__Firmicu c__Clostrid
32	0.347638	1.327221	1.319646	2.287665	0.000528	0.009323	k__Bacteriap__Bacteroc__Bactero
33	0.235952	3.267928	-1.31178	2.586332	0.008395	0.049903	k__Bacteriap__Bacteroc__Bactero
34	0.007958	0.549023	1.307613	-1.2482	0.002594	0.024488	k__Bacteriap__Proteokc__Gamma
35	1	3.334394	-1.30605	-2.26154	0.000613	0.009983	k__Bacteriap__Bacteroc__Bactero
36	1	5.125328	1.305802	1.147059	0.007132	0.04431	k__Bacteriap__Firmicu c__Clostrid
37	0.171613	0.678347	1.298513	-1.78317	0.003093	0.027576	k__Bacteriap__Proteokc__Gamma
38	0.46202	0.364245	1.297902	-0.41803	0.000372	0.007306	k__Bacteriap__Bacteroc__Bactero
39	0.848702	1.315429	1.277993	0.66915	0.005966	0.039623	k__Bacteriap__Bacteroc__Bactero
40	0.347638	2.286727	-1.27105	1.48272	0.001581	0.016734	k__Bacteriap__Firmicu c__Clostrid
41	0.955122	1.091786	1.263434	0.787948	0.004978	0.035571	k__Bacteriap__Bacteroc__Bactero
42	0.004083	1.782259	-1.25626	2.655264	0.000717	0.010334	k__Bacteriap__Firmicu c__Clostrid
43	0.848702	1.703115	1.255961	1.055934	0.005311	0.036534	k__Bacteriap__Bacteroc__Bactero
44	1	2.917412	-1.25293	-0.01201	0.001379	0.015362	k__Bacteriap__Firmicu c__Clostrid
45	0.686357	2.283341	-1.25263	-3.06847	0.000347	0.007306	k__Bacteriap__Bacteroc__Bactero
46	0.559907	2.69245	1.24772	2.24464	0.001327	0.015034	k__Bacteriap__Firmicu c__Clostrid
47	1	6.080199	-1.24262	-0.86382	0.007029	0.04431	k__Bacteriap__Firmicu c__Bacilli
48	1	9.895578	-1.23917	-2.86397	0.001024	0.012812	k__Bacteriap__Bacteroc__Bactero
49	0.070314	0.55652	1.221763	0.275401	0.000149	0.00421	k__Bacteriap__Firmicu c__Clostrid
50	0.101818	1.414532	-1.21301	-0.57826	0.000224	0.005594	k__Bacteriap__Bacteroc__Bactero
51	0.955122	3.02193	-1.1883	0.089341	0.007384	0.045292	k__Bacteriap__Firmicu c__Clostrid
52	0.749408	1.663887	-1.18027	0.703384	8.88E-05	0.003056	k__Bacteriap__Proteokc__Gamma
53	1	2.033573	1.160857	2.406394	0.001209	0.014517	k__Bacteriap__Bacteroc__Bactero

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2	1	4.16483	1.146373	0.837765	0.001896	0.019019	k__Bacteriap__Firmicu c__Clostrid
3	0.686357	2.37062	-1.13642	-1.31434	0.007381	0.045292	k__Bacteriap__Bacteroc__Bactero
4	0.848702	1.789788	-1.1332	-0.17415	0.000635	0.009983	k__Bacteriap__Firmicu c__Clostrid
5	1	1.97231	-1.13288	-1.39904	0.000457	0.008467	k__Bacteriap__Bacteroc__Bactero
6	0.686357	1.173396	1.124559	2.015474	0.003697	0.030174	k__Bacteriap__Firmicu c__Clostrid
7	0.371457	2.119358	1.120148	3.190133	0.00286	0.026485	k__Bacteriap__Firmicu c__Clostrid
8	0.749408	2.427574	1.117693	3.4558	0.005239	0.036364	k__Bacteriap__Bacteroc__Bactero
9	0.955122	2.035691	-1.11409	0.72159	0.000644	0.009983	k__Bacteriap__Proteokc__Epsilon
10	1	4.460006	1.109225	3.949665	0.005115	0.035955	k__Bacteriap__Bacteroc__Bactero
11	1	0.867226	1.105498	2.888406	0.002642	0.024697	k__Bacteriap__Firmicu c__Clostrid
12	0.347638	1.745002	-1.10198	-1.28511	0.004185	0.032328	k__Bacteriap__Firmicu c__Clostrid
13	0.686357	0.590931	1.09832	-0.47538	0.000805	0.011173	k__Bacteriap__Bacteroc__Bactero
14	0.686357	2.005841	-1.07813	-0.95525	0.001319	0.015034	k__Bacteriap__Firmicu c__Clostrid
15	0.826123	2.699791	-1.07564	-2.4916	0.004928	0.035571	k__Bacteriap__Bacteroc__Bactero
16	1	4.993708	1.072204	2.590136	0.002431	0.02318	k__Bacteriap__Bacteroc__Bactero
17	1	0.798131	1.061177	-0.50573	0.001972	0.019377	k__Bacteriap__Bacteroc__Bactero
18	0.056068	1.44513	-1.05534	2.172578	0.001064	0.013137	k__Bacteriap__Firmicu c__Clostrid
19	1	3.348112	-1.03964	-2.86063	0.006819	0.044075	k__Bacteriap__Bacteroc__Bactero
20	0.533968	1.419471	1.03367	1.837567	0.006819	0.044075	k__Bacteriap__Firmicu c__Clostrid
21	0.487842	0.82351	1.032937	1.142393	0.002299	0.022138	k__Bacteriap__Bacteroc__Bactero
22	1	1.079894	1.028039	1.992412	0.000997	0.012629	k__Bacteriap__Bacteroc__Bactero
23	0.004912	2.107084	-1.02351	0.119001	0.003346	0.028769	k__Bacteriap__Firmicu c__Clostrid
24	0.955122	0.917983	1.019526	2.116626	0.000388	0.007475	k__Bacteriap__Firmicu c__Clostrid
25	0.993588	2.044201	1.015871	1.713518	0.003646	0.030174	k__Bacteriap__Firmicu c__Erysipel
26	1	1.296378	1.014189	1.681266	0.00704	0.04431	k__Bacteriap__Bacteroc__Bactero
27	1	0.675648	1.013681	1.318065	0.000629	0.009983	k__Bacteriap__Firmicu c__Clostrid
28	1	2.166341	1.008531	2.640232	0.000812	0.011173	k__Bacteriap__Firmicu c__Clostrid
29	0.686357	1.212496	0.999291	2.922988	0.007061	0.04431	k__Bacteriap__Bacteroc__Bactero
30	1	3.009008	0.995042	2.930174	0.005516	0.037407	k__Bacteriap__Bacteroc__Bactero
31	0.559907	1.970135	-0.99274	-1.86505	0.003315	0.028756	k__Bacteriap__Bacteroc__Bactero
32	1	2.073992	-0.97558	-1.97841	0.000182	0.005011	k__Bacteriap__Bacteroc__Bactero
33	0.848702	1.397137	-0.9753	-1.26559	0.003932	0.031553	k__Bacteriap__Firmicu c__Clostrid
34	0.619692	2.7889	-0.96107	-2.27872	0.003673	0.030174	k__Bacteriap__Bacteroc__Bactero
35	0.848702	1.709424	-0.95644	0.670386	0.00073	0.010337	k__Bacteriap__Proteokc__Gamma
36	1	2.612955	0.939899	-0.54333	0.001754	0.018161	k__Bacteriap__Firmicu c__Clostrid
37	0.559907	2.503725	-0.92309	0.585894	0.004599	0.034328	k__Bacteriap__Firmicu c__Clostrid
38	1	1.027316	0.914763	1.039855	0.001947	0.019331	k__Bacteriap__Bacteroc__Bactero
39	0.686357	0.899716	0.909063	1.323027	0.000653	0.009983	Unassigned NA NA
40	0.826123	2.361979	-0.90824	-2.19028	0.000565	0.00955	k__Bacteriap__Bacteroc__Bactero
41	0.235952	0.673057	0.892385	0.662337	0.000932	0.012134	k__Bacteriap__Firmicu c__Clostrid
42	0.559907	1.162248	0.887204	0.684006	0.003608	0.030174	Unassigned NA NA
43	1	1.039423	0.880804	0.694055	0.003088	0.027576	k__Bacteriap__Firmicu c__Clostrid
44	0.46202	0.784112	0.87085	1.280936	0.008207	0.049088	k__Bacteriap__Firmicu c__Clostrid
45	1	4.985218	-0.86199	-0.89208	0.00712	0.04431	k__Bacteriap__Firmicu c__Clostrid
46	0.559907	1.736199	-0.8609	-0.47031	0.001221	0.014517	k__Bacteriap__Bacteroc__Bactero
47	0.559907	1.101505	0.801386	1.051436	0.005063	0.035853	k__Bacteriap__Proteokc__Gamma
48	0.686357	1.936916	-0.79989	-0.14366	0.001289	0.01495	k__Bacteriap__Firmicu c__Clostrid
49	0.955122	0.811603	0.782539	1.007095	0.004976	0.035571	k__Bacteriap__Bacteroc__Bactero
50	1	1.652021	0.782313	-0.53981	0.005678	0.038235	k__Bacteriap__Firmicu c__Clostrid
51	1	2.542582	0.773417	1.147211	0.008155	0.049084	k__Bacteriap__Firmicu c__Clostrid
52	0.024705	2.001496	-0.76858	-0.64425	0.004971	0.035571	k__Bacteriap__Bacteroc__Bactero
53	0.686357	1.17074	0.762564	0.253764	0.001463	0.015834	k__Bacteriap__Firmicu c__Clostrid

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2	1	1.660223	0.726758	1.285454	0.00592	0.039592	k__Bacteri;p__Firmicu c__Clostrid	
3	1	1.264735	0.715539	2.96901	0.003246	0.028415	k__Bacteri;p__Firmicu c__Clostrid	
4	0.848702	1.037289	0.715294	0.771868	0.001404	0.015362	k__Bacteri;p__Firmicu c__Clostrid	
5	1	1.096398	0.707418	1.605507	0.00423	0.032328	k__Bacteri;p__Bacteroc__Bactero	
6	1	1.02819	0.676956	1.329985	0.005249	0.036364	k__Bacteri;p__Bacteroc__Bactero	
7	1	1.105793	0.671814	-0.60099	0.003133	0.027681	k__Bacteri;p__Bacteroc__Bactero	
8	1	1.095435	0.662537	1.439858	0.006818	0.044075	k__Bacteri;p__Bacteroc__Bactero	
9								
10	0.955122	1.694913	-0.65998	0.597407	0.006588	0.043453	k__Bacteri;p__Firmicu c__Clostrid	
11	1	1.336936	0.649945	-0.39299	0.004404	0.033392	k__Bacteri;p__Bacteroc__Bactero	
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For Peer Review

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Order	Family	Genus	Species
o_Spirochf_Spirochæg_Treponεs__			
o_Bacterof_Prevotelg_Prevotes__			
o_Pasteurf_Pasteurεg_Actinobs__			
o_Clostridf_Lachnosg_Coproccs__			
o_Bacterof__g__s__			
o_Clostridf_Lachnosg_Anaeroεs__			
o_Clostridf_Ruminoεg__s__			
o_Clostridf_Lachnosg_Lachnosεs__			
o_Pasteurf_Pasteurεg_Actinobs__			
o_Spirochf_Spirochæg_Treponεs__			
o_Clostridf_Ruminoεg__s__			
o_Clostridf_Lachnosg__s__			
o_Bacterof_[Parapreεg_[Prevotεs__			
o_Bacterof_Bacteroεg_Bacterosεbarnesiaε			
o_Clostridf_Veilloneg_Anaeroεs__			
o_Clostridf_Veilloneg_Mitsuokεs_multacida			
o_Bacterof_Prevotelg_Prevotesεcopri			
o_Clostridf_Ruminoεg__s__			
o_Clostridf__g__s__			
o_Clostridf_Lachnos NA NA			
o_Clostridf_Lachnosg__s__			
o_Bacterof_Prevotelg_Prevotesε			
o_Aeromcf_Succinivg_Succinivεs__			
o_Clostridf_Ruminoεg__s__			
o_Bacterof_Prevotelg_Prevotesε			
o_Clostridf_[Mogibag__s__			
o_Clostridf_Lachnosg_Butyrivivεs__			
o_Bacterof_[Parapreεg_[Prevotεs__			
o_Bacterof_Prevotelg_Prevotesε			
o_Clostridf_Lachnosg_Coproccs__			
o_Bacterof_Prevotelg_Prevotesε			
o_Pasteurf_Pasteurεg_Actinobs__			
o_GMD14f__g__s__			
o_Clostridf_Lachnosg_Coproccs__			
o_Bacterof_[Parapreεg_[Prevotεs__			
o_Bacterof_Prevotelg_Prevotesεstercorea			
o_Bacterof_Prevotelg_Prevotesεcopri			
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o_Bacterof_Prevotelg_Prevotesεcopri			
o_Bacterof_Prevotelg_Prevotesε			
o_Bacterof_[Parapreεg__s__			
o_Bacterof_Prevotelg_Prevotesεcopri			
o_Lactobaf_Lactobag_Lactobasε			
o_Clostridf_Lachnosg__s__			
o_Bacterof_Prevotelg_Prevotesε			
o_Campylf_Campylεg_Campylivεs__			
o_Clostridf_Lachnosg__s__			
o_Clostridf_Ruminoεg__s__			
o_Clostridf_Lachnos NA NA			

1 o__Aeromcf__Succinivg__Rumino s__
 2 o__Clostridf__Lachnosg__Lachnos s__
 3 o__Clostridf__Ruminoig__ s__
 4 o__Aeromcf__Succinivg__Succiniv s__
 5 o__Bacterof__[Parapreg__[Prevotis__
 6 o__Bacterof__S24-7 g__ s__
 7 o__Clostridf__[Mogibag__Anaerov s__
 8 o__Clostridf__Lachnos g__ s__
 9 o__Bacterof__[Parapreg__[Prevotis__
 10 o__Clostridf__ g__ s__
 11 o__Bacterof__Prevotelg__Prevote s__
 12 o__Bacterof__Prevotelg__Prevote s__copri
 13 o__Bacterof__Porphyrg__Parabac s__
 14 o__Fibroba f__Fibroba g__Fibroba s__succinogenes
 15 o__Clostridf__ g__ s__
 16 o__Bacterof__Prevotelg__Prevote s__copri
 17 o__Lactobaf__Lactoba g__Lactoba s__
 18 o__Erysipelf__Erysipelg__p-75-a5 s__
 19 o__Bacterof__S24-7 g__ s__
 20 o__Bacterof__Rikenell NA NA
 21 o__Clostridf__Ruminoig__Oscillos s__
 22 o__Bacterof__S24-7 g__ s__
 23 o__Bacterof__Prevotelg__Prevote s__
 24 o__Clostridf__Lachnos g__ s__
 25 o__Clostridf__Lachnos g__ s__
 26 o__Clostridf__Lachnos g__ s__
 27 o__Clostridf__Ruminoig__ s__
 28 o__Bacterof__Prevotelg__Prevote s__
 29 o__Clostridf__Lachnos g__ s__
 30 o__Clostridf__Christeng__ s__
 31 o__Bacterof__S24-7 g__ s__
 32 o__Bacterof__S24-7 g__ s__
 33 o__Pasteurf__Pasteurg__Actinob s__porcinus
 34 o__Bacterof__Prevotelg__Prevote s__copri
 35 o__Clostridf__Veilloneg__Anaerov s__
 36 o__Pasteurf__Pasteurg__Actinob s__porcinus
 37 o__Bacterof__[Parapreg__[Prevotis__
 38 o__Bacterof__Prevotelg__Prevote s__
 39 o__Clostridf__Lachnosg__Coprocc s__
 40 o__Bacterof__Prevotelg__Prevote s__
 41 o__Clostridf__Ruminoig__Rumino s__
 42 o__Bacterof__ g__ s__
 43 o__Clostridf__ g__ s__
 44 o__Bacterof__Prevotelg__Prevote s__copri
 45 o__Clostridf__Ruminoig__ s__
 46 o__Lactobaf__Lactoba g__Lactoba s__
 47 o__Bacterof__Prevotelg__Prevote s__copri
 48 o__Clostridf__Ruminoig__Oscillos s__
 49 o__Bacterof__Prevotelg__Prevote s__copri
 50 o__Clostridf__Lachnos g__ s__
 51 o__Aeromcf__Succinivg__Succiniv s__
 52 o__Bacterof__Porphyrg__Parabac s__

1 o__Clostridf__Ruminoi g__ s__
 2 o__Bacterof__Prevoteli g__Prevotes__copri
 3 o__Clostridf__Clostridi g__ s__
 4 o__Bacterof__Prevoteli g__Prevotes__stercorea
 5 o__Clostridf__Lachnos g__ s__
 6 o__Clostridf__ g__ s__
 7 o__Bacterof__Porphyrg__Parabacs__
 8 o__Campylf__Helicob;g__Helicob NA
 9 o__Bacterof__Prevoteli g__Prevotes__
 10 o__Clostridf__Ruminoi g__ s__
 11 o__Clostridf__Lachnos g__ s__
 12 o__Bacterof__[Parapreg__[Prevoti s__
 13 o__Clostridf__Lachnos g__ s__
 14 o__Bacterof__Prevoteli g__Prevotes__copri
 15 o__Bacterof__S24-7 g__ s__
 16 o__Bacterof__Prevoteli g__Prevotes__copri
 17 o__Clostridf__Ruminoi g__ s__
 18 o__Bacterof__Prevoteli g__Prevotes__
 19 o__Clostridf__Lachnos g__ s__
 20 o__Bacterof__[Parapreg__[Prevoti s__
 21 o__Bacterof__Prevoteli g__Prevotes__
 22 o__Clostridf__ g__ s__
 23 o__Clostridf__Ruminoi g__ s__
 24 o__Erysipelf__Erysipel g__p-75-a5 s__
 25 o__Bacterof__ g__ s__
 26 o__Clostridf__Lachnos g__ s__
 27 o__Clostridf__Ruminoi g__ Oscillos s__
 28 o__Bacterof__[Parapreg__[Prevoti s__
 29 o__Bacterof__[Parapreg__ s__
 30 o__Bacterof__Prevoteli g__Prevotes__
 31 o__Bacterof__Prevoteli g__Prevotes__copri
 32 o__Clostridf__Ruminoi g__ s__
 33 o__Bacterof__Prevoteli g__Prevotes__copri
 34 o__Aeromcf__Succiniv g__Succiniv s__
 35 o__Clostridf__ g__ s__
 36 o__Clostridf__ g__ s__
 37 o__Bacterof__S24-7 g__ s__
 38 NA NA NA NA
 39 o__Bacterof__Prevoteli g__Prevotes__copri
 40 o__Clostridf__Ruminoi g__ Oscillos s__
 41 NA NA NA NA
 42 o__Clostridf__ g__ s__
 43 o__Clostridf__Ruminoi g__ s__
 44 o__Clostridf__Ruminoi g__ s__
 45 o__Bacterof__S24-7 g__ s__
 46 o__Enterokf__Enterob g__ s__
 47 o__Clostridf__[Mogiba g__ s__
 48 o__Bacterof__Porphyrg__Parabacs__
 49 o__Clostridf__Ruminoi g__ s__
 50 o__Clostridf__Ruminoi g__ Oscillos s__
 51 o__Bacterof__Prevoteli g__Prevotes__copri
 52 o__Clostridf__Lachnos g__ s__

1 o__Clostridf__Lachnosg__ s__
2 o__Clostridf__Ruminoig__ s__
3 o__Clostridf__Ruminoig__Oscillos s__
4 o__Bacterof__Porphyrg__Parabacs__
5 o__Bacterof__Prevotelg__Prevotes__
6 o__Bacterof__Prevotelg__Prevotes__
7 o__Bacterof__Prevotelg__Prevotes__
8 o__Bacterof__[Parapreg__CF231 s__
9 o__Clostridf__Ruminoig__ s__
10 o__Bacterof__Prevotelg__Prevotes__
11 o__Bacterof__Prevotelg__Prevotes__

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Table S14: Differentially abundant (DA) OTUs when comparing P (parenteral administrated) vs. O (ora

OTU	+samples i	+samples i	counts in g	counts in g	oddsRatio	lower	upper	fisherP
New.Referenc	1	13	4	337	0.037756	0.000794	0.312131	0.000226
346606	2	14	17	304	0.065724	0.006056	0.372409	0.00044
539202	10	7	387	185	1.736616	0.447501	7.080679	0.542001
99414	2	15	17	409	0.055011	0.005027	0.313991	0.000148
304531	4	10	12	712	0.28176	0.052588	1.245103	0.107509
516159	21	20	188	2099	1.559631	0.160692	20.51515	1
322004	3	15	82	591	0.085469	0.012422	0.412788	0.000662
New.Referenc	11	10	509	147	1.187122	0.32085	4.442569	1
New.Referenc	17	17	671	193	1	0.217548	4.596696	1
531436	9	15	18	1048	0.351298	0.08707	1.319737	0.139244
New.Cleanl	13	7	200	72	2.898623	0.761253	11.95118	0.136166
366716	10	14	31	406	0.50229	0.129823	1.856705	0.376221
300235	23	21	13408	6397	Inf	0.189163	Inf	0.488889
46910	12	20	44	334	0.170568	0.025393	0.820381	0.023043
New.Referenc	8	17	48	432	0.196023	0.043473	0.77869	0.016908
323200	7	8	8	120	0.82386	0.198454	3.349322	1
328825	3	9	11	110	0.240967	0.035512	1.193317	0.090934
515299	14	14	45	195	1	0.260685	3.836048	1
318997	1	11	6	84	0.052834	0.001109	0.440212	0.001668
196800	10	5	55	11	2.707055	0.651184	12.70718	0.207811
335267	4	10	6	181	0.28176	0.052588	1.245103	0.107509
425675	4	17	25	234	0.079931	0.013658	0.36508	0.000275
342638	21	19	148	360	2.173462	0.274918	26.61742	0.665154
306124	9	6	126	11	1.797656	0.442084	7.807551	0.530214
471412	11	5	187	10	3.212082	0.781931	15.04442	0.120451
29495	16	16	287	160	1	0.236469	4.228878	1
New.Referenc	8	16	19	155	0.24152	0.056426	0.933774	0.037682
354957	5	11	11	240	0.311325	0.06647	1.278885	0.120451
712142	23	16	1192	263	Inf	1.733033	Inf	0.009161
297260	14	12	249	37	1.414888	0.380329	5.392888	0.766613
364736	4	13	24	85	0.169159	0.031425	0.733197	0.013383
New.Referenc	5	13	12	143	0.221597	0.04688	0.903581	0.033108
New.Referenc	16	19	244	167	0.488932	0.088095	2.346279	0.49077
341657	16	17	50	186	0.810505	0.181121	3.522335	1
4315785	5	16	13	116	0.128328	0.025588	0.539415	0.002651
350666	19	16	347	80	2.045275	0.426207	11.35141	0.49077
524117	5	12	6	70	0.26278	0.055982	1.072711	0.065387
197539	7	3	21	3	2.849774	0.540791	19.84495	0.283666
316037	6	16	11	109	0.161799	0.034778	0.653834	0.007214
New.Referenc	15	18	81	176	0.528316	0.110505	2.298826	0.513633
358104	9	15	28	87	0.351298	0.08707	1.319737	0.139244
649107	10	18	32	157	0.221597	0.04688	0.903581	0.033108
New.Referenc	8	3	30	10	3.458426	0.680642	23.70093	0.165322
845291	7	10	12	71	0.575833	0.141229	2.23463	0.542001
100852	4	10	8	45	0.28176	0.052588	1.245103	0.107509
New.Referenc	15	9	75	27	2.846583	0.757727	11.485	0.139244
509416	2	13	5	64	0.078061	0.007217	0.441226	0.001207
New.Referenc	3	8	4	20	0.289149	0.042192	1.4692	0.165322
925131	23	23	1162	655	0	0	Inf	1

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New.Referenc	13	7	55	14	2.898623	0.761253	11.95118	0.136166
New.Referenc	10	11	63	28	0.842374	0.225095	3.116717	1
338757	15	8	55	19	3.414346	0.899181	14.12205	0.075768
196392	1	12	1	23	0.044672	0.000939	0.369996	0.000634
New.Referenc	11	18	25	89	0.26278	0.055982	1.072711	0.065387
172163	16	14	77	93	1.457066	0.368436	5.978432	0.75753
163857	3	10	3	28	0.202289	0.030007	0.984205	0.047176
New.Referenc	6	6	20	10	1	0.217548	4.596696	1
552380	17	12	113	34	2.542337	0.644816	10.95019	0.221401
33112	15	13	56	61	1.430789	0.375673	5.60812	0.763104
New.Referenc	8	4	21	4	2.482226	0.537136	13.54337	0.314098
New.Referenc	12	20	22	86	0.170568	0.025393	0.820381	0.023043

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al administrated) group at T2. DA OTUs were used to be plotted in the Venn diagram (Figure 4).

	fisherAdjP	(Intercept)	ATB_GROUnormFacto	pvalues	adjPvalues	Kingdom	Phylum	Class	
5	0.086825	0.161868	3.729861	-2.88301	7.77E-07	0.000383	k__Bacteri	__Firmicu c__Clostrid	
6	0.086825	0.556401	3.570792	-2.34326	6.70E-07	0.000383	k__Bacteri	__Firmicu c__Clostrid	
7		1	3.842973	-3.27958	6.84169	2.43E-05	0.005986	k__Bacteri	__Firmicu c__Clostrid
8	0.086825	0.7276	2.768407	-2.03634	4.30E-06	0.001414	k__Bacteri	__Firmicu c__Clostrid	
9	0.764341	0.856655	2.685153	3.38468	0.000274	0.015985	k__Bacteri	__Firmicu c__Clostrid	
10		1	2.713961	2.464047	-0.60448	0.000225	0.014782	k__Bacteri	__Proteokc__Gamma
11	0.093213	1.321723	2.44588	1.366889	0.002206	0.038834	k__Bacteri	__Firmicu c__Clostrid	
12		1	3.962281	-2.35896	3.388903	0.001816	0.033783	k__Bacteri	__Bacteroc__Bactero
13		1	4.042915	-2.24932	3.941385	0.000772	0.025879	k__Bacteri	__Proteokc__Deltapr
14	0.793609	0.965188	2.244146	-0.68754	0.00106	0.027462	k__Bacteri	__Firmicu c__Clostrid	
15	0.793609	3.046579	-2.1598	3.583779	0.000945	0.027164	k__Bacteri	__Bacteroc__Bactero	
16		1	1.117489	2.135875	-1.55776	0.0009	0.026932	k__Bacteri	__Firmicu c__Clostrid
17		1	8.64474	-2.11102	1.121619	0.001806	0.033783	k__Bacteri	__Firmicu c__Clostrid
18	0.445496	1.481243	1.994803	-0.45821	5.62E-05	0.007697	k__Bacteri	__Firmicu c__Clostrid	
19	0.398291	1.633588	1.900495	1.400508	0.001781	0.033783	k__Bacteri	__Bacteroc__Bactero	
20		1	0.594625	1.890188	-2.41206	0.000292	0.015985	k__Bacteri	__Firmicu c__Erysipel
21	0.728948	0.683928	1.872338	-0.90885	0.000711	0.025033	k__Bacteri	__Firmicu c__Clostrid	
22		1	1.579406	1.862811	-1.10691	5.16E-05	0.007697	k__Bacteri	__Firmicu c__Clostrid
23	0.117469	0.447763	1.849519	0.837276	0.000308	0.015985	k__Bacteri	__Firmicu c__Clostrid	
24	0.985935	1.970617	-1.80502	3.419455	6.25E-05	0.007697	k__Bacteri	__Bacteroc__Bactero	
25	0.764341	0.549474	1.786997	-0.5069	0.001086	0.027462	k__Bacteri	__Firmicu c__Clostrid	
26	0.086825	1.155387	1.785689	0.783911	0.001397	0.031311	k__Bacteri	__Firmicu c__Clostrid	
27		1	2.185692	1.773093	-2.49905	0.000493	0.020256	k__Bacteri	__Bacteroc__Bactero
28		1	2.835389	-1.77027	0.1964	0.000866	0.026932	k__Bacteri	__Firmicu c__Clostrid
29	0.793609	2.910258	-1.76554	-2.02472	0.000337	0.016517	k__Bacteri	__Proteokc__Gamma	
30		1	3.875707	-1.72819	3.882608	0.000112	0.009169	k__Bacteri	__Firmicu c__Clostrid
31	0.516035	1.138665	1.727435	-0.37934	9.51E-05	0.008524	k__Bacteri	__Firmicu c__Clostrid	
32	0.793609	0.709056	1.725463	0.057723	0.002042	0.037287	k__Bacteri	__Firmicu c__Clostrid	
33	0.325535	4.942659	-1.67758	-1.45742	0.001774	0.033783	k__Bacteri	__Firmicu c__Clostrid	
34		1	2.923549	-1.65778	1.911069	0.000976	0.027164	k__Bacteri	__Proteokc__Epsilon
35	0.377007	1.004843	1.632588	-1.29474	0.000787	0.025879	k__Bacteri	__Firmicu c__Clostrid	
36	0.516035	0.858297	1.629405	0.377353	0.002843	0.046715	k__Bacteri	__Bacteroc__Bactero	
37		1	3.796092	-1.62	2.988893	8.81E-05	0.008524	k__Bacteri	__Bacteroc__Bactero
38		1	1.483074	1.615706	-0.55828	0.00019	0.013351	k__Bacteri	__Firmicu c__Clostrid
39	0.163393	0.838533	1.588493	-0.55166	0.000435	0.018667	k__Bacteri	__Firmicu c__Clostrid	
40		1	3.704113	-1.49653	-0.31866	0.001346	0.031311	k__Bacteri	__Firmicu c__Clostrid
41	0.627789	0.589991	1.470663	0.436409	0.000284	0.015985	k__Bacteri	__Proteokc__Gamma	
42		1	1.863444	-1.46509	0.560347	9.05E-05	0.008524	k__Bacteri	__Firmicu c__Clostrid
43	0.296356	0.813266	1.431521	0.217706	0.000992	0.027164	k__Bacteri	__Firmicu c__Clostrid	
44		1	1.835766	1.423369	-2.49008	0.001541	0.032306	k__Bacteri	__Bacteroc__Bactero
45	0.793609	1.165323	1.40928	-2.43385	0.000352	0.016517	k__Bacteri	__Firmicu c__Clostrid	
46	0.516035	1.111909	1.399823	-1.01365	0.002198	0.038834	k__Bacteri	__Firmicu c__Clostrid	
47	0.895644	2.079928	-1.38708	2.429745	0.001239	0.030541	k__Bacteri	__Bacteroc__Bactero	
48		1	0.838473	1.375658	-0.71928	0.001021	0.027206	k__Bacteri	__Firmicu c__Clostrid
49	0.764341	0.558099	1.323032	-0.93539	0.002563	0.042896	k__Bacteri	__Bacteroc__Bactero	
50	0.793609	2.116086	-1.26524	2.862599	0.000421	0.018667	k__Bacteri	__Firmicu c__Clostrid	
51	0.117469	0.555615	1.252809	1.469641	0.001501	0.032306	k__Bacteri	__Firmicu c__Clostrid	
52	0.895644	0.37678	1.251438	0.152256	0.000177	0.013351	k__Bacteri	__Bacteroc__Bactero	
53		1	5.545919	-1.23911	0.64712	0.001536	0.032306	k__Bacteri	__Bacteroc__Bactero

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2	0.793609	2.199423	-1.23159	1.71148	0.000614	0.022463	k__Bacteriæp__Bacteroc__Bactero	
3	1	2.695467	-1.22774	0.506165	0.002262	0.039127	k__Bacteriæp__Bacteroc__Bactero	
4	0.627789	1.77926	-1.21193	2.500341	0.000901	0.026932	k__Bacteriæp__Firmicu c__Bacilli	
5	0.093213	0.152276	1.202495	0.402378	4.00E-05	0.007697	k__Bacteriæp__Firmicu c__Clostrid	
6	0.627789	1.22841	1.158074	-0.87795	0.0006	0.022463	k__Bacteriæp__Bacteroc__Bactero	
7	1	2.264696	-1.13525	3.911817	0.002567	0.042896	k__Bacteriæp__Firmicu c__Clostrid	
8	0.581443	0.378948	1.118694	0.541702	0.000615	0.022463	k__Bacteriæp__Proteokc__Gamma	
9	1	1.345814	-1.10069	2.733284	0.001573	0.032306	k__Bacteriæp__Firmicu c__Clostrid	
10	0.985935	2.666208	-1.03174	-0.55548	0.001357	0.031311	k__Bacteriæp__Firmicu c__Clostrid	
11	1	1.504099	0.988688	-2.84919	0.001396	0.031311	k__Bacteriæp__Firmicu c__Clostrid	
12	1	1.647795	-0.98704	-0.64511	0.003018	0.048779	k__Bacteriæp__Bacteroc__Bactero	
13	0.445496	1.27443	0.912753	0.118669	0.001808	0.033783	k__Bacteriæp__Firmicu c__Clostrid	
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	Order	Family	Genus	Species
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5	o_Clostrid	f__	g__	s__
6	o_Clostrid	f__Lachnos	g__Coprocc	s__
7	o_Clostrid	f__Rumino	g__	s__
8	o_Clostrid	f__Christen	g__	s__
9	o_Clostrid	f__Rumino	g__	s__
10	o_Clostrid	f__Rumino	g__	s__
11	o_Aeromcf	_Succiniv	g__Succiniv	s__
12	o_Clostrid	f__Rumino	g__	s__
13	o_Bacterof	_Bactero	ig__Bactero	s__barnesia
14	o_GMD14	f__	g__	s__
15	o_Clostrid	f__Lachnos	g__	s__
16	o_Bacterof	_Prevotel	g__Prevote	s__
17	o_Clostrid	f__	g__	s__
18	o_Clostrid	f__Lachnos	g__Rosebu	s__
19	o_Clostrid	f__Rumino	g__	s__
20	o_Bacterof	_S24-7	g__	s__
21	o_Erysipel	f__Erysipel	g__p-75-a5	s__
22	o_Clostrid	f__Lachnos	g__	s__
23	o_Clostrid	f__	g__	s__
24	o_Clostrid	f__Rumino	g__Rumino	s__
25	o_Bacterof	_Prevotel	g__Prevote	s__
26	o_Clostrid	f__	g__	s__
27	o_Clostrid	f__Lachnos	g__Coprocc	s__
28	o_Bacterof	_Prevotel	g__Prevote	s__copri
29	o_Clostrid	f__Veillon	eg__Mitsuol	s__multacida
30	o_Pasteurf	_Pasteur	g__Actinob	s__
31	o_Clostrid	f__Rumino	g__	s__
32	o_Clostrid	f__Rumino	g__	s__
33	o_Clostrid	f__	g__	s__
34	o_Clostrid	f__Rumino	g__	s__
35	o_Campyl	f__Campyl	g__Campyl	s__
36	o_Clostrid	f__	g__	s__
37	o_Bacterof	_Bactero	ig__Bactero	s__
38	o_Bacterof	_Parapr	g__	s__
39	o_Clostrid	f__Veillon	eg__Anaero	s__
40	o_Clostrid	f__Rumino	g__	s__
41	o_Clostrid	f__	g__	s__
42	o_Aeromcf	_Succiniv	g__Succiniv	s__
43	o_Clostrid	f__	g__	s__
44	o_Clostrid	f__Lachnos	g__Coprocc	s__
45	o_Bacterof	_Prevotel	g__Prevote	s__copri
46	o_Clostrid	f__Lachnos	g__	s__
47	o_Clostrid	f__Lachnos	g__	s__
48	o_Bacterof	_Prevotel	g__Prevote	s__
49	o_Clostrid	f__	g__	s__
50	o_Bacterof	_RF16	g__	s__
51	o_Clostrid	f__Rumino	g__	s__
52	o_Clostrid	f__Lachnos	NA	NA
53	o_Bacterof	_Prevotel	g__Prevote	s__copri
54	o_Bacterof	_Prevotel	g__Prevote	s__copri
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1 o__Bacterof__Prevoteg__Prevotes__
2 o__Bacterof__Prevoteg__Prevotes__
3 o__Lactobaf__Lactobag__Lactobas__mucosae
4 o__Clostridf__Rumino:g__s__
5 o__Bacterof__Prevoteg__Prevotes__copri
6 o__Clostridf__g__s__
7 o__Aeromcf__Succinivg__Succinivs__
8 o__Clostridf__g__s__
9 o__Clostridf__Rumino:g__Ruminos__
10 o__Clostridf__Rumino:g__s__
11 o__Bacterof__Prevoteg__Prevotes__copri
12 o__Clostridf__Rumino:g__s__
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