

Supplementary Material

Lung microbiota predict invasive pulmonary aspergillosis and its outcome in immunocompromised patients

Anaïs Hérivaux, Jesse R. Willis, Toine Mercier, Katrien Lagrou, Samuel M. Gonçalves, Relber

A. Gonçalves, Johan Maertens, Agostinho Carvalho, Toni Gabaldón, Cristina Cunha

Supplementary Methods

BAL collection and processing

Neutropenic patients or patients that were otherwise immunosuppressed with fever not responding to 4-5 days of broad-spectrum antibiotics, or with an abnormal chest X-ray, or with signs and symptoms suggestive of fungal infection (e.g., dyspnea, hemoptysis, dry cough, pleuritic chest pain) or with a positive serum galactomannan index (≥ 0.5) underwent high resolution or spiral chest CT-scan. In case of abnormal radiological features, patients underwent bronchoscopy and BAL specimens were collected by instillation of a 0.9% sterile saline solution using a flexible fiberoptic bronchoscope following local anesthesia with 2% lidocaine (Xylocaine). The sampling area was determined based on the localization of lesions on chest imaging. BAL specimens with comparable recovery rates were used. Bacterial DNA was extracted, amplified, and sequenced according to previously published protocols ¹ at Microomics Systems, Spain. Sequencing was performed using the Illumina MiSeq platform.

Galactomannan testing

The Platelia *Aspergillus* EIA (Bio-Rad, Marnes-la-Coquette, France) was used during routine microbiological workup to detect the presence of galactomannan on uncentrifuged BAL specimens, as described previously ². The enzyme immunoassay data was expressed as galactomannan index.

ELISA

Cytokines were quantified in BAL samples using customized Human Premixed Multi-Analyte Kits (R&D Systems, MN, USA). All cytokine determinations were performed in duplicates, and concentrations were reported in pg/mL.

Sequencing quality control

Samples were filtered using the FastQ Toolkit utility using a threshold of PHRED quality q10, and the first 16 bases of all sequences were eliminated by removing the sequence homology of the

PCR primers described in the Illumina protocol. The sequencing reads assigned to each of the samples ranged between 5,766–348,106 useful sequences after filtering and quality trimming. The depth of sequencing achieved for each of the samples allowed to cover much of the species diversity and guaranteed the absence of bias in this regard, allowing establishing levels of alpha diversity (intragroup) and beta diversity (intergroup). These curves resulted in a typical plateau of metagenomes with optimal coverage levels, and a further increase in the number of sequences was not accompanied by an increase in the number of operational taxonomic units (OTUs)³. The sequencing depth level allowed covering not only the most represented taxa (core community), but also the less frequent. The quality level of the resulting reads allowed the identification of significant hits in more than 70% of cases at the genus level in the majority of the samples.

Pre-processing of 16S rRNA sequence reads

Raw sequence reads were processed by following the pipeline for the DADA2 R package (version 1.10.1)⁴ to obtain counts of amplicon sequence variants (ASVs). Sequence taxonomy was assigned using the DADA2-formatted database of sequences derived from the SILVA database version 132⁵. The resulting ASV counts were stored along with metadata for samples and analyzed using the Phyloseq R package (version 1.26.1)⁶. A phylogenetic tree of the organisms present in the dataset was approximated following a workflow⁷ which relies on the DECIPHER (version 2.10.2)⁸ and phangorn (version 2.5.5)⁹ R packages. Only samples with at least 1,000 total counts after processing with DADA2 were retained. ASV counts were normalized per sample to give the relative abundance of each taxon within a sample. Blank controls were treated as the other samples, but these failed to produce any amplicon band and library, and were not subsequently sequenced. As part of a quality control check, we also included four sequenced runs of mock communities, two with even mixtures of organisms (HM277D and HM782D), and two with staggered mixtures (HM278D and HM783D). A breakdown of the proportions of taxa that are expected in each sample, and the real abundances found in our sequencing runs is shown in supplementary file 1.

Diversity measures

The *estimate_richness* function from the *Phyloseq* package was used to calculate alpha diversity measures. For beta diversity, the *vegdist* function from the *vegan* R package (version 2.5-5)¹⁰ was used to obtain both the Bray-Curtis and the Jaccard distances.

Identification of discriminant abundance profiles

The bacterial abundance profiles were calculated at taxonomic levels from phylum to genus using the linear discriminant analysis effect size (LEfSe) pipeline¹¹. Biological consistency was investigated with a set of pairwise tests among subclasses using the unpaired Wilcoxon rank sum test. LDA was used to estimate the effect size of each differentially abundant trait (a threshold of 3.0 or -3.0 was used for logarithmic LDA scores).

Statistical analyses

Multiple versions of the linear model used to test the associations between variables and particular taxa were tested to check for potential confounding variables. Along with the four fixed effects mentioned (case/control, age, gender, and sequencing batch), models that also included antibiotic use, steroid use, lymphocyte counts, as well as a model with all seven variables together, were separately tested. None of these additional models indicated any batch effects, so the results presented are based on the original model. Model assumptions were checked for each reported model using the *plot* R function on the linear model object. The residuals vs fitted plot showed that the models held to the linearity and homoscedasticity assumptions. The QQ plot showed that the models held to the normality assumption. The scale-location plot further ensured homoscedasticity. The Cook's distance plot showed that there were no overly influential data points impacting the model. The results presented are based on the model including the variables case/control, gender, age, and sequencing date. The p-values from the model were adjusted using the "fdr" option in the *p.adjust* function from the *stats* R package (version 3.6.3)¹². Figures were generated using the *ggplot2* R package (version 3.3.0)¹³. For outcome analyses, hazard ratios were calculated using the *coxph* function from the *survival* R package (version 3.2-7)¹⁴, which fits a Cox proportional hazards regression model to a survival object, created with the *Surv*

function from the same package. The survival object considers the time to date of last follow-up or death, along with the outcome, either alive or deceased.

References

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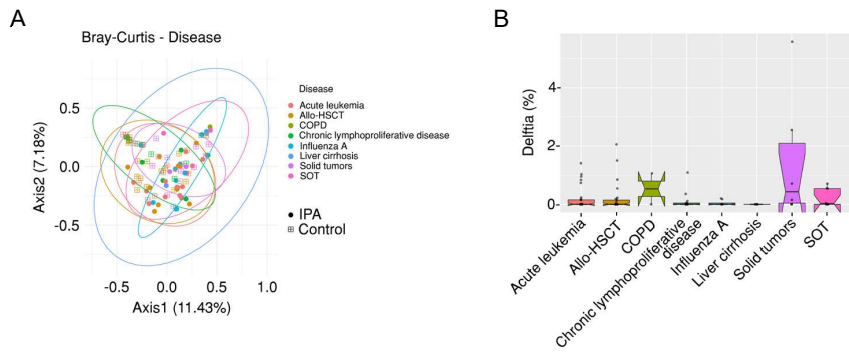


Figure S1. The underlying disease does not influence the lung microbiome. A) Principal coordinate analysis between cases of IPA and controls based on the Bray-Curtis dissimilarity metric according to the different underlying diseases in the cohort. Circles indicate cases of IPA and squares indicate controls, and the underlying diseases are identified by different colors. B) Relative abundance of *Delftia* (%) in the overall cohort grouped according to the underlying disease.

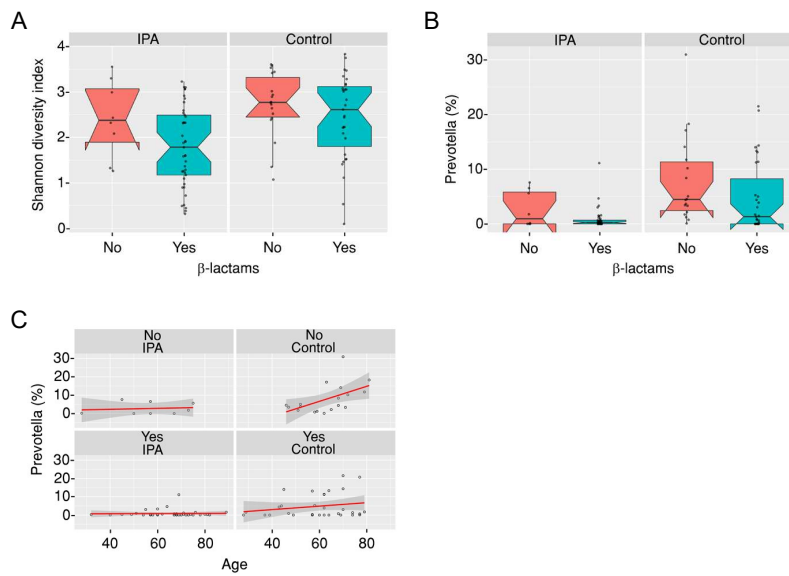


Figure S2. The microbiome in IPA is not affected by β -lactam antibiotics. Boxplots illustrating A) the alpha diversity (measured by the Shannon diversity index) of the lung microbiome and B) the relative abundance of *Prevotella* (%) among patients receiving (Yes) or not (No) β -lactams grouped according to the infection status (IPA and controls). Median values and interquartile ranges are indicated in the plots. C) Association analysis between the relative abundance of *Prevotella* (%) and the age of the patients in the overall cohort among patients receiving (Yes) or not (No) β -lactams grouped according to the infection status (IPA and controls).

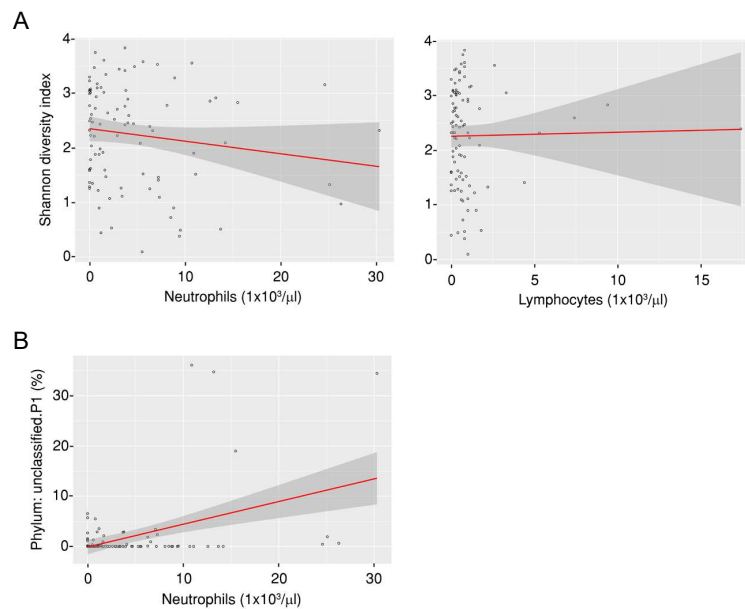


Figure S3. Immune cell counts are not associated with microbiome diversity. A) Association analysis between the alpha diversity (measured by the Shannon diversity index) of the lung microbiome and the number of neutrophils and lymphocytes (expressed as $1 \times 10^3/\mu\text{l}$) in BAL samples from the overall cohort. B) Association analysis between the relative abundance of unclassified taxa at the phylum level (%) with the number of neutrophils (expressed as $1 \times 10^3/\mu\text{l}$) in BAL samples from the overall cohort.

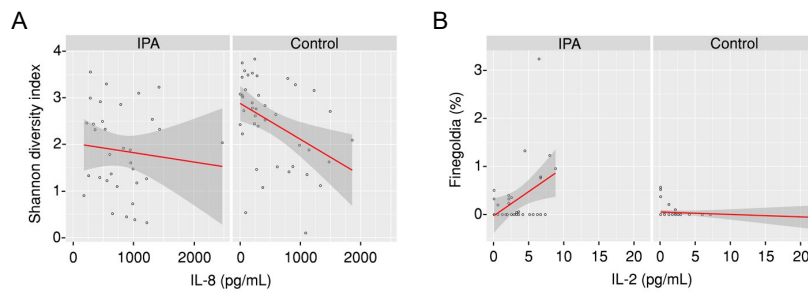


Figure S4. Alveolar cytokines promote IPA-specific effects on microbiome composition. A) Association analysis between the alpha diversity (measured by the Shannon diversity index) and the levels of IL-8 in BAL samples from cases of IPA and control patients. B) Association analysis between the abundance of *Finegoldia* (%) and the levels of IL-2 in BAL samples from cases of IPA and control patients.

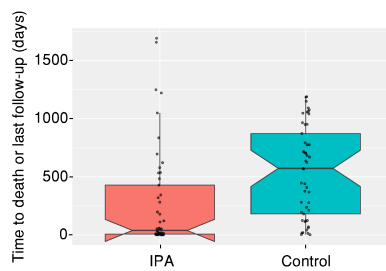


Figure S5. Time to death or last follow-up is shorter in IPA. Boxplot illustrating the time to death or date of last follow-up (days) among cases of IPA and control patients. Median values and interquartile ranges are indicated in the plots.

Table S1. Levels of alveolar cytokines and chemokines in cases of IPA and controls.

Analytes, mean (pg/mL, range)	IPA (n=38)	Controls (n=41)	P value
IL-1 α	12.2 (0.01-86.8)	2.9 (0.0-28.4)	<0.001
IL-1 β	266.2 (1.2-1270.0)	90.2 (1.5-854.6)	0.002
IL-1RA	15584.0 (33.1-96754.4)	16120.0 (344.6-136777.7)	0.78
IL-2	3.8 (0.1-8.8)	1.8 (0.1-21.3)	<0.001
IL-4	0.8 (0.01-11.6)	0.5 (0.01-5.9)	0.80
IL-5	4.1 (0.1-9.9)	2.5 (0.1-20.5)	<0.001
IL-6	1039.0 (4.7-4938.2)	264.2 (0.02-3851.4)	0.001
IL-7	3.3 (0.01-19.5)	1.4 (0.01-8.0)	0.03
IL-8	808.6 (179.0-2472.0)	511.9 (2.4-1859.2)	0.002
IL-9	0.7 (0.6-3.3)	0.7 (0.6-5.1)	0.83
IL-10	1.2 (0.04-7.0)	1.9 (0.1-27.8)	0.87
IL-12p70	1.0 (0.5-2.5)	1.0 (0.4-4.9)	0.09
IL-13	0.8 (0.10-3.4)	0.7 (0.1-3.8)	0.20
IL-15	0.9 (0.70-5.8)	1.0 (0.7-8.9)	0.67
IL-17A	2.5 (0.30-14.90)	0.5 (0.30-3.6)	<0.001
IL-18	36.5 (0.7-233.7)	65.4 (0.7-443.3)	0.30
IL-21	10.3 (0.10-58.3)	3.5 (0.10-65.9)	0.02
IL-22	4.9 (0.1-78.5)	2.4 (0.1-47.2)	0.05
IL-23	10.2 (0.1-74.4)	4.9 (0.2-13.9)	0.004
IL-27	8.2 (0.8-28.9)	4.51 (0.80-19.4)	0.16
IL-31	4.0 (0.30-17.3)	1.1 (0.30-11.5)	0.01
Eotaxin	26.0 (1.7-128.2)	11.6 (0.4-55.4)	0.004
GM-CSF	5.6 (0.20-124.0)	0.5 (0.20-8.6)	0.005
GRO.A	133.3 (0.6-351.8)	128.9 (0.0-271.2)	0.82
IFN- α	0.1 (0.10-0.3)	1.7 (0.10-58.50)	0.50
IFN- γ	14.9 (0.10-82.7)	41.9 (0.10-746.2)	0.23
IP10	320.1 (2.1-1863.3)	284.6 (0.99-2160.9)	0.55
MCP-1	842.3 (114.3-2207.0)	462.0 (23.3-1198.7)	<0.001
MCP-1A	62.5 (0.4-437.3)	39.8 (0.01-303.6)	0.10
MCP-1B	320.1 (19.7-2575.9)	305.3 (5.0-4439.5)	0.34
RANTES	13.8 (1.1-103.7)	6.0 (0.1-30.9)	0.004
SDF-1A	483.6 (31.5-1102.5)	469.5 (7.9-928.7)	0.82
TNF- α	21.5 (0.30-592.0)	2.0 (0.30-25.5)	0.05
TNF- β	4.9 (0.10-110.6)	3.7 (0.10-104.1)	0.76

IPA, invasive pulmonary aspergillosis; IL, interleukin; GM-CSF, granulocyte-macrophage colony-stimulating factor; GRO.A, human growth-regulated oncogene A; IFN, interferon; IP10, interferon gamma-induced protein 10; MCP, monocyte chemoattractant protein; RANTES, regulated on activation, normal T cell expressed and secreted; SDF-1A, stromal cell-derived factor 1A; TNF: tumor necrosis factor. P values were calculated by Mann-Whitney's test or Student's t-test.

Table S2. Significant associations between analytes and the abundance of bacterial taxa.

Analyte	Bacterial taxa	Association	P value
IL-1 β	<i>Staphylococcus</i>	Negative	0.05
IL-1RA	<i>Streptococcus</i>	Positive	0.01
	<i>Lactobacillales</i>	Positive	0.01
IL-2	<i>Bifidobacterium</i>	Positive	<0.001
	<i>Finegoldia</i>	Positive	0.04
	<i>Halomonas</i>	Positive	0.003
IL-5	<i>Bifidobacterium</i>	Positive	<0.001
	<i>Unclassified.P1</i>	Positive	0.006
IL-6	<i>Atopostipes</i>	Positive	0.001
	<i>Bifidobacterium</i>	Positive	<0.001
	<i>Curvibacter</i>	Positive	0.04
	<i>Finegoldia</i>	Positive	<0.001
	<i>Halomonas</i>	Positive	<0.001
	<i>Paraclostridium</i>	Positive	<0.001
	Unclassified.P1	Positive	<0.001
IL-7	<i>Staphylococcus</i>	Positive	0.002
	<i>Acetobacteraceae</i>	Positive	<0.001
	<i>Bacillales</i>	Positive	0.005
IL-8	<i>Acinetobacter</i>	Negative	0.004
	<i>Delftia</i>	Negative	0.03
	<i>Renibacterium</i>	Negative	0.009
	<i>Sphingomonas</i>	Negative	0.003
	<i>Alphaproteobacteria</i>	Negative	0.02
IL-10	<i>Bifidobacterium</i>	Positive	<0.001
IL-12p70	<i>Bifidobacterium</i>	Positive	<0.001
	<i>Sphingomonas</i>	Negative	0.008
	<i>Alphaproteobacteria</i>	Negative	0.006
	<i>Clostridia</i>	Negative	0.03
IL-13	<i>Bifidobacterium</i>	Positive	0.002
	<i>Capnocytophaga</i>	Positive	<0.001
	<i>Porphyromonas</i>	Positive	0.006
	<i>Sphingomonas</i>	Negative	0.01
IL-18	<i>Sphingomonas</i>	Negative	0.05
IL-22	<i>Corynebacterium</i>	Positive	<0.001
	<i>Corynebacteriaceae</i>	Positive	<0.001
IL-23	<i>Enterococcus</i>	Positive	<0.001
	<i>Actinobacteria</i>	Negative	0.04
IL-27	<i>Sphingomonas</i>	Negative	0.02

	<i>Actinobacteria</i>	Negative	0.005
	<i>Alphaproteobacteria</i>	Negative	0.01
Eotaxin	<i>Staphylococcus</i>	Positive	<0.001
	<i>Proteobacteria</i>	Negative	0.04
GRO.A	<i>Acinetobacter</i>	Negative	0.002
	<i>Delftia</i>	Negative	0.02
	<i>Sphingomonas</i>	Negative	0.02
	<i>Variovorax</i>	Negative	0.01
	<i>Alphaproteobacteria</i>	Negative	0.04
	<i>Patescibacteria</i>	Positive	0.005
MCP-1	<i>Anaerococcus</i>	Positive	0.003
	<i>Ferruginibacter</i>	Negative	0.003
	<i>Fingoldia</i>	Positive	0.003
	<i>Halomonas</i>	Positive	0.002
	<i>Sphingomonas</i>	Negative	0.02
MCP-1A	<i>Pseudomonas</i>	Positive	<0.001
	<i>Sphingomonadaceae</i>	Negative	0.05
MCP-1B	<i>Pseudomonas</i>	Positive	0.02
	<i>Streptococcus</i>	Positive	0.003
RANTES	<i>Escherichia</i>	Positive	0.002
	Unclassified.P1	Positive	0.01
SDF-1A	<i>Acinetobacter sp.</i>	Negative	0.001
	<i>Delftia sp.</i>	Negative	0.04
	<i>Renibacterium sp.</i>	Negative	0.004
	<i>Sphingomonas sp.</i>	Negative	0.009
	<i>Variovorax sp.</i>	Negative	0.01
	<i>Chitinophagaceae</i>	Negative	0.002
	<i>Rhizobiales</i>	Negative	0.02
	<i>Alphaproteobacteria</i>	Negative	0.02

IPA, invasive pulmonary aspergillosis; IL, interleukin; GRO.A, human growth-regulated oncogene A; MCP, monocyte chemoattractant protein; RANTES, regulated on activation, normal T cell expressed and secreted; SDF-1A, stromal cell-derived factor 1A.

Supplementary File 1

	mock.genera.copies			
	Even	Staggered	Even	Staggered
Acinetobacter	5	0,22	HM277D	HM278D
Actinomyces	5	0,02	HM782D	HM783D
Bacillus	5	2,19		
Bacteroides	5	0,02		
Clostridium	5	2,19		
Deinococcus	5	0,02		
Enterococcus	5	0,02		
Escherichia	5	21,91		
Helicobacter	5	0,22		
Lactobacillus	5	0,22		
Listeria	5	0,22		
Neisseria	5	0,22		
Propionibacterium	5	0,22		
Pseudomonas	5	2,19		
Rhodobacter	5	21,91		
Staphylococcus	10	24,1		
Streptococcus	15	24,12		

mock_rel_abunds

	HM277D	HM278D	HM782D	HM783D	Even	Staggered
Acinetobacter	5,67893933	0,28665287	3,98827913	0,23108062	HM277D	HM278D
Actinomyces	1,83202721	0,01433264	2,01535381	0,01670462	HM782D	HM783D
Bacillus	5,30188772	2,23015932	4,64790973	2,41882945		
Bacteroides	8,8885603	0,06936999	8,14494637	0,05735254		
Bifidobacterium	0	0	0	0,00334092		
Brucella	0	0	0	0,00167046		
Clostridium	5,40884223	2,07422016	4,46626271	1,92381578		
Corynebacterium	0,00542166	0	0,00530356	0		
Cutibacterium	1,24402386	0,06535685	1,39815171	0,08686404		
Deinococcus	2,09719552	0,01261273	3,35118866	0,0295115		
Enterococcus	3,30080339	0,05790388	2,64051126	0,06514803		
Escherichia	6,16885997	22,243116	6,53200037	23,5301324		
Granulicatella	0	0,04299793	0	0		
Helicobacter	9,50268618	0,57674557	11,7951234	0,51060465		
Lactobacillus	6,31475184	0,32047791	5,22997574	0,34411524		
Leptotrichia	0	0	0	0,01503416		
Listeria	5,45024397	0,2098299	5,54288593	0,21326236		
Neisseria	7,36113165	0,3697822	9,0989247	0,39534275		
Paraclostridium	0	0	0	0,00501139		
Pseudomonas	1,87540046	0,81409415	4,30980761	1,48058644		
Rhodobacter	2,050865	8,17992627	2,54438419	9,87911421		
Rothia	0	0	0,0072924	0,0027841		
Serratia	0	0	0,16109572	0		
Staphylococcus	12,9454384	32,0477908	11,7467284	27,4401278		
Streptococcus	14,5729213	30,3341799	12,3294573	31,2911003		
unclassified.Bacteria.Firmicutes.Bacilli.Bacillales.unclassified	0	0,00057331	0	0		
Veillonella	0	0,0498776	0,04441734	0,05846618		

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	HM277D	HM278D	HM782D	HM783D
Acinetobacter	5,67893933	0,28665287	3,98827913	0,23108062
Actinomyces	1,83202721	0,01433264	2,01535381	0,01670462
Bacillus	5,30188772	2,23015932	4,64790973	2,41882945
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Staphylococcus	12,9454384	32,0477908	11,7467284	27,4401278
Streptococcus	14,5729213	30,3341799	12,3294573	31,2911003

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Staphylococcus	12,9454384	32,0477908	11,7467284	27,4401278
Streptococcus	14,5729213	30,3341799	12,3294573	31,2911003

Bad.mock.rel_abunds

	HM277D	HM278D	HM782D	HM783D	Even	Staggered
Bifidobacterium	0	0	0	0,00334092	HM277D	HM278D
Brucella	0	0	0	0,00167046	HM782D	HM783D
Corynebacterium	0,00542166	0	0,00530356	0		
Cutibacterium	1,24402386	0,06535685	1,39815171	0,08686404		
Granulicatella	0	0,04299793	0	0		
Leptotrichia	0	0	0	0,01503416		
Paraclostridium	0	0	0	0,00501139		
Rothia	0	0	0,0072924	0,0027841		
Serratia	0	0	0,16109572	0		
unclassified.Bacteria.Firmicutes.Bacilli.Bacillales.unclassified	0	0,00057331	0	0		
Veillonella	0	0,0498776	0,04441734	0,05846618		

mock.counts

	HM277D	HM278D	HM782D	HM783D	Even	Staggered
Acinetobacter	11522	500	6016	415	HM277D	HM278D
Actinomyces	3717	25	3040	30	HM782D	HM783D
Bacillus	10757	3890	7011	4344		
Bacteroides	18034	121	12286	103		
Bifidobacterium	0	0	0	6		
Brucella	0	0	0	3		
Clostridium	10974	3618	6737	3455		
Corynebacterium	11	0	8	0		
Cutibacterium	2524	114	2109	156		
Deinococcus	4255	22	5055	53		
Enterococcus	6697	101	3983	117		
Escherichia	12516	38798	9853	42258		
Granulicatella	0	75	0	0		
Helicobacter	19280	1006	17792	917		
Lactobacillus	12812	559	7889	618		
Leptotrichia	0	0	0	27		
Listeria	11058	366	8361	383		
Neisseria	14935	645	13725	710		
Paraclostridium	0	0	0	9		
Pseudomonas	3805	1420	6501	2659		
Rhodobacter	4161	14268	3838	17742		
Rothia	0	0	11	5		
Serratia	0	0	243	0		
Staphylococcus	26265	55900	17719	49280		
Streptococcus	29567	52911	18598	56196		
unclassified.Bacteria.Firmicutes.Bacilli.Bacillales.unclassified	0	1	0	0		
Veillonella	0	87	67	105		

Supplementary File 2

Figure	Variable	Df	Sum of Sqs	Mean Sqs	F model	R2	Pr(>F)
figure 1B (Bray-Curtis vs Case.control)	Case.Control	1	1.155	1.15548	2.9390	0.02996	0.001
	Sex	1	0.416	0.41584	1.0577	0.01078	0.319
	Age	1	0.436	0.43572	1.1083	0.01130	0.233
	Residuals	93	36.564	0.39316	0.094796		
	Total	96	38.571	1.00000			
figure 1B (Jaccard vs Case.control)	Case.Control	1	1.155	1.15548	2.9390	0.02996	0.001
	Sex	1	0.416	0.41584	1.0577	0.01078	0.322
	Age	1	0.436	0.43572	1.1083	0.01130	0.235
	Residuals	93	36.564	0.39316	0.94796		
	Total	96	38.571	1.00000			
figure 3A (Bray-Curtis vs Neutrophils) removing 4 outliers	Neutrophils	1	1.219	1.21935	3.2091	0.03399	0.001
	Case.Control	1	1.062	1.06153	2.7938	0.02959	0.001
	Sex	1	0.389	0.38921	1.0243	0.01085	0.407
	Age	1	0.526	0.52627	1.3850	0.01467	0.058
	Residuals	86	32.677	0.37996	0.91090		
Total	90	35.873	1.00000				
figure 3A (Jaccard vs Neutrophils) removing 4 outliers	Neutrophils	1	0.5692	0.56922	1.7115	0.01852	0.011
	Case.Control	1	0.7916	0.79159	2.3802	0.02575	0.001
	Sex	1	0.3952	0.39515	1.1882	0.01285	0.157
	Age	1	0.3838	0.38381	1.1541	0.01249	0.113
	Residuals	86	28.6016	0.33258	0.93039		
Total	90	30.7413	1.00000				
figure 3B (Bray-Curtis vs Lymphocytes) removing 1 outlier	Lymphocytes	1	0.400	0.40015	1.0202	0.01085	0.380
	Case.Control	1	1.054	1.05399	2.6873	0.02857	0.002
	Sex	1	0.507	0.50732	1.2935	0.01375	0.193
	Age	1	0.418	0.41796	1.0656	0.01133	0.305
	Residuals	88	34.515	0.39222	0.93551		
Total	92	36.894	1.00000				
figure 3B (Jaccard vs Lymphocytes) removing 1 outlier	Lymphocytes	1	0.4057	0.40570	1.2155	0.01289	0.072
	Case.Control	1	0.8561	0.85606	2.5649	0.02719	0.001
	Sex	1	0.4691	0.46910	1.4055	0.01490	0.059
	Age	1	0.3787	0.37872	1.1347	0.01203	0.153
	Residuals	88	29.3711	0.33376	0.93299		
Total	92	31.4807	1.00000				
figure S1A (Disease) removing 1 outlier	Disease	8	3.865	0.48308	1.2509	0.10152	0.077
	Case.Control	1	0.913	0.91350	2.3654	0.02400	0.002
	Sex	1	0.448	0.44801	1.1601	0.01177	0.213
	Age	1	0.402	0.40160	1.0399	0.01055	0.307
	Residuals	84	32.440	0.38619	0.85216		
Total	95	38.068	1.00000				

Figure	Variable	Estimate	CI (2.5)	CI (97.5)	Std Err	t value	Pr(> t)
figure 1C (Shannon vs Case.control)	Intercept	2.4556	1.5262	3.3851	0.4680	5.2473	0.0000
	Case.controlControl	0.6877	0.3349	1.0405	0.1776	3.8715	0.0002
	SexM	-0.1455	-0.5153	0.2243	0.1862	-0.7813	0.4366
	Age	-0.0052	-0.0188	0.0084	0.0068	-0.7587	0.4500
	Group_Batch1	-0.3557	-0.7060	-0.0053	0.1764	-2.0163	0.0467
figure 1C (Simpson vs Case.control)	Intercept	0.8057	0.5621	1.0493	0.1227	6.5692	0.0000
	Case.controlControl	0.1391	0.0466	0.2315	0.0466	2.9870	0.0036
	SexM	-0.0113	-0.1082	0.0856	0.0488	-0.2317	0.8173
	Age	-0.0017	-0.0053	0.0019	0.0018	-0.9458	0.3467
	Group_Batch1	-0.0748	-0.1666	0.0170	0.0462	-1.6178	0.1091
figure 1C (Species richness vs Case.control)	Intercept	62.6193	35.6817	89.5570	13.5632	4.6169	0.0000
	Case.controlControl	18.2759	8.0513	28.5005	5.1481	3.5500	0.0006
	SexM	-13.1676	-23.8850	-2.4502	5.3962	-2.4401	0.0166
	Age	0.0997	-0.2940	0.4935	0.1983	0.5031	0.6161
	Group_Batch1	-27.6323	-37.7854	-17.4791	5.1121	-5.4052	0.0000
figure 4A (Shannon vs IL- 8) removing 2 outliers	Intercept	3.0946	1.8914	4.2978	0.6027	5.1349	0.0000
	IL-8	-0.0007	-0.0012	-0.0002	0.0002	-2.8266	0.0062
	Case.controlControl	0.4124	-0.0230	0.8478	0.2181	1.8912	0.0630
	SexM	-0.1816	-0.6240	0.2609	0.2216	-0.8193	0.4156
	Age	-0.0050	-0.0222	0.0123	0.0087	-0.5731	0.5685
Group_Batch1	-0.4142	-0.8404	0.0119	0.2135	-1.9406	0.0566	
figure 4A (Shannon vs IL- 27)	Intercept	2.8463	1.7136	3.9790	0.5675	5.0157	0.0000
	IL-27	-0.0481	-0.0777	-0.0186	0.0148	-3.2565	0.0018
	Case.controlControl	0.3908	-0.0253	0.8069	0.2085	1.8749	0.0652
	SexM	-0.1100	-0.5405	0.3206	0.2157	-0.5098	0.6119
	Age	-0.0044	-0.0208	0.0120	0.0082	-0.5371	0.5930
Group_Batch1	-0.3134	-0.7295	0.1028	0.2085	-1.5031	0.1375	
figure 4C (Finegoldia vs IL- 2) removing 2 outliers	Intercept	0.3584	-0.0092	0.7260	0.1841	1.9467	0.0558
	IL-2	0.0363	0.0065	0.0661	0.0149	2.4289	0.0179
	Case.controlControl	-0.1285	-0.2685	0.0115	0.0701	-1.8328	0.0713
	SexM	0.0070	-0.1283	0.1422	0.0677	0.1027	0.9185
	Age	-0.0048	-0.0100	0.0004	0.0026	-1.8328	0.0713
Group_Batch1	0.0827	-0.0460	0.2114	0.0645	1.2824	0.2042	
figure 4C (Finegoldia vs IL- 6) removing 2 outliers	Intercept	0.3394	0.0250	0.6539	0.1575	2.1553	0.0348
	IL-6	0.0001	0.0000	0.0002	0.0000	2.4865	0.0154
	Case.controlControl	-0.1215	-0.2377	-0.0052	0.0582	-2.0867	0.0408
	SexM	-0.0046	-0.1233	0.1141	0.0595	-0.0772	0.9387
	Age	-0.0044	-0.0090	0.0001	0.0023	-1.9500	0.0554
Group_Batch1	0.1243	0.0105	0.2381	0.0570	2.1799	0.0328	
figure 5A (Shannon vs Outcome)	Intercept	2.6420	1.6641	3.6199	0.4923	5.3666	0.0000
	Non-survivor	-0.2470	-0.6580	0.1640	0.2069	-1.1939	0.2356
	Case.controlControl	0.6191	0.2491	0.9892	0.1863	3.3234	0.0013
	SexM	-0.1834	-0.5577	0.1910	0.1885	-0.9730	0.3331
	Age	-0.0043	-0.0180	0.0093	0.0069	-0.6314	0.5294
Group_Batch1	-0.3698	-0.7201	-0.0194	0.1764	-2.0965	0.0388	
figure S1B (Delftia vs disease) removing 1 outlier	Intercept	0.4254	-0.1040	0.9548	0.2662	1.5981	0.1138
	Disease_Allo-HSCT	-0.0214	-0.2594	0.2167	0.01197	-0.1787	0.8586
	Disease_COPD	0.1391	-0.4759	0.7541	0.3092	0.4498	0.6540
	Disease_Chronic lymph... disease	-0.0773	-0.3523	0.1977	0.1383	-0.5589	0.5778
	Disease_AML	-0.6013	-1.5066	0.3040	0.4552	-1.3212	0.1901
	Disease_Influenza	-0.0636	-0.4086	0.2814	0.1734	-0.3665	0.7149
	Disease_Cirrhosis	-0.3561	-0.7664	0.0542	0.2063	-1.7262	0.0880
	Disease_Solid tumor	0.2608	-0.1531	0.6747	0.2081	1.2532	0.2137

	Disease_SOT	-0.1163	-0.4612	0.2286	0.1734	-0.6707	0.5043
	Case.controlControl	0.0876	-0.0954	0.2707	0.0920	0.9521	0.3438
	SexM	0.0233	-0.1599	0.2065	0.0921	0.2532	0.8007
	Age	-0.0067	-0.0142	0.0008	0.0038	-1.7823	0.0784
	Group_Batch1	0.3634	0.1770	0.5498	0.0937	3.8773	0.0002
figure S2A (Shannon vs β.lactam)	Intercept	2.7828	1.8249	3.7407	0.4822	5.7706	0.0000
	β.lactamYes	-0.4431	-0.8445	-0.0418	0.2021	-2.1931	0.0309
	Case.controlControl	0.5989	0.2439	0.9539	0.1787	3.3509	0.0012
	SexM	-0.0911	-0.4568	0.2747	0.1841	-0.4945	0.6221
	Age	-0.0047	0.0181	0.0086	0.0067	-0.7076	0.4810
	Group_Batch1	-0.3999	-0.7456	-0.0543	0.1740	-2.2982	0.0238
figure S2B (Prevotella vs β- lactam)	Intercept	-1.4241	-7.2511	4.4029	2.9335	-0.4855	0.6285
	β.lactamYes	-2.7435	-5.1852	-0.3019	1.2292	-2.2320	0.0281
	Case.controlControl	4.6860	2.5266	6.8455	1.0871	4.3104	0.0000
	SexM	-0.9635	-3.1884	1.2615	1.1201	-0.8602	0.3920
	Age	0.0963	0.0152	0.1773	0.0408	2.3600	0.0204
	Group_Batch1	-1.5219	-3.6246	0.5809	1.0586	-1.4376	0.1540
figure S2C (Prevotella vs Age)	Intercept	-3.4495	-9.1086	2.2095	2.8493	-1.2106	0.2291
	Age	0.0935	0.0108	0.1762	0.0416	2.2455	0.0271
	Case.controlControl	5.2360	3.0881	7.3840	1.0815	4.8414	0.0000
	SexM	-1.3003	-3.5518	0.9512	1.1336	-1.1470	0.2543
	Group_Batch1	-1.2477	-3.3807	0.8852	1.0740	-1.1618	0.2483
figure S3A (Shannon vs Neutrophils)	Intercept	2.3540	1.4027	3.3052	0.4784	4.9203	0.0000
	Neutrophils	0.0000	-0.0001	0.0000	0.0000	-1.1187	0.2664
	Case.controlControl	0.6166	0.2522	0.9811	0.1833	3.3643	0.0012
	SexM	-0.1925	-0.5767	0.1916	0.1932	-0.9966	0.3218
	Age	-0.0010	-0.0154	0.0134	0.0073	-0.1375	0.8909
	Group_Batch1	-0.2994	-0.6657	0.0669	0.1842	-1.6251	0.1078
figure S3A (Shannon vs Lymphocytes)	Intercept	2.3778	1.4292	3.3264	0.4773	4.9821	0.0000
	Lymphocytes	0.0000	-0.0001	0.0001	0.0001	-0.1156	0.9083
	Case.controlControl	0.6376	0.2747	1.0006	0.1826	3.4916	0.0008
	SexM	-0.1900	-0.5780	0.1979	0.1952	-0.9736	0.3329
	Age	-0.0026	-0.0167	0.0116	0.0071	-0.3606	0.7193
	Group_Batch1	-0.3316	-0.6965	0.0333	0.1836	-1.8061	0.0744
figure S3B (unclassified.Phy vs Neutrophils)	Intercept	1.2573	-4.2322	6.7468	2.7610	0.4554	0.6500
	Neutrophils	0.0006	0.0003	0.0009	0.0001	4.1931	0.0001
	Case.controlControl	-1.8616	-3.9647	0.2415	1.0578	-1.7599	0.0820
	SexM	1.2640	-0.9529	3.4809	1.1150	1.1336	0.2601
	Age	-0.0016	-0.0849	0.0818	0.0419	-0.0377	0.9700
	Group_Batch1	-3.1424	-5.2563	-1.0284	1.0632	-2.9556	0.0040
figure S4 (See results for figure 4)							
Figure S5 (Time to death vs Case.control)	Intercept	489.1053	40.2535	937.9571	225.9981	2.1642	0.0330
	Case.controlControl	253.2282	82.8585	423.5970	85.7812	2.9520	0.0040
	SexM	71.1949	-107.385	249.7750	89.9156	0.7918	0.4305
	Age	-3.0868	-9.6476	3.4740	3.3034	-0.9344	0.3525
	Group_Batch1	-116.4242	-285.603	52.7542	85.1818	-1.3668	0.1750

Survival analyses	Hazard ratio	Estimate CI (2.5)	Estimate CI (97.5)	Pr(> z)
Cases_only.Shannon_range.Low_High	4.195	0.2921	2.5757	0.0138
Controls_only.Shannon_range.Low_High	1.2647	-0.8881	1.3578	0.6819

Supplementary File 3

bray

	UZ.P066	UZ.P067	UZ.P068	UZ.P069	UZ.P070	UZ.P071	UZ.P072	UZ.P073
UZ.P066	NA	0.695134751	0.959231664	0.813583466	0.750458136	0.510407534	0.868336868	0.62512177
UZ.P067	0.695134751	NA	0.986768614	0.932737277	0.573601544	0.807498437	0.945429904	0.749553843
UZ.P068	0.959231664	0.986768614	NA	0.966559196	0.992317686	0.960992452	0.981620633	0.921346051
UZ.P069	0.813583466	0.932737277	0.966559196	NA	0.96092452	0.96092452	0.91945174	0.836047624
UZ.P070	0.750458136	0.573601544	0.992317686	0.960992452	NA	0.96092452	0.91945174	0.836047624
UZ.P071	0.510407534	0.807498437	0.96092452	0.966559196	0.948167785	NA	0.835533109	0.787374191
UZ.P072	0.868336868	0.945429904	0.981620633	0.91945174	0.960444635	0.833069086	NA	0.842624534
UZ.P073	0.62512177	0.749553843	0.921346051	0.836047624	0.787374191	0.835533109	0.842624534	NA
UZ.P074	0.67449833	0.420844633	0.990349664	0.943430087	0.510827871	0.820396667	0.956623431	0.740470507
UZ.P056	0.886731722	0.930350627	0.961579105	0.912675675	0.958331983	0.722485186	0.909055898	0.732009491
UZ.P075	0.774736307	0.840865914	0.810874581	0.854314912	0.873100795	0.605913195	0.84345177	0.520085285
UZ.P076	0.621991295	0.904383256	0.610425311	0.812524467	0.92009105	0.584851858	0.876158774	0.708656245
UZ.P077	0.365612926	0.903674735	0.967918667	0.810833047	0.925598122	0.473185475	0.848298545	0.68457912
UZ.P079	0.862314461	0.949495139	0.994339524	0.971024502	0.947960012	0.871260178	0.959977929	0.904213028
UZ.P080	0.941800432	0.956625785	0.974306137	0.950919995	0.97955131	0.894703566	0.958735246	0.873465534
UZ.P081	0.439282758	0.89528576	0.967689969	0.819216782	0.910147337	0.451823947	0.869800049	0.636335325
UZ.P083	0.913880024	0.981367945	0.942918406	0.951280064	0.991658498	0.914142163	0.963468152	0.878004433
UZ.P084	0.911172363	0.96821244	0.59804297	0.925424164	0.980586096	0.845975282	0.945214841	0.782104292
UZ.P085	0.900885258	0.88370606	0.950852351	0.915477085	0.910183261	0.777746754	0.934015911	0.778054323
UZ.P057	0.698767078	0.619286725	0.812420584	0.925557433	0.724619666	0.822732849	0.955017059	0.687649665
UZ.P086	0.898004587	0.990795924	0.893732092	0.959754479	0.990627547	0.80768023	0.964876084	0.715968255
UZ.P087	0.938800506	0.864595034	0.99551072	0.95699413	0.900128202	0.919977713	0.91669732	0.918043391
UZ.P089	0.994670323	0.991185104	0.988520022	0.994151587	0.992432999	0.979828929	0.993634539	0.94043096
UZ.P091	0.994018607	0.991313409	0.992456444	0.994973231	0.992822377	0.986525505	0.993547888	0.984789128
UZ.P092	0.985219308	0.974316302	0.986534495	0.985804494	0.981863698	0.960523643	0.990135518	0.945453194
UZ.P093	0.474338343	0.702070233	0.953922237	0.793237748	0.730174043	0.502826623	0.825498821	0.481531711
UZ.P094	0.783525962	0.62778316	0.989255603	0.938344436	0.488733861	0.867766459	0.944934972	0.78774096
UZ.P095	0.859357828	0.855120787	0.968528305	0.917392259	0.902805219	0.819309789	0.906858298	0.842907559
UZ.P096	0.598386716	0.804687572	0.597582054	0.865785462	0.789152959	0.651976688	0.854834272	0.640991533
UZ.P097	0.633165731	0.825172174	0.958669605	0.820623325	0.816260725	0.562240867	0.838420545	0.603621008
UZ.P058	0.487738702	0.590275075	0.960804488	0.833996461	0.630179135	0.583863125	0.886047389	0.860129802
UZ.P098	0.86679452	0.998246772	0.948214884	0.977490935	0.997872094	0.865858172	0.967645402	0.882268643
UZ.P099	0.710387841	0.627867475	0.952430147	0.873935943	0.621848059	0.65448112	0.891148618	0.664035289
UZ.P100	0.694755202	0.855109765	0.977458106	0.892522895	0.885285898	0.663800801	0.879102933	0.734104381
UZ.P101	0.867569468	0.709423481	0.987634498	0.94081567	0.574879513	0.842770027	0.944672185	0.866012488
UZ.P102	0.939356313	0.86946312	0.989667021	0.958422122	0.858954462	0.918068833	0.958399676	0.927833861
UZ.P103	0.743867985	0.529952314	0.996346965	0.948659107	0.434611026	0.848225426	0.960852451	0.769197646
UZ.P104	0.601594487	0.734554132	0.972059813	0.862329345	0.721725537	0.626613119	0.849705988	0.610436165
UZ.P105	0.718007432	0.565202073	0.988158824	0.941108198	0.487403037	0.84628283	0.948135947	0.783969033
UZ.P106	0.574767226	0.705411171	0.979066654	0.872362822	0.701371746	0.574397801	0.869380966	0.578332998
UZ.P107	0.772180253	0.628487178	0.993852742	0.94995493	0.460928593	0.862125553	0.963593261	0.80325065
UZ.P108	0.699615997	0.579190316	0.996868911	0.951027107	0.40145991	0.845410226	0.965825838	0.774529691
UZ.P110	0.849430069	0.676952274	0.996200241	0.956358211	0.677671261	0.865836124	0.965067509	0.820896065
UZ.P111	0.682029693	0.428032407	0.99208117	0.941752482	0.485464666	0.847966069	0.953909167	0.732908162
UZ.P112	0.941356006	0.95160675	0.944493843	0.951131106	0.975138281	0.872633535	0.96371271	0.866079093
UZ.P113	0.688159237	0.609673469	0.994198885	0.952005431	0.636762557	0.866234738	0.963772797	0.758467404
UZ.P114	0.713458022	0.638537559	0.987970113	0.950898482	0.609646887	0.870519509	0.962332944	0.741869334
UZ.P065	0.960651331	0.961647984	0.956606526	0.966328261	0.978914367	0.882643462	0.967451568	0.862078625
UZ.P061	0.484519898	0.845722034	0.972215041	0.808734789	0.874317057	0.58230231	0.885571915	0.648951428
UZ.P063	0.976186007	0.973261441	0.966724365	0.977810536	0.988741443	0.914350431	0.978815887	0.649973429
UZ.P064	0.384017551	0.600161214	0.953417525	0.80532328	0.692858664	0.447337874	0.84851261	0.543377539
UZ.P124	0.797543851	0.930482172	0.912044008	0.965770822	0.976830592	0.739337859	0.960852091	0.779829192
UZ.P127	0.962803981	0.986422687	0.977259622	0.973880716	0.992982	0.947876489	0.985552764	0.933576961
UZ.P128	0.800509267	0.984139065	0.984300856	0.974954639	0.992960818	0.7097624	0.961555893	0.836938556
UZ.P129	0.993804848	0.99573321	0.992168164	0.994656774	0.997264398	0.985747659	0.995647329	0.986341297
UZ.P130	0.991639821	0.988795232	0.992850631	0.992445518	0.992632165	0.981440006	0.993311719	0.980508944
UZ.P131	0.962371548	0.993340359	0.85927683	0.969259662	0.99663806	0.965090815	0.991366877	0.897073703
UZ.P132	0.998281376	0.998210867	0.997197242	0.998461034	0.998166494	0.994762627	0.998382385	0.995034437
UZ.P133	0.839354473	0.905265471	0.918516742	0.881690183	0.979532723	0.715753092	0.915591313	0.644140421
UZ.P115	0.949250827	0.989320885	0.923174738	0.956206519	0.981588101	0.936484734	0.885073147	0.898972107
UZ.P134	0.916503125	0.896481874	0.973907342	0.940519797	0.935708335	0.869714572	0.955067602	0.874209335
UZ.P135	0.991609505	0.998166713	0.992961671	0.995709419	0.997068079	0.986629649	0.995563064	0.988821538
UZ.P136	0.797855488	0.67010731	0.979809818	0.945128583	0.703857029	0.79539405	0.964212645	0.650824562
UZ.P137	0.996264917	0.995031159	0.993381879	0.995752207	0.9968088	0.988526648	0.996571717	0.99839038
UZ.P138	0.929019877	0.922308979	0.971105031	0.971102028	0.868868555	0.912537453	0.973030122	0.913722283
UZ.P139	0.85772685	0.599059683	0.995145918	0.935948951	0.748715886	0.80347842	0.954017686	0.795662132
UZ.P140	0.864670615	0.641131203	0.993931259	0.936733847	0.709855556	0.796196943	0.955918983	0.798401201
UZ.P141	0.86714723	0.643864631	0.993062327	0.935105828	0.853390576	0.820668139	0.9534563	0.819161606
UZ.P142	0.871051956	0.870692753	0.974394147	0.926989325	0.884906644	0.811711412	0.951617712	0.81976687
UZ.P143	0.835126147	0.997611073	0.986559952	0.99018437	0.99684612	0.793524988	0.978160962	0.877024764
UZ.P116	0.911919203	0.981587539	0.377664743	0.959444575	0.994853787	0.921532341	0.960775198	0.857228006
UZ.P144	0.869852396	0.845216065	0.981053188	0.961385186	0.887428792	0.857918119	0.919962105	0.821253123
UZ.P145	0.914391775	0.988589757	0.933721923	0.956980044	0.998581858	0.896165232	0.970678733	0.850570456
UZ.P146	0.887845234	0.67398983	0.995992096	0.938450296	0.772832747	0.831127188	0.953885316	0.846510139
UZ.P147	0.958565485	0.962871578	0.996264274	0.975651145	0.968113144	0.941997509	0.979461451	0.936368904
UZ.P148	0.95300409	0.962201018	0.979752635	0.973998584	0.973148024	0.923412909	0.976823212	0.94931007
UZ.P149	0.95787772	0.97238252	0.990795228	0.977399177	0.977331734	0.948038168	0.976361601	0.949874895
UZ.P150	0.995084563	0.992706728	0.995560213	0.995158278	0.995108289	0.985707533	0.99618471	0.988738794
UZ.P151	0.982678303	0.994893774	0.983457557	0.989674596	0.994552627	0.958513661	0.987247202	0.953149663
UZ.P152	0.84340572	0.8296145						

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UZ.P074	UZ.P056	UZ.P075	UZ.P076	UZ.P077	UZ.P079	UZ.P080	UZ.P081
0.67449833	0.886731722	0.774736307	0.621991295	0.365612926	0.862314461	0.941800432	0.439282758
0.420846633	0.930350627	0.840865914	0.904383256	0.903674735	0.949495139	0.956625785	0.89528576
0.990349664	0.961579105	0.810874581	0.610425311	0.967918667	0.994339524	0.974306137	0.967689699
0.94343087	0.912675675	0.854314912	0.812524467	0.810833047	0.971024502	0.950919995	0.819216782
0.510827871	0.958331983	0.873100795	0.92009105	0.925598122	0.947960012	0.97955131	0.910147337
0.820396667	0.722485186	0.605913195	0.584851858	0.473185475	0.871260178	0.894703566	0.451823947
0.956623431	0.909055898	0.84345147	0.876158774	0.848298545	0.959977929	0.958735246	0.869800049
0.740470507	0.732009491	0.520085285	0.708656245	0.68457912	0.904213028	0.873465534	0.636335325
NA	0.958029955	0.843060431	0.91349185	0.916237418	0.945183527	0.967323361	0.898058164
0.958029955	NA	0.655841645	0.818894148	0.843489626	0.96606092	0.827146201	0.823208976
0.843060431	0.655841645	NA	0.684709218	0.75232822	0.926564065	0.843423012	0.775973261
0.91349185	0.818894148	0.684709218	NA	0.592140921	0.94482522	0.945970716	0.56754438
0.916237418	0.843489626	0.75232822	0.592140921	NA	0.749486759	0.92776594	0.343780221
0.945183527	0.96606092	0.926564065	0.94482522	0.749486759	NA	0.989811332	0.914998844
0.967323361	0.827146201	0.843423012	0.945970716	0.92776594	0.989811332	NA	0.867151039
0.898058164	0.823208976	0.775973261	0.56754438	0.343780221	0.914998844	0.867151039	NA
0.990129023	0.883372068	0.864801624	0.935678313	0.922908556	0.982068284	0.947270702	0.927929416
0.981172251	0.799834371	0.528914639	0.644429876	0.905459002	0.985698888	0.890874159	0.889994263
0.871255335	0.715187377	0.765124449	0.881922512	0.873238573	0.963238663	0.933984126	0.864794793
0.482809347	0.921561991	0.722327427	0.790175798	0.900436591	0.967126254	0.962458526	0.868703159
0.987519627	0.810918229	0.706987731	0.88475312	0.88982269	0.941919708	0.962597988	0.874632832
0.870228285	0.963241004	0.888719606	0.949059437	0.946310179	0.961003963	0.708331928	0.960200483
0.994312708	0.93449567	0.965885746	0.993874533	0.989310574	0.996710551	0.968502503	0.987368576
0.990397885	0.971035263	0.978355386	0.993993575	0.993853005	0.996688539	0.987381589	0.988702815
0.971129972	0.877596234	0.922420006	0.986589279	0.978634951	0.992724214	0.933242697	0.978171066
0.685576009	0.790229525	0.669996691	0.60276399	0.529022484	0.94234758	0.919720225	0.55402581
0.681861028	0.933418083	0.88544218	0.914119701	0.915037322	0.959238351	0.95781592	0.909032855
0.898242994	0.834309981	0.77421947	0.890238966	0.831959641	0.959247926	0.921426128	0.901803037
0.790245032	0.901177794	0.708518436	0.451614585	0.653154634	0.82864314	0.935317509	0.747441864
0.828050643	0.77619784	0.689764992	0.700221008	0.687483775	0.927953883	0.915302623	0.670807815
0.541709467	0.867405325	0.758734826	0.760240671	0.726942239	0.914066192	0.92271791	0.702519691
0.995581094	0.97050599	0.894686992	0.932257443	0.881381659	0.922081794	0.994649849	0.911091474
0.626380972	0.790807469	0.708129669	0.8086507	0.792656603	0.935494438	0.918214357	0.785115923
0.881912429	0.86761962	0.796581339	0.824032093	0.543834762	0.681131645	0.951312955	0.77747808
0.682834576	0.934098952	0.814698517	0.923322971	0.924033823	0.940074212	0.975873981	0.939732947
0.799104624	0.964333269	0.902913614	0.951327273	0.9437948	0.961192132	0.968650771	0.962538543
0.496633595	0.971255567	0.886389156	0.931534948	0.925528379	0.95132666	0.955355801	0.920474624
0.763972177	0.858149255	0.76971586	0.778329976	0.705489576	0.935060674	0.952499126	0.716707038
0.473195151	0.934531798	0.888272913	0.902482028	0.904716576	0.958269909	0.965237533	0.894782331
0.745623922	0.867638891	0.771935126	0.767643175	0.705339654	0.90166294	0.931984691	0.669525168
0.533043677	0.969994679	0.888123081	0.928239061	0.926988504	0.951419505	0.969706088	0.916887236
0.504997713	0.973972926	0.892667172	0.929612165	0.923567957	0.950342623	0.984252054	0.917517317
0.654029932	0.972506265	0.918571619	0.937839294	0.935612411	0.966673525	0.978068527	0.921101565
0.414642674	0.96144621	0.871789054	0.922474434	0.918952946	0.951661501	0.948270665	0.916464324
0.967069547	0.741630297	0.799488178	0.934884081	0.929574717	0.988926849	0.907779809	0.921222054
0.534675847	0.972832726	0.923380805	0.937807068	0.927888763	0.956844956	0.974368064	0.925886751
0.555571069	0.96829491	0.907568368	0.933497131	0.932960735	0.952800145	0.815026023	0.923956312
0.974277834	0.705812785	0.781495086	0.955818069	0.933333372	0.986913322	0.8799947357	0.943575247
0.852432614	0.836840217	0.752669083	0.642240144	0.490826272	0.944068308	0.910226321	0.481610532
0.990358757	0.738185224	0.856108998	0.969840183	0.952071525	0.990011325	0.880033571	0.9542423
0.569160674	0.798462808	0.703654727	0.634267286	0.600377725	0.902223573	0.941765044	0.553096099
0.976079691	0.888838642	0.791313081	0.884471502	0.725707231	0.82132825	0.848936465	0.848936465
0.989102483	0.799761146	0.925126246	0.970122292	0.961974738	0.996505891	0.981713065	0.950659217
0.991710436	0.800605347	0.884022954	0.931845818	0.675825645	0.794261574	0.980899106	0.838506443
0.994895555	0.971534301	0.981445937	0.992627643	0.992648888	0.998022781	0.995498301	0.990201653
0.989425178	0.966031449	0.976397057	0.98998576	0.989595247	0.996460526	0.983785036	0.988200814
0.993577239	0.966584967	0.73417487	0.868568575	0.976775032	0.998034941	0.995687206	0.974668886
0.997795795	0.984276631	0.990946825	0.996840228	0.996414679	0.999228256	0.996325173	0.996014778
0.955958664	0.754067971	0.582931855	0.831701692	0.84126885	0.981706345	0.904773535	0.840282094
0.989211003	0.889497087	0.841620339	0.944199079	0.964980788	0.993708268	0.970988104	0.957301009
0.888314011	0.844533818	0.811160286	0.932746657	0.912527933	0.966845696	0.957107469	0.899797062
0.998757877	0.97699466	0.981699175	0.994525183	0.993526366	0.996010886	0.986557285	0.980751316
0.591963609	0.906261654	0.884359304	0.906556695	0.907808842	0.972087961	0.978800334	0.855409071
0.994392847	0.970611645	0.983198947	0.994144982	0.993758567	0.997362394	0.988879804	0.993338183
0.892978384	0.773405553	0.857427281	0.890946349	0.940326436	0.979742534	0.987440466	0.93499545
0.684495688	0.951990205	0.80743723	0.905262849	0.895797305	0.946462587	0.912295419	0.90355094
0.649375226	0.940817204	0.799890732	0.902504015	0.907415146	0.943004526	0.971454319	0.892055925
0.78288669	0.918571496	0.829006752	0.907326788	0.884956109	0.953310587	0.972553615	0.909575404
0.856925865	0.887131035	0.837920071	0.899689846	0.891620156	0.963176383	0.980634632	0.889704334
0.99655104	0.926790528	0.931935837	0.95506228	0.613887224	0.641344839	0.989120694	0.866429411
0.990885171	0.95790047	0.701022566	0.510748751	0.935691318	0.990183961	0.99421766	0.955272762
0.873435401	0.894706648	0.776509918	0.926253375	0.913883816	0.948581729	0.978627672	0.931940161
0.994720285	0.882414912	0.826272128	0.92743642	0.945076409	0.991594408	0.992053587	0.947399446
0.681747097	0.932251024	0.811549567	0.916199722	0.909434366	0.941602213	0.949359391	0.924710776
0.956591871	0.879201392	0.926386628	0.962630743	0.969698898	0.983854383	0.980999596	0.948032163
0.960793676	0.90115778	0.922719204	0.967676503	0.95221367	0.985976787	0.974224915	0.969951749
0.965403971	0.929202764	0.940588019	0.973726316	0.962599774	0.986356896	0.981162246	0.949071493
0.991378922	0.962863811	0.977399914	0.993888911	0.992245615	0.996236801	0.992884415	0.996267091
0.996458784	0.825845365	0.940644587	0.977275679	0.97916117	0.988514838	0.975706083	0.974189335
0.823373074	0.88217202	0.759730659	0.911729081	0.897761591	0.947918997	0.96563493	0.905506808
0.979709321	0.853201635	0.940578865	0.957102988	0.947311564	0.990356055	0.97484385	0.958701263
0.989881499	0.895882916	0.648988255	0.732339488	0.797138933	0.872948385	0.98009725	0.837598614
0.826688173	0.905709453	0.634928611	0.888845616	0.921186283	0.961555969	0.967266933	0.953654776
0.899158223	0.882863264	0.793795926	0.918612758	0.814512214	0.868179747	0.980638213	0.831048688
0.561261054	0.887720969	0.804015512	0.889405423	0.879160046	0.965705974	0.979660233	0.850729419
0.987303329	0.846588808	0.835530394	0.956974519	0.942971583	0.988348008	0.979265427	0.950449782
0.991352478	0.939482151	0.847237723	0.957192991	0.956665682	0.990033212	0.990716909	0.960429263
0.935936516	0.814481545	0.883746285	0.941769643	0.943074089	0.963990819	0.991136942	0.972349182
0.915771658	0.912920165	0.891500955	0.945561298	0.937747431	0.963432891	0.981758805	0.943303748
0.869756512	0.825635977	0.757715846	0.900614298	0.729097879	0.819577775	0.969237978	0.799608375
0.706177063	0.923251507	0.572103418	0.799585843	0.876678633	0.96033505	0.96221449	0.874193673
0.990660253	0.900684724	0.860018114	0.952766857	0.970554504	0.996485166	0.99193364	

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UZ.P083	UZ.P084	UZ.P085	UZ.P057	UZ.P086	UZ.P087	UZ.P089	UZ.P091
0.913880024	0.911172363	0.900885258	0.698767078	0.898004587	0.938805056	0.994670323	0.994018607
0.981367945	0.96821244	0.88370606	0.619286725	0.990795924	0.864595034	0.991185104	0.991313409
0.942918406	0.59804297	0.950852351	0.812420584	0.893732092	0.99551072	0.988520022	0.992456444
0.951280064	0.925424164	0.915477085	0.925557433	0.959754479	0.95699413	0.994151587	0.994973231
0.991658498	0.980586096	0.910183261	0.724619666	0.990627547	0.900128202	0.992432999	0.992822377
0.914142163	0.845975282	0.777746754	0.822732849	0.80768023	0.919977713	0.979828929	0.886525505
0.963468152	0.945214841	0.934015911	0.955017059	0.964876084	0.961669732	0.993634539	0.993547888
0.878040433	0.782104292	0.778054323	0.687649665	0.715968255	0.918043391	0.977340946	0.984789128
0.990129023	0.981172251	0.871255335	0.482809347	0.987519627	0.870228285	0.994312708	0.990397885
0.883372068	0.799834371	0.798834371	0.921561991	0.810918229	0.963241004	0.93449567	0.971035263
0.864801624	0.528914639	0.765124449	0.722327427	0.706887731	0.888719606	0.965885746	0.978355396
0.935678313	0.644429876	0.881922512	0.790175798	0.88475312	0.949059437	0.993874533	0.993993575
0.922908556	0.905459002	0.873238573	0.900436591	0.88982269	0.946310179	0.989310574	0.993853005
0.982068284	0.985669888	0.96323863	0.967126254	0.941919708	0.961003963	0.996710551	0.996688539
0.947270702	0.890874159	0.933984126	0.962458526	0.962597988	0.708331928	0.968502503	0.987381589
0.927929416	0.889994263	0.864794793	0.868703159	0.874632832	0.960200483	0.987368576	0.988702815
NA	0.897028834	0.928279001	0.928279001	0.87454065	0.995631369	0.97905548	0.987321073
0.897028834	NA	0.84192465	0.84192465	0.741390001	0.98705748	0.956375261	0.979233658
0.928279001	0.84192465	NA	NA	0.827718592	0.826573818	0.89375112	0.921207979
0.931128926	0.694729269	0.827718592	NA	0.869251326	0.869251326	0.980211112	0.989134396
0.87454065	0.741390001	0.826573818	0.869251326	NA	0.91945811	0.994055181	0.947976879
0.995631369	0.98705748	0.902644264	0.949005181	0.991945811	NA	0.94905181	0.993263245
0.97905548	0.956375261	0.89375112	0.980211112	0.932632453	0.996723102	NA	0.996723102
0.987321073	0.979233658	0.921207979	0.989134396	0.947976879	0.99361921	0.737588652	NA
0.972823143	0.925078864	0.925078864	0.815011372	0.971765384	0.913753327	0.96094574	0.822664556
0.894482146	0.892913766	0.83178867	0.702901205	0.900442446	0.926489802	0.985887351	0.991194553
0.987381312	0.968968077	0.943277676	0.830482415	0.991496928	0.911286678	0.995426984	0.995646747
0.933087398	0.901874507	0.878704829	0.937263633	0.949312321	0.951327706	0.983260068	0.989429922
0.945395741	0.71901121	0.914367829	0.733094803	0.885121762	0.93081036	0.995069836	0.995417563
0.874472418	0.882684734	0.850457048	0.874603783	0.87997265	0.920561286	0.987192125	0.992727582
0.909835476	0.909071112	0.884021341	0.45719849	0.886287811	0.905831725	0.993257088	0.992640824
0.748930916	0.933439942	0.979994831	0.941930304	0.870349562	0.999421426	0.998591934	0.997490508
0.87897527	0.877882211	0.795123323	0.830932096	0.910609095	0.876208801	0.983143384	0.989106937
0.947706611	0.936425595	0.882847008	0.89964543	0.900159219	0.938598901	0.993510307	0.993125942
0.987724124	0.969189528	0.849116126	0.93063576	0.979012799	0.862089908	0.989281599	0.984446943
0.788202469	0.983322812	0.92070492	0.94771194	0.98353428	0.917874542	0.997324072	0.993760549
0.995527818	0.987567317	0.917994423	0.740389622	0.992508375	0.870960749	0.996274385	0.995566983
0.914626471	0.930404157	0.879705182	0.780533434	0.898780441	0.942608861	0.995546756	0.994491652
0.976398559	0.974524661	0.912198199	0.466996103	0.983623538	0.912881611	0.995669294	0.993176361
0.884152039	0.928374347	0.893961932	0.83211865	0.909459109	0.917349634	0.993744835	0.992769278
0.993145978	0.984239372	0.919181084	0.758308399	0.988342893	0.905566232	0.996872433	0.995145491
0.986840045	0.986074298	0.913633846	0.657096455	0.993144437	0.912398982	0.996836736	0.996369577
0.996172866	0.990483283	0.921281175	0.830708747	0.993248902	0.90870799	0.998220505	0.995025532
0.99045318	0.981812674	0.919390964	0.542884555	0.99170543	0.870588613	0.995781673	0.994220172
0.912861915	0.786364824	0.603953294	0.91927686	0.790073092	0.971424736	0.872061236	0.900072411
0.994491463	0.989095044	0.930073092	0.49159742	0.991724722	0.928166715	0.996024262	0.995247985
0.986868145	0.978816139	0.931338969	0.524239889	0.989644594	0.707355927	0.994369855	0.994882734
0.906847403	0.834533572	0.702649573	0.94013059	0.832867805	0.98040802	0.813382179	0.912560128
0.93147282	0.902144539	0.869491782	0.866057106	0.927492299	0.922251594	0.987793415	0.993026333
0.915967918	0.859438388	0.827796889	0.951329181	0.851529359	0.995865005	0.683463979	0.857142857
0.910506613	0.885149797	0.876620562	0.621126572	0.867807378	0.913983018	0.993339201	0.992545565
0.922852916	0.848643299	0.937539417	0.891021608	0.68671422	0.995756132	0.997453646	0.991141257
0.931259068	0.926020408	0.820577063	0.961411257	0.894932068	0.9938233	0.987955208	0.956452668
0.946636897	0.955844438	0.912126896	0.976232868	0.682523638	0.995180948	0.990495004	0.984858441
0.989633312	0.978928698	0.95670259	0.988283176	0.973221092	0.99549253	0.98887312	0.985527729
0.993090505	0.970935914	0.970935914	0.988050505	0.98125621	0.991694423	0.994894858	0.985699859
0.935265872	0.601386427	0.894338056	0.835040138	0.70581713	0.997163024	0.994021049	0.988731474
0.995857646	0.988082598	0.988082598	0.974145548	0.995172295	0.9987565183	0.999642495	0.986731654
0.908215165	0.778408671	0.894097667	0.886581219	0.727536092	0.984892614	0.974293237	0.977883751
0.902305424	0.811323677	0.809911845	0.877655641	0.659236545	0.993878954	0.968631105	0.94472323
0.947640068	0.915006676	0.800488879	0.927315029	0.894659992	0.931713988	0.992877734	0.979693141
0.989930423	0.983311978	0.967548282	0.992508486	0.969939933	0.999527606	0.986763365	0.992255107
0.973817286	0.946106149	0.711397513	0.5735914	0.939588607	0.930622627	0.996284794	0.988183161
0.989971616	0.979697164	0.942995864	0.989271003	0.962481265	0.997219949	0.935753846	0.956580071
0.958638776	0.918633895	0.875281246	0.952102255	0.886779522	0.941940302	0.976613807	0.986448912
0.996688369	0.985763533	0.846112912	0.87570519	0.9899412	0.798451911	0.99754977	0.993123443
0.996667911	0.981045827	0.822079405	0.858208327	0.987808393	0.842033754	0.997607066	0.9889295
0.988637724	0.974084312	0.814752542	0.889713111	0.985759603	0.860078591	0.996478342	0.991190018
0.9411729	0.943983482	0.789688561	0.891134216	0.946993176	0.908707645	0.996962656	0.993264665
0.958575978	0.970594279	0.983544757	0.989348219	0.789541767	0.999868313	0.997472807	0.995838805
0.942148602	0.458022405	0.923786123	0.774769215	0.868269793	0.992305722	0.998311105	0.993813522
0.943576243	0.953369061	0.933532785	0.965970499	0.868877052	0.972310916	0.997761002	0.991718927
0.924439723	0.868190216	0.867310909	0.905939935	0.807331228	0.999341806	0.99743515	0.990518846
0.996265158	0.979659262	0.780847145	0.899250267	0.987616325	0.846297866	0.996552783	0.991891956
0.990906954	0.980134942	0.884375227	0.956923951	0.990921148	0.963510444	0.998730872	0.989572929
0.804197564	0.943522381	0.866980166	0.968795514	0.954245682	0.97419545	0.980164372	0.975026806
0.987999303	0.967413787	0.913488548	0.971726764	0.97747317	0.972292669	0.996857065	0.989677595
0.994897314	0.985055351	0.941220477	0.984583227	0.951145572	0.994096438	0.977366703	0.934461341
0.964776086	0.94321986	0.93444653	0.985601152	0.84723415	0.999363494	0.968218875	0.956777459
0.924785128	0.930767126	0.782549399	0.921492969	0.936419663	0.884274979	0.995995014	0.982657662
0.962592007	0.955301765	0.836939613	0.971804824	0.965006729	0.984360996	0.995760766	0.986399352
0.910235367	0.447821009	0.914497192	0.7417017	0.5880053	0.993515693	0.995429183	0.990419999
0.942386758	0.789142956	0.831766052	0.838711897	0.739929296	0.898715152	0.996714633	0.986759308
0.929898652	0.922884524	0.912080825	0.966995695	0.61427078	0.950999499	0.992284189	0.987990762
0.950000705	0.940669252	0.745674952	0.511156996	0.933020466	0.942517149	0.997948338	0.989082603
0.962044433	0.929108678	0.822998397	0.94307				

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UZ.P092	UZ.P093	UZ.P094	UZ.P095	UZ.P096	UZ.P097	UZ.P098	UZ.P098	
0.985219308	0.474338343	0.783525962	0.859357828	0.598386716	0.633165731	0.487738702	0.886794522	
0.974316302	0.702070233	0.62778316	0.855120787	0.804687572	0.825172174	0.590275075	0.998246770	
0.986534495	0.953922237	0.989256603	0.968528305	0.597582054	0.958696605	0.960804488	0.948214884	
0.985804494	0.793237748	0.938344436	0.917392259	0.865785462	0.820623325	0.833996461	0.977490935	
0.981863698	0.730174043	0.488733861	0.902805219	0.789152959	0.816260725	0.630179135	0.997872094	
0.960523643	0.502826623	0.867766459	0.819309789	0.651976688	0.562240867	0.583863125	0.865858172	
0.990135518	0.825498821	0.944934972	0.906858298	0.854834272	0.838420545	0.886047389	0.967645402	
0.945453194	0.481531711	0.788774096	0.842907859	0.640991533	0.603621008	0.536825902	0.882266843	
0.971129972	0.685576009	0.681861028	0.898242994	0.790245032	0.828050643	0.541709467	0.995581094	
0.877596234	0.790229525	0.933418083	0.834309981	0.901177794	0.77619784	0.867405325	0.97050599	
0.922420006	0.669986891	0.88544218	0.77421847	0.708518436	0.689764992	0.758734826	0.894868992	
0.986599279	0.602763399	0.914119701	0.890238966	0.451614585	0.700221008	0.760240671	0.932254743	
0.978634951	0.529022484	0.915037322	0.831959641	0.653154634	0.687483775	0.726942239	0.881381659	
0.992724214	0.94234758	0.959238351	0.959247926	0.82864314	0.927953883	0.914066192	0.922081794	
0.933242697	0.919720225	0.95781592	0.921426128	0.935317509	0.91530263	0.922711791	0.994649849	
0.978171066	0.55402581	0.909032855	0.901803037	0.747441864	0.670807815	0.702581961	0.911091474	
0.972823143	0.894482146	0.987381312	0.933087398	0.945395741	0.874472418	0.909835476	0.748930916	
0.925078864	0.892913766	0.968968077	0.901874507	0.71901121	0.882684734	0.909071112	0.933439942	
0.815011372	0.83178867	0.943277676	0.878704829	0.914367829	0.850457048	0.884021341	0.979994831	
0.971765384	0.702901205	0.830482415	0.937263633	0.733094803	0.874603783	0.45719849	0.941930304	
0.913753327	0.900442446	0.991496928	0.949314231	0.885121762	0.87997265	0.886287811	0.870349562	
0.96094574	0.926489802	0.911286678	0.951327706	0.93081036	0.920561286	0.905831725	0.999421426	
0.674718196	0.985887351	0.995426984	0.983260068	0.995069836	0.987192125	0.993257088	0.998591934	
0.822664556	0.991194553	0.982708043	0.989429922	0.995417563	0.992727582	0.992640842	0.997490508	
NA	0.973882239	0.973882239	0.965407871	0.986292564	0.968547409	0.97252344	0.998308891	
0.973882239 NA	NA	0.762310422	0.784785939	0.661787697	0.613923456	0.533415217	0.930958016	
0.982708043	0.762310422 NA	0.60975925	0.860975925	0.81989098	0.844529367	0.689887417	0.99704764	
0.965407871	0.784785939	0.860975925 NA	0.907373533 NA	0.907373533	0.857969704	0.870328341	0.98183179	
0.986292564	0.661787697	0.81989098	0.907373533 NA	0.907373533	0.640417917 NA	0.620745406	0.867335162	
0.968547409	0.613923456	0.844529367	0.957869704	0.640417917 NA	0.640417917 NA	0.565642845	0.933144504	
0.97252344	0.533415217	0.689887417	0.870328341	0.620745406	0.620745406	0.565642845 NA	0.927860027 NA	
0.998308891	0.930958016	0.99704764	0.98183179	0.867335162	0.933144504	0.927860027 NA	0.96802787	
0.952833471	0.658038905	0.640351193	0.787838197	0.733786468	0.650591728	0.628908613	0.96802787	
0.986410709	0.750024965	0.850089735	0.726361912	0.692885425	0.781091846	0.763640481	0.895831349	
0.960511124	0.849593211	0.692156195	0.858940739	0.86202901	0.854003602	0.780997265	0.95616664	
0.987294934	0.898137066	0.907001696	0.957672009	0.919311627	0.858620563	0.877935172	0.858416401	
0.972	0.726153812	0.498884147	0.909987224	0.815951947	0.7752643	0.622644649	0.999695013	
0.988370207	0.515233572	0.764808678	0.796199463	0.650143026	0.525268331	0.565023662	0.935859909	
0.980036632	0.739630295	0.625971633	0.906479215	0.787110661	0.702449909	0.397488283	0.989349525	
0.982988661	0.643209571	0.741945513	0.894668936	0.642173805	0.540060118	0.536799777	0.902120246	
0.987522399	0.747107801	0.629573295	0.924540787	0.818332706	0.788464514	0.684163205	0.996838448	
0.987294653	0.71930588	0.579512998	0.929796601	0.789313661	0.78334298	0.586504854	0.999706513	
0.985373322	0.805961774	0.725984125	0.929168051	0.834657776	0.742727093	0.733805403	0.998610048	
0.973843833	0.709927953	0.511725946	0.875358401	0.787806628	0.837895172	0.458122907	0.998499923	
0.7365323	0.894048196	0.968872475	0.883570901	0.952319842	0.90358745	0.923042147	0.981061236	
0.989885519	0.743184377	0.71614076	0.943256249	0.808049111	0.748575722	0.401849288	0.998174213	
0.983578828	0.738925774	0.684370217	0.931080232	0.81975623	0.858316209	0.455530847	0.996354744	
0.748976808	0.893324413	0.871373281	0.871373281	0.966911881	0.935601262	0.953418045	0.988153884	
0.967872428	0.549980817	0.868778548	0.883988243	0.777606956	0.713295172	0.6954259	0.968645832	
0.719410634	0.937845579	0.984076629	0.926924172	0.977527573	0.957027654	0.970759551	0.990036853	
0.982895161	0.455816585	0.711440973	0.866952566	0.626854439	0.569803583	0.435162572	0.884977023	
0.996298389	0.903902229	0.980534149	0.948783748	0.732430706	0.800009641	0.868825033	0.812162795	
0.929478354	0.963503059	0.992853181	0.952024151	0.983641405	0.945089292	0.951870537	0.990258235	
0.98234161	0.923109105	0.990550092	0.947547447	0.746773899	0.903215427	0.900034344	0.847035268	
0.983949756	0.990184479	0.996860306	0.988897107	0.993795234	0.990620334	0.992592391	0.996300485	
0.970141551	0.986951388	0.994008607	0.982789732	0.992391162	0.987923413	0.988859809	0.999165093	
0.992406759	0.960545045	0.996628468	0.973495351	0.892850342	0.962415763	0.970178415	0.937049512	
0.964812367	0.995942868	0.998120502	0.995065085	0.998595352	0.996259207	0.997542771	0.999374722	
0.970617355	0.788256276	0.958879965	0.898119122	0.817619938	0.719808777	0.814128226	0.924679106	
0.92835704	0.944995881	0.991394309	0.952733167	0.957920495	0.94549498	0.951581972	0.95667554	
0.962779878	0.876053847	0.952292869	0.874913216	0.922715434	0.864988624	0.896772976	0.979622725	
0.98800578	0.992494969	0.996337874	0.990881872	0.996170699	0.993087502	0.992845675	0.995604247	
0.977506775	0.680597221	0.83129702	0.953995464	0.818550859	0.884028578	0.743744793	0.988534778	
0.936327658	0.992215681	0.997188689	0.990992907	0.997081964	0.993017822	0.996151748	0.998500963	
0.954132256	0.873225301	0.913809826	0.928551289	0.910341792	0.776212116	0.88158929	0.980500001	
0.950628063	0.834022241	0.691501187	0.829739526	0.863912056	0.855281405	0.771446844	0.999919966	
0.954251784	0.830314083	0.739380503	0.887456486	0.87770914	0.858587498	0.789331012	0.999244218	
0.96095235	0.879167546	0.790189703	0.89864886	0.87681066	0.797260715	0.813386759	0.998447882	
0.985533136	0.843185898	0.923924143	0.910116424	0.886070435	0.785425022	0.849189266	0.985492178	
0.996984101	0.957830703	0.996107992	0.985079615	0.769035937	0.938554156	0.91866818	0.862997253	
0.993043659	0.902694858	0.98891763	0.946912385	0.544669815	0.876647076	0.941808508	0.929067927	
0.977825757	0.866339816	0.891121949	0.896660707	0.853129823	0.693072395	0.820666061	0.940419753	
0.996572082	0.895091832	0.996418378	0.941349891	0.935262961	0.853785961	0.930450846	0.944268225	
0.967767857	0.876077888	0.796952878	0.836083307	0.909746341	0.879775157	0.839871744	0.999910588	
0.987655458	0.950852322	0.979997224	0.955626485	0.970283834	0.93818303	0.960135876	1	
0.951348932	0.914771805	0.970616793	0.904942995	0.966982798	0.941409041	0.951308151	0.904628224	
0.982612447	0.935433518	0.981012022	0.94831851	0.965050001	0.944649346	0.97128945	0.996270612	
0.933541607	0.990620111	0.996841467	0.987782844	0.995907262	0.991162266	0.993492599	0.997870109	
0.958281702	0.970677276	0.993899619	0.976932186	0.98205574	0.972243481	0.976884486	0.984552123	
0.948935508	0.868097543	0.866222698	0.837973562	0.875441388	0.804111776	0.802660537	0.984800386	
0.974832542	0.924938284	0.990689547	0.933431526	0.965244616	0.860322315	0.931647511	0.995983533	
0.984632272	0.920063986	0.991365054	0.961139042	0.664978595	0.900232315	0.886804413	0.805079622	
0.967036643	0.892495085	0.885079909	0.837761594	0.876306103	0.896959509	0.861869292	0.940850365	
0.976641414	0.901041105	0.904151862	0.915657828	0.835439463	0.886955711	0.821152227	0.854808147	
0.987498183	0.616783262	0.823151187	0.936529635	0.746909895	0.739690086	0.671013644	0.959342841	
0.965001884	0.887644893	0.992821561	0.936287587	0.946949761	0.890337409	0.949066268	0.964659466	
0.988723514	0.879396665	0.995401315	0.959399057	0.8705538129	0.8456558	0.950764887	0.956073037	
0.973694306	0.912409587	0.927937162	0.917849618	0.965944327	0.921320534	0.946825833	0.997392584	
0.989942605	0.927153599	0.898953778	0.900356577	0.922666596	0.873141664	0.890764647	0.994222785	
0.977577831	0.865638487	0.934941373	0.932483075	0.770622292	0.844820004	0.830002017	0.844826134	
0.969069884	0.801736832	0.823717779	0.860316383	0.803074501	0.820672264	0.806581699	0.945120031	
0.942998534	0.950031791	0.993638982	0.9615					

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UZ.P099	UZ.P100	UZ.P101	UZ.P102	UZ.P103	UZ.P104	UZ.P105	UZ.P106
0.710387841	0.694755202	0.867569468	0.939356313	0.743867985	0.601594487	0.718007432	0.574767226
0.627867475	0.855109765	0.709423481	0.86946312	0.529952314	0.734554132	0.565202073	0.705411171
0.952430147	0.977458106	0.987634498	0.989667021	0.996346965	0.972059813	0.988158824	0.979066654
0.873935943	0.892522695	0.94081567	0.959422122	0.948659107	0.862329345	0.941108198	0.872362622
0.621848059	0.885285898	0.574879513	0.858954462	0.434611026	0.721725537	0.487403037	0.701317146
0.65448112	0.663080081	0.842770027	0.918068833	0.848225426	0.626613119	0.846282823	0.574397801
0.891148618	0.879102933	0.944672185	0.958399676	0.960852451	0.849705988	0.948135947	0.869380966
0.664035289	0.734104381	0.866012488	0.927833861	0.769197646	0.610436165	0.783996033	0.578332998
0.626360972	0.881912429	0.682834576	0.799104624	0.496633595	0.763972177	0.473195151	0.743623922
0.790807469	0.86761962	0.934098952	0.964332669	0.971255567	0.858149255	0.934531798	0.867638891
0.708129669	0.796581339	0.814698517	0.902913614	0.886389156	0.76971586	0.888272913	0.771935126
0.8086507	0.824032093	0.923322971	0.951327273	0.931534948	0.778329976	0.902482028	0.767643175
0.792656603	0.543834762	0.924033823	0.9437948	0.925528379	0.705489576	0.904716576	0.705339654
0.935494438	0.681131645	0.940074212	0.961192132	0.95132666	0.935060674	0.958269909	0.90166294
0.918214357	0.951312955	0.975873981	0.968650771	0.953555801	0.952499126	0.965237533	0.931984691
0.785115923	0.77747808	0.939732947	0.962538543	0.920474824	0.716707038	0.894782331	0.669525168
0.87897527	0.947706611	0.987724124	0.788202469	0.995527818	0.914626471	0.978398559	0.884152039
0.877882211	0.936425595	0.969189528	0.983322812	0.987567317	0.930404157	0.974524661	0.928374347
0.795123323	0.882847008	0.849116126	0.92070492	0.917994423	0.879706182	0.912198199	0.893961932
0.830932096	0.899645443	0.930663576	0.94771194	0.740389622	0.780533434	0.466996103	0.832111665
0.910609095	0.900159219	0.979012599	0.98353428	0.992508375	0.898780441	0.983623538	0.909459109
0.876208801	0.938598901	0.862089908	0.918774542	0.870960749	0.942608861	0.912881611	0.917349634
0.983143384	0.993510307	0.989281599	0.997324072	0.996274385	0.995546756	0.995669294	0.993744835
0.989106937	0.993125942	0.984446943	0.993760549	0.995566983	0.994491652	0.993173631	0.992769278
0.952833471	0.986410709	0.960511124	0.987294934	0.972	0.988370207	0.980036632	0.982986661
0.658038905	0.750024965	0.849593211	0.896137066	0.726153812	0.515233572	0.739630295	0.643209571
0.640351193	0.850089735	0.692156195	0.907001696	0.49884147	0.764808678	0.625971633	0.741945513
0.787838197	0.726361912	0.858940739	0.957672009	0.909987224	0.796199463	0.906479215	0.894668936
0.733786468	0.692885425	0.86202901	0.919311627	0.815951947	0.650143026	0.787110661	0.642173805
0.650591728	0.781091846	0.854003602	0.858620563	0.7752643	0.525268331	0.702449909	0.540060118
0.628908613	0.763640481	0.780997285	0.877935172	0.622644649	0.565023662	0.397488283	0.536799777
0.96082787	0.895831349	0.99561664	0.858416401	0.999695013	0.935859909	0.989349525	0.902120246
NA	0.750581335 NA	0.750581335 NA	0.566490828	0.85134139	0.573967133	0.66531375	0.698190349
0.750581335 NA	0.878414445 NA	0.878414445 NA	0.878414445 NA	0.94578459	0.878142771	0.68597113	0.901179467
0.566490828	0.878414445 NA	0.878414445 NA	0.843466837 NA	0.843466837 NA	0.650236444	0.864375944	0.738356652
0.85134139	0.94578459 NA	0.94578459 NA	0.843466837 NA	0.843466837 NA	0.849606258 NA	0.897558249	0.861580753
0.573967133	0.878142771 NA	0.878142771 NA	0.650236444 NA	0.849606258 NA	0.700926743 NA	0.700926743 NA	0.583219636
0.665331375	0.68597113 NA	0.68597113 NA	0.864375944 NA	0.897558249 NA	0.583219636 NA	0.531237044 NA	0.682682978
0.698190349	0.901179467 NA	0.901179467 NA	0.736356652 NA	0.861580753 NA	0.731407365 NA	0.710114316 NA	0.531237044 NA
0.606473094	0.747294874 NA	0.747294874 NA	0.797537905 NA	0.855847911 NA	0.682682978 NA	0.727872623 NA	0.727872623 NA
0.667800812	0.888184446 NA	0.888184446 NA	0.730652848 NA	0.762889577 NA	0.377098924 NA	0.722742356 NA	0.587381402 NA
0.653977429	0.889827267 NA	0.889827267 NA	0.656335892 NA	0.861161332 NA	0.422641305 NA	0.731407365 NA	0.558997979 NA
0.734096099	0.899630794 NA	0.899630794 NA	0.843794293 NA	0.75194162	0.60560666	0.763068033	0.717138962
0.576492416	0.869747017 NA	0.869747017 NA	0.61761774 NA	0.859143639 NA	0.391755561 NA	0.747085252 NA	0.446632118 NA
0.869735968	0.938585668 NA	0.938585668 NA	0.946984901 NA	0.981093502 NA	0.975788263 NA	0.928304897 NA	0.968155913 NA
0.765042516	0.905370302 NA	0.905370302 NA	0.840818182 NA	0.870571578 NA	0.561825801 NA	0.74825692 NA	0.371233449 NA
0.727219945	0.888986965 NA	0.888986965 NA	0.785486563 NA	0.889718978 NA	0.556797065 NA	0.786199927 NA	0.460452597 NA
0.89657366	0.952111076 NA	0.952111076 NA	0.958765652 NA	0.97765264 NA	0.98278483 NA	0.954514229 NA	0.970471032 NA
0.771040324	0.825157229 NA	0.825157229 NA	0.899733696 NA	0.947743076 NA	0.860752945 NA	0.764399037 NA	0.872831809 NA
0.926452046	0.972201633 NA	0.972201633 NA	0.979486785 NA	0.990499991 NA	0.995427002 NA	0.972269406 NA	0.982456676 NA
0.628679527	0.737690574 NA	0.737690574 NA	0.821035677 NA	0.910997232 NA	0.691919143 NA	0.537854313 NA	0.632550176 NA
0.885611029	0.726921051 NA	0.726921051 NA	0.960502158 NA	0.97924536 NA	0.979228682 NA	0.880623378 NA	0.923814649 NA
0.931988572	0.964108285 NA	0.964108285 NA	0.978072333 NA	0.989080807 NA	0.994796497 NA	0.954610484 NA	0.981618909 NA
0.927273768	0.673958449 NA	0.673958449 NA	0.981739995 NA	0.984902622 NA	0.996759141 NA	0.906328416 NA	0.981767384 NA
0.988865124	0.992150359 NA	0.992150359 NA	0.993713546 NA	0.995920693 NA	0.998528592 NA	0.992513231 NA	0.997238103 NA
0.98419314	0.989678984 NA	0.989678984 NA	0.982097948 NA	0.989466703 NA	0.993055145 NA	0.989305367 NA	0.992635168 NA
0.958067161	0.983932148 NA	0.983932148 NA	0.992589314 NA	0.996247156 NA	0.997527681 NA	0.976578876 NA	0.99722055 NA
0.994851651	0.997867242 NA	0.997867242 NA	0.995082622 NA	0.996933345 NA	0.999158111 NA	0.9966989 NA	0.997900288 NA
0.85898661	0.904282614 NA	0.904282614 NA	0.968366764 NA	0.979312117 NA	0.994939977 NA	0.805504699 NA	0.914173544 NA
0.935564953	0.973570082 NA	0.973570082 NA	0.978789259 NA	0.986868678 NA	0.995543763 NA	0.96296746 NA	0.987338667 NA
0.836537982	0.911127666 NA	0.911127666 NA	0.894783574 NA	0.935304538 NA	0.940500458 NA	0.859397629 NA	0.911321251 NA
0.991269329	0.992647917 NA	0.992647917 NA	0.997570173 NA	0.995478453 NA	0.998657924 NA	0.995308609 NA	0.995054035 NA
0.811419877	0.895457626 NA	0.895457626 NA	0.907716133 NA	0.941292039 NA	0.731477449 NA	0.75166448 NA	0.749590257 NA
0.990584737	0.993944344 NA	0.993944344 NA	0.992456377 NA	0.995663432 NA	0.996242915 NA	0.995681202 NA	0.997993705 NA
0.797528252	0.952133676 NA	0.952133676 NA	0.856993064 NA	0.86835834 NA	0.881456547 NA	0.856641674 NA	0.872339977 NA
0.652022590	0.820590899 NA	0.820590899 NA	0.657289654 NA	0.914768467 NA	0.617715202 NA	0.874441696 NA	0.806430573 NA
0.622575239	0.845946965 NA	0.845946965 NA	0.452551477 NA	0.899761724 NA	0.69717153 NA	0.875645689 NA	0.818305179 NA
0.739730357	0.869699797 NA	0.869699797 NA	0.803398077 NA	0.917763541 NA	0.807767618 NA	0.879988067 NA	0.820012662 NA
0.790359046	0.882294922 NA	0.882294922 NA	0.856319226 NA	0.912124773 NA	0.900465558 NA	0.819106594 NA	0.893754628 NA
0.965542136	0.483448127 NA	0.483448127 NA	0.997471459 NA	0.995803687 NA	0.999665381 NA	0.936211851 NA	0.993416746 NA
0.938614281	0.956761528 NA	0.956761528 NA	0.979625771 NA	0.987848772 NA	0.989856699 NA	0.911855029 NA	0.972818901 NA
0.698158892	0.866652716 NA	0.866652716 NA	0.800084991 NA	0.975835127 NA	0.81537717 NA	0.863566169 NA	0.850533744 NA
0.908156301	0.945697007 NA	0.945697007 NA	0.974927135 NA	0.98637096 NA	0.998681292 NA	0.898155688 NA	0.974940439 NA
0.705986649	0.834670635 NA	0.834670635 NA	0.672676404 NA	0.878590481 NA	0.718073217 NA	0.904388938 NA	0.856481119 NA
0.943025998	0.964025989 NA	0.964025989 NA	0.944543624 NA	0.964224648 NA	0.970952345 NA	0.952715423 NA	0.962794245 NA
0.924214777	0.946252902 NA	0.946252902 NA	0.9421905 NA	0.837470999 NA	0.96549657 NA	0.939467411 NA	0.971109259 NA
0.943719714	0.969361899 NA	0.969361899 NA	0.951991496 NA	0.97496472 NA	0.968774031 NA	0.910140844 NA	0.977523868 NA
0.988545644	0.992554205 NA	0.992554205 NA	0.985517179 NA	0.989951795 NA	0.99557783 NA	0.992990492 NA	0.993482503 NA
0.965358544	0.976917934 NA	0.976917934 NA	0.990346983 NA	0.9916547 NA	0.998735927 NA	0.977476502 NA	0.990856825 NA
0.670554277	0.844306016 NA	0.844306016 NA	0.692365854 NA	0.916167508 NA	0.839538824 NA	0.84903246 NA	0.875150755 NA
0.911930325	0.938817905 NA	0.938817905 NA	0.964273344 NA	0.980939518 NA	0.988020352 NA	0.88494558 NA	0.972655873 NA
0.926374371	0.800674049 NA	0.800674049 NA	0.985145128 NA	0.990174479 NA	0.99487636 NA	0.910946967 NA	0.987550744 NA
0.819229831	0.908415624 NA	0.908415624 NA	0.802182678 NA	0.943728439 NA	0.845406103 NA	0.942752489 NA	0.919412678 NA
0.79779144	0.782488272 NA	0.782488272 NA	0.81749874 NA	0.961349671 NA	0.847176568 NA	0.893340773 NA	0.944661131 NA
0.794374099	0.883438309 NA	0.883438309 NA	0.914282689 NA	0.937452439 NA	0.707050368 NA	0.659517862 NA	0.695631614 NA
0.937192752	0.946937339 NA	0.946937339 NA	0.96941961 NA	0.979267395 NA	0.993810696 NA	0.91115819 NA	0.975271287 NA
0.949279751	0.960443708 NA	0.960443708 NA	0.978425027 NA	0.985318684 NA	0.99487953 NA	0.88787288 NA	0.984640485 NA
0.879817373	0.932389647 NA	0.932389647 NA	0.903589419 NA	0.956071225 NA	0.960723701 NA	0.931813614 NA	0.956348227 NA
0.872635298	0.918054701 NA	0.918054701 NA	0.845238529 NA	0.			

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UZ.P107	UZ.P108	UZ.P110	UZ.P111	UZ.P112	UZ.P113	UZ.P114	UZ.P060
0.772180253	0.699615997	0.849430069	0.682029693	0.941356006	0.688159237	0.713458022	0.960651331
0.626847178	0.579190316	0.676952274	0.428032407	0.95160675	0.609673469	0.638537759	0.961647984
0.993852742	0.996868911	0.996200241	0.99208117	0.944493843	0.994419885	0.987970113	0.956660526
0.94995493	0.951027107	0.956358211	0.941752482	0.951131106	0.952005431	0.950894842	0.966328261
0.460928593	0.40145991	0.677671261	0.485464666	0.975138281	0.636762557	0.609646887	0.978914367
0.862125553	0.845410226	0.865836124	0.847966069	0.872633535	0.866234738	0.870519509	0.882643462
0.963593261	0.965825838	0.965067509	0.953909167	0.96371271	0.963772797	0.962332944	0.967451568
0.80325065	0.774529691	0.820896065	0.732908162	0.866079093	0.758467404	0.741889334	0.862078625
0.533043677	0.50497713	0.654029932	0.414642674	0.967069547	0.534675847	0.555571069	0.974277834
0.966994679	0.973972926	0.972506265	0.96144621	0.741630297	0.972832726	0.96829491	0.705812785
0.888123081	0.892667172	0.918571619	0.871789054	0.799488178	0.92338085	0.907568368	0.781495086
0.928239061	0.929612165	0.937839294	0.922474434	0.934884081	0.937807068	0.933497131	0.955818069
0.926998504	0.923567957	0.935612411	0.918952946	0.929574717	0.927888763	0.932960735	0.93333372
0.951419505	0.950342623	0.966673525	0.951661501	0.989826849	0.956844956	0.952800145	0.986913322
0.969706608	0.984252054	0.978068527	0.948270665	0.907779809	0.974368064	0.815026023	0.879947357
0.916887236	0.917517317	0.921101565	0.91646324	0.921222054	0.925886751	0.923963142	0.943575247
0.993145978	0.996840045	0.996172886	0.99045318	0.912861915	0.994491463	0.98686815	0.906847403
0.984239372	0.986074298	0.990485283	0.981812674	0.786364824	0.989095044	0.978816139	0.834533572
0.919181084	0.913633846	0.921281175	0.919390964	0.603953294	0.930073096	0.931338969	0.702649573
0.758308399	0.657096455	0.830708747	0.542884555	0.91927686	0.49159742	0.524239889	0.94013059
0.988342893	0.993144437	0.993248902	0.99170543	0.790073092	0.991172422	0.989644594	0.832867805
0.905566233	0.912398982	0.90870799	0.870588613	0.971424736	0.928166715	0.707355927	0.98040802
0.996872433	0.996836736	0.998220055	0.995781673	0.872061236	0.996024262	0.994369855	0.813382179
0.995145491	0.996369577	0.995025532	0.994220172	0.900072411	0.995247985	0.994882734	0.912560128
0.987522395	0.987294653	0.985373322	0.973843833	0.7365323	0.989885519	0.983578828	0.748976808
0.747107801	0.71930588	0.805961774	0.709927953	0.894048196	0.743184377	0.738925774	0.893324213
0.629573295	0.579512998	0.725984125	0.511725946	0.968872475	0.71614076	0.684370217	0.977190926
0.924540787	0.929796601	0.929168051	0.875384041	0.883570901	0.943256249	0.931080232	0.871373281
0.818332706	0.789313661	0.834657776	0.787806628	0.952319842	0.808049111	0.81975623	0.966911881
0.788464514	0.78334298	0.742727093	0.837895172	0.903558745	0.748575722	0.858316209	0.935601262
0.684163205	0.586504854	0.733805403	0.458122907	0.923042147	0.401849288	0.455530847	0.953418045
0.996838448	0.99706513	0.998610048	0.998499923	0.981061236	0.998174213	0.996354744	0.988153884
0.667800812	0.653977429	0.734096099	0.576492416	0.869735968	0.765042516	0.727219945	0.896587366
0.888184446	0.889827267	0.899630794	0.869747017	0.938585668	0.905370302	0.888986965	0.952111076
0.730652848	0.656315892	0.843794293	0.617617714	0.946984901	0.840818182	0.840818182	0.958765652
0.762889577	0.861161332	0.75184162	0.859143639	0.981093502	0.870571578	0.889718978	0.97765264
0.377098924	0.422641305	0.60560666	0.391755561	0.975788263	0.561825801	0.556797065	0.96278483
0.722742356	0.731407365	0.763068033	0.747085252	0.928304897	0.74825692	0.786199927	0.954514229
0.587381402	0.558997979	0.717138962	0.446632118	0.968155913	0.371233449	0.460452597	0.970471032
0.686636571	0.700297685	0.707342175	0.677330473	0.948925377	0.698390003	0.762046096	0.955893157
NA	0.42869357 NA	0.481916595	0.545080792	0.981141775	0.576397184	0.526576206	0.980252759
	0.42869357	0.637136405 NA	0.44935506	0.667607889	0.98229307	0.647607889	0.983214237
0.42869357 NA		0.637136405	0.675089865 NA	0.98229307	0.647607889	0.647607889	0.98854815
0.481916595	0.637136405 NA	0.44935506	0.675089865 NA	0.98229307	0.647607889	0.647607889	0.976715004
0.545080792	0.44935506	0.675089865 NA	0.675089865 NA	0.98229307	0.647607889	0.647607889	0.98854815
0.981141775	0.978132789	0.982829307	0.966751484 NA	0.986461238 NA	0.986461238	0.986461238	0.976671548
0.576397184	0.51690636	0.647607889	0.45340845	0.986461238 NA	0.986461238 NA	0.986461238 NA	0.976671548
0.526576206	0.49555411	0.724449645	0.418239021	0.977034484	0.41868963 NA	0.41868963 NA	0.976671548
0.980252759	0.983214237	0.988548155	0.976715004	0.643040044	0.98542381	0.976671548 NA	0.925855333
0.875262215	0.87084619	0.892617404	0.856386326	0.925989759	0.880776396	0.8811272	0.43653348
0.990718866	0.995280236	0.995234831	0.987644565	0.759423503	0.99305398	0.985086871	0.951517983
0.747519786	0.667435236	0.76793966	0.605417181	0.93163377	0.687080096	0.679256844	0.958290409
0.986549642	0.983321163	0.979742646	0.9741389	0.932460889	0.980123883	0.984957735	0.841070635
0.993572576	0.99429257	0.99365612	0.995203779	0.787929547	0.994947081	0.99617583	0.927960293
0.990523589	0.995967815	0.993250042	0.993386768	0.950912438	0.99438118	0.994233885	0.992796029
0.997099967	0.9978628	0.998032286	0.999499129	0.956986024	0.997778118	0.997849061	0.949671948
0.993166076	0.994061566	0.993050972	0.994193559	0.984868835	0.994025101	0.994532459	0.954775123
0.997147906	0.998021479	0.995720639	0.996918854	0.866240707	0.997499103	0.997148777	0.948553459
0.998086682	0.999186212	0.999089369	0.999306381	0.968529769	0.999107241	0.998655657	0.971422767
0.986701261	0.995085038	0.973294307	0.968362941	0.816911803	0.953417158	0.982464713	0.887653469
0.989341881	0.985584156	0.984381297	0.985639805	0.721222612	0.993707582	0.992367871	0.845409674
0.936568204	0.939296237	0.925083031	0.930806258	0.878466593	0.941444924	0.955573422	0.878539859
0.994854996	0.998636437	0.99949759	0.999531561	0.993237532	0.998014143	0.995663905	0.967743914
0.718618484	0.708600747	0.781752015	0.744519701	0.916879178	0.758425784	0.780868145	0.947363389
0.99641357	0.99684896	0.996615274	0.997756009	0.94115937	0.996940625	0.996270771	0.935121888
0.88517441	0.879782233	0.882143022	0.896697805	0.852863064	0.900768102	0.910961553	0.918851694
0.779526946	0.75888173	0.784216676	0.576431276	0.95146769	0.8307928	0.784210981	0.969715324
0.748600929	0.750240544	0.810236676	0.649061255	0.953753717	0.834519052	0.805008009	0.972934673
0.874481544	0.863087432	0.795775626	0.751624812	0.939218397	0.809009362	0.89879828	0.951919059
0.879287466	0.895200649	0.916596089	0.891939818	0.90125599	0.929736751	0.916073754	0.94362812
0.995660828	0.999713991	0.998972692	0.999905948	0.985274332	0.997558969	0.996017663	0.96736625
0.992301545	0.994542268	0.997331068	0.998919546	0.906595442	0.99494118	0.994298256	0.956577952
0.891292673	0.883112716	0.89957801	0.797481232	0.929976721	0.869947322	0.922504542	0.93301761
0.998259102	0.999635374	0.996199034	0.996560437	0.835054398	0.998044358	0.997993891	0.930680483
0.787076147	0.812555404	0.815347722	0.693217742	0.941470434	0.840282263	0.841170031	0.963968311
0.969837887	0.968822825	0.973750096	0.972326322	0.938098188	0.976543773	0.976289704	0.966662531
0.965468338	0.974390083	0.988138034	0.968106799	0.853446229	0.982923434	0.977100729	0.888287592
0.977784416	0.9693942	0.981750588	0.970857703	0.944207467	0.977265442	0.973565695	0.940572052
0.994556804	0.994778881	0.993490543	0.992450262	0.936937596	0.996700214	0.996254171	0.931863727
0.99318543	0.998632518	0.998525449	0.999417318	0.9270431	0.996936466	0.994608132	0.836366124
0.87789349	0.837806464	0.895306443	0.81644625	0.849137262	0.907807997	0.892115971	0.908416193
0.98832739	0.985531287	0.987184908	0.988552192	0.844947968	0.988842932	0.988997966	0.893129343
0.99054116	0.994441058	0.995297329	0.995657645	0.900942005	0.993279733	0.992233126	0.933583557
0.89806962	0.885387105	0.897853236	0.826017212	0.858675845	0.899238562	0.917766578	0.931463021
0.872983555	0.87506379	0.932324704	0.874693678	0.896666039	0.907682493	0.905548078	0.925242572
0.727662609	0.672356172	0.807849075	0.707056895	0.887770288	0.722910182	0.745194129	0.942882789
0.993165136	0.993169921	0.99223995	0.991875847	0.796224684	0.99407139	0.994340996	0.859199889
0.994890143	0.995675352	0.994247951	0.994559249	0.910777495	0.995643883	0.995503871	0.969975632
0.959571876	0.957738185	0.957393158	0.962151029	0.805419313	0.975557312	0.968248463	0.846943618
0.935192716	0.929044287	0.941336254	0.864919601	0.93888151	0.944699815	0.944879764	0.95904953
0.917260617	0.916103874	0.930352765	0.914679283	0.937847105	0.922999397	0.931149448	0.916870169
0.811538796	0.79498648	0.787665333	0.735235693	0.892674617	0.83929639		

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UZ.P061	UZ.P063	UZ.P064	UZ.P124	UZ.P127	UZ.P128	UZ.P129	UZ.P130
0.484519898	0.976186007	0.384017551	0.797543851	0.962803981	0.800509267	0.993804848	0.991639821
0.845722034	0.973261441	0.600161214	0.930482172	0.986422687	0.984139065	0.99573321	0.988795232
0.972215041	0.966724365	0.953417525	0.912044008	0.972259622	0.984300856	0.992168164	0.992850631
0.808734789	0.977810536	0.80532328	0.965770822	0.973880716	0.974954639	0.994656774	0.992445518
0.874317057	0.988741443	0.699285864	0.976830592	0.992982	0.992960818	0.997264398	0.992621006
0.580230231	0.914350431	0.447337874	0.739337859	0.947876489	0.7097624	0.985747659	0.981440065
0.885571915	0.978815887	0.84851261	0.960852091	0.985552764	0.961555893	0.995647329	0.993311719
0.648953429	0.899717428	0.899717428	0.543377539	0.779829192	0.933576961	0.836938556	0.980508944
0.852432614	0.990358757	0.569160674	0.976079691	0.989102483	0.991710436	0.994895555	0.989425178
0.836840217	0.738185224	0.798462808	0.888838642	0.799761146	0.800605347	0.971534301	0.966031449
0.752698093	0.856108998	0.703654727	0.791313081	0.925126246	0.884022954	0.981445937	0.976397057
0.642240144	0.969840183	0.634267286	0.884471502	0.970122292	0.931845818	0.992627643	0.98998576
0.490826272	0.952071525	0.600377725	0.725707231	0.961974738	0.675825645	0.992648888	0.989595247
0.944068308	0.990011325	0.902223573	0.82132825	0.996505891	0.794261574	0.998022781	0.996460526
0.910226321	0.880033571	0.941765044	0.988612205	0.9811713065	0.980899106	0.995498301	0.983785036
0.481610532	0.9542423	0.553096099	0.848936465	0.950659217	0.838506443	0.990201653	0.988200814
0.93147282	0.915967918	0.910506613	0.922852916	0.931259068	0.946636897	0.989963312	0.993090505
0.902144539	0.859438388	0.885149797	0.848643299	0.926020408	0.955844438	0.978928698	0.970935914
0.869491782	0.827796889	0.876620562	0.937539417	0.820577063	0.912126896	0.95670259	0.947989691
0.866057106	0.951329181	0.621126572	0.891021608	0.961411257	0.976232868	0.988283176	0.988055055
0.927492299	0.851529359	0.867807378	0.68671422	0.894932068	0.682523638	0.973221092	0.98125621
0.922251594	0.995865005	0.913983018	0.995756132	0.9938233	0.995180948	0.999549253	0.991694423
0.987793415	0.683463979	0.993339201	0.997453646	0.987955208	0.990495004	0.98887312	0.994894858
0.993026333	0.857142857	0.992545565	0.991141257	0.956452668	0.984858441	0.985527729	0.985699859
0.967872428	0.719410634	0.982895161	0.996298389	0.929478354	0.98234161	0.983949756	0.970141551
0.549980817	0.937845579	0.455816585	0.903902229	0.963503059	0.923109105	0.990184479	0.986951388
0.868778548	0.984076629	0.711440973	0.980534149	0.992853181	0.990550092	0.996860306	0.994008607
0.883988243	0.926924172	0.866952566	0.948783748	0.952024151	0.947547447	0.988897107	0.982789732
0.777606956	0.977527573	0.626854439	0.732430706	0.983641405	0.746773899	0.993795234	0.992391162
0.713295172	0.957027654	0.569803583	0.800009641	0.945009292	0.903215427	0.990620334	0.987923413
0.69542529	0.970759551	0.435162572	0.868825033	0.951870537	0.900034344	0.992592391	0.988859809
0.968645832	0.990368553	0.884977023	0.812162795	0.990258235	0.847035268	0.996300485	0.999165093
0.771040324	0.926452046	0.628679527	0.885611029	0.931988572	0.927273768	0.988865124	0.984193134
0.825157229	0.972201633	0.737690574	0.726921051	0.964108285	0.673958449	0.992150359	0.989678984
0.899733696	0.979486785	0.821035677	0.960502158	0.978072333	0.981739995	0.993713546	0.982097948
0.947743076	0.990498991	0.910997232	0.97924536	0.989080807	0.984900282	0.995920693	0.989466703
0.860752945	0.995427002	0.691919143	0.979228682	0.994796497	0.996759141	0.998582592	0.993055145
0.764399037	0.972269406	0.537854313	0.880623378	0.954610484	0.906328416	0.992513231	0.989305367
0.872831809	0.982456676	0.632550176	0.923814649	0.981618909	0.981767384	0.997238103	0.992635168
0.750375233	0.968687799	0.54490385	0.864469503	0.961984377	0.865587189	0.995596012	0.979166088
0.875262215	0.990718866	0.747519786	0.986549642	0.993572576	0.990523589	0.997099967	0.993166076
0.87084619	0.995280236	0.667435236	0.983321163	0.99429257	0.995967815	0.9978628	0.994061566
0.892617404	0.995234831	0.76793966	0.979742646	0.99365612	0.993250042	0.998032286	0.993050972
0.856386326	0.987644565	0.605417181	0.9741389	0.995203779	0.993386768	0.999499129	0.994193559
0.925989759	0.759423503	0.93163377	0.932460889	0.787292547	0.950912438	0.956986024	0.948866835
0.880776396	0.993805398	0.687080096	0.980123883	0.994947081	0.99438118	0.997778118	0.994025101
0.8811272	0.985086871	0.679256844	0.984957735	0.99617583	0.994233885	0.997849061	0.994532459
0.925855333	0.43653348	0.951517983	0.958290409	0.841070635	0.927960293	0.949671948	0.954775123
NA	0.948137506	0.676049591	0.942923876	0.958984436	0.941953883	0.991269989	0.98796643
0.948137506 NA	0.968812279 NA	0.968812279 NA	0.971472747 NA	0.971472747 NA	0.914235002 NA	0.940761195 NA	0.97519457
0.676049591	0.968812279 NA	0.812380372 NA	0.971472747 NA	0.812380372 NA	0.953583039 NA	0.838679372 NA	0.992820742
0.942923876	0.971472747 NA	0.953583039 NA	0.855307553 NA	0.855307553 NA	0.912268646 NA	0.912268646 NA	0.992492921
0.958984436	0.914235002 NA	0.838679372 NA	0.404451372 NA	0.404451372 NA	0.920203477 NA	0.982860753 NA	0.93384818
0.941953883	0.940761195 NA	0.992802748 NA	0.992492921 NA	0.992492921 NA	0.982860753 NA	0.208585008 NA	0.208585008
0.991269989	0.96877521 NA	0.992802748 NA	0.985341709 NA	0.985341709 NA	0.982860753 NA	0.986310865 NA	0.550211864
0.98796643	0.97519457 NA	0.990247684 NA	0.992492921 NA	0.992492921 NA	0.986310865 NA	0.460706633 NA	0.584844366
0.980032837	0.979553037 NA	0.95145463 NA	0.841896711 NA	0.841896711 NA	0.986457318 NA	0.459590494 NA	0.930332075
0.996307936	0.959240133 NA	0.996832418 NA	0.995421233 NA	0.995421233 NA	0.986457318 NA	0.90228583 NA	0.805384184
0.852204685	0.882866159 NA	0.793615974 NA	0.791598896 NA	0.791598896 NA	0.937957443 NA	0.741624117 NA	0.818338119
0.965910704	0.882842627 NA	0.942610575 NA	0.86735929 NA	0.86735929 NA	0.930338939 NA	0.985389749 NA	0.78293831
0.909226868	0.935169928 NA	0.89103804 NA	0.932171095 NA	0.932171095 NA	0.930245136 NA	0.740597831 NA	0.722936223
0.993451797	0.960405702 NA	0.988239042 NA	0.987629001 NA	0.987629001 NA	0.986256591 NA	0.691436772 NA	0.980236223
0.850102658	0.97873968 NA	0.745900618 NA	0.965882283 NA	0.965882283 NA	0.979550102 NA	0.651006711 NA	0.72943765
0.993464343	0.928170595 NA	0.995974147 NA	0.993106038 NA	0.993106038 NA	0.987607523 NA	0.822714681 NA	0.85248537
0.949462527	0.954950536 NA	0.831117728 NA	0.950946256 NA	0.950946256 NA	0.95847083 NA	0.999406739 NA	0.990191141
0.833464229	0.99872263 NA	0.816824452 NA	0.974310731 NA	0.974310731 NA	0.992834222 NA	0.990709727 NA	0.980204735
0.849572816	0.994957872 NA	0.805811316 NA	0.964045527 NA	0.964045527 NA	0.987825913 NA	0.987603854 NA	0.976823764
0.874777894	0.985956347 NA	0.830785509 NA	0.839386151 NA	0.839386151 NA	0.985881704 NA	0.983276526 NA	0.980164282
0.890881016	0.985311305 NA	0.849983843 NA	0.839386151 NA	0.839386151 NA	0.985881704 NA	0.985433103 NA	0.993951613
0.958416976	0.972267458 NA	0.877150139 NA	0.542033345 NA	0.542033345 NA	0.356406673 NA	0.98585031 NA	0.991908488
0.957688887	0.989521284 NA	0.905377969 NA	0.870091748 NA	0.870091748 NA	0.93937503 NA	0.972127766 NA	0.981908488
0.914701278	0.966790782 NA	0.862043736 NA	0.857908159 NA	0.857908159 NA	0.934676859 NA	0.889881973 NA	0.982717317
0.96271992	0.980141919 NA	0.91015068 NA	0.79009956 NA	0.79009956 NA	0.921531356 NA	0.977971014 NA	0.981012769
0.874278792	0.996725677 NA	0.841582735 NA	0.972827386 NA	0.972827386 NA	0.968050117 NA	0.91251636 NA	0.908496331
0.960229096	0.995813734 NA	0.955911804 NA	0.66234661 NA	0.66234661 NA	0.788209256 NA	0.958190319 NA	0.992696867
0.957652399	0.953119678 NA	0.965573981 NA	0.964899759 NA	0.964899759 NA	0.911883718 NA	0.955193489 NA	0.76810415
0.960212147	0.984461428 NA	0.960353261 NA	0.987040175 NA	0.987040175 NA	0.955010924 NA	0.973484799 NA	0.856737993
0.993106184	0.96100832 NA	0.992636514 NA	0.983724728 NA	0.983724728 NA	0.867137067 NA	0.965713374 NA	0.7800263
0.973926331	0.815614773 NA	0.980009799 NA	0.919125831 NA	0.919125831 NA	0.777624655 NA	0.868623653 NA	0.772802985
0.872269756	0.977607477 NA	0.838270899 NA	0.919165829 NA	0.919165829 NA	0.837928762 NA	0.951468866 NA	0.928728308
0.95061784	0.978340941 NA	0.922438385 NA	0.926725776 NA	0.926725776 NA	0.840902954 NA	0.938600496 NA	0.977420381
0.937097631	0.957675822 NA	0.830804825 NA	0.54018191 NA	0.54018191 NA	0.931304105 NA	0.523787348 NA	0.867649804
0.900224939	0.990382346 NA	0.861637331 NA	0.848004047 NA	0.848004047 NA	0.915638963 NA	0.989600895 NA	0.847160531
0.905963068	0.949301431 NA	0.824534732 NA	0.673654815 NA	0.673654815 NA	0.928522077 NA	0.565826074 NA	0.888228448
0.85080765	0.983185531 NA	0.655171192 NA	0.883666807 NA	0.883666807 NA	0.888372366 NA	0.94252538 NA	0.983186794
0.955195011	0.949152542 NA	0.926899962 NA	0.889954821 NA	0.889954821 NA	0.726190871 NA	0.912831152 NA	0.888090432
0.972411459	0.990476048 NA	0.908764509 NA	0.827890801 NA	0.827890801 NA	0.84129093 NA	0.956483016 NA	0.986447265
0.956330395	0.940180704 NA	0.937324222 NA	0.857332215 NA	0.857332215 NA	0.87945688 NA	0.992891956 NA	0.939659418
0.921586203	0.993387215 NA	0.920150353 NA	0.756744289 NA	0.756744289 NA	0.883507892 NA	0.972060461 NA	0.990142011
0.895606757	0.944242695 NA	0.772050678 NA	0.552448544 NA	0.552448544 NA	0.931088222 NA	0.352414753 NA	0.958172927
0.8328684	0.993062126 NA	0.772870751 NA	0.84202056				

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UZ.P131	UZ.P132	UZ.P133	UZ.P115	UZ.P134	UZ.P135	UZ.P136	UZ.P137
0.962371548	0.998281376	0.839354473	0.949250827	0.916503125	0.991609505	0.797855468	0.996264917
0.993340359	0.998210867	0.905265471	0.989320885	0.896481874	0.998166713	0.67010731	0.995031159
0.85927683	0.997197242	0.918516742	0.923174738	0.973907342	0.992961671	0.979809818	0.993381879
0.962959562	0.998461034	0.881690183	0.956206519	0.940519797	0.995709419	0.945128583	0.995752207
0.99663806	0.998166494	0.979532723	0.991588101	0.935708335	0.997060879	0.703857029	0.9968088
0.965090815	0.994762627	0.715753092	0.936484734	0.869714572	0.986629649	0.79539405	0.988526648
0.991366877	0.998382385	0.915591313	0.985073147	0.950607602	0.995563064	0.964212645	0.996571717
0.897073703	0.995034437	0.644140421	0.886972107	0.874209335	0.988821538	0.650824582	0.9893038
0.993577239	0.997795795	0.955958664	0.989211003	0.888314011	0.998757877	0.591963609	0.994392847
0.966584967	0.984276631	0.754067971	0.868947087	0.845533818	0.97669466	0.906261654	0.970611645
0.73417487	0.990946825	0.582931855	0.841620339	0.811160286	0.981699175	0.884359304	0.983198947
0.868568575	0.996840228	0.831791692	0.944199079	0.932746657	0.984525183	0.906556695	0.994144982
0.976775032	0.996414679	0.84126885	0.964980788	0.912527933	0.993582366	0.907808842	0.993758567
0.998034941	0.999228256	0.981706345	0.993708268	0.966845696	0.996010886	0.972087961	0.997362394
0.995687206	0.996325173	0.904773535	0.970988104	0.957107469	0.986557285	0.978800334	0.988879800
0.974666886	0.996014778	0.840282094	0.957301009	0.899797062	0.980751316	0.855409071	0.993383163
0.935265872	0.995857646	0.908215165	0.902305424	0.947640068	0.989930423	0.973817286	0.989971816
0.601386427	0.988082598	0.778408671	0.811323677	0.915006676	0.983311978	0.946106149	0.979697164
0.894338056	0.974145548	0.894097667	0.809911845	0.800488879	0.987548282	0.711397513	0.942959586
0.835040138	0.995172295	0.886581219	0.877655641	0.927315029	0.992508486	0.57359314	0.989271003
0.70581713	0.987565183	0.727536092	0.659236545	0.894659992	0.969939933	0.939588607	0.962481265
0.997163024	0.999642495	0.994892614	0.993878954	0.931713988	0.999527606	0.930622627	0.997219949
0.994021049	0.986731654	0.974293237	0.968631105	0.992877734	0.986763365	0.996284794	0.935753846
0.988731474	0.979356568	0.977883751	0.94472323	0.979693141	0.992255107	0.988183161	0.956580071
0.992406759	0.964812367	0.970617355	0.92835704	0.962779878	0.98800578	0.977506775	0.938327658
0.960545045	0.995942868	0.768256276	0.944995981	0.876053847	0.992449469	0.680597221	0.992215681
0.996628468	0.998120502	0.99879965	0.991394309	0.952922869	0.996337874	0.83129702	0.997188689
0.973495351	0.995065085	0.898119122	0.952733167	0.874913216	0.990881872	0.953995464	0.990929077
0.892850342	0.998595352	0.817619938	0.957920495	0.922715434	0.996170699	0.818550859	0.997081964
0.962415763	0.996259207	0.719808777	0.94549498	0.864988624	0.993087502	0.884028578	0.993017822
0.970178415	0.997542771	0.814128226	0.951581972	0.896772976	0.992845675	0.743744793	0.996151748
0.937049512	0.999374722	0.924679106	0.95667554	0.979622725	0.995604247	0.988534778	0.998500963
0.958067161	0.994851651	0.859899661	0.935564953	0.836537982	0.991269329	0.811419877	0.990584737
0.983932148	0.997867242	0.904282614	0.973570082	0.911127666	0.992647917	0.895457626	0.993944344
0.992589314	0.995082822	0.968366764	0.978789259	0.894783574	0.99757071	0.982456377	0.992456377
0.996247156	0.996933345	0.979312117	0.986886878	0.935304538	0.995478453	0.941292039	0.985663432
0.997527681	0.999158111	0.984939977	0.995543763	0.940500458	0.998657924	0.731477449	0.996242915
0.976578876	0.9969989	0.805504699	0.96296746	0.859397629	0.995308609	0.75166448	0.995681202
0.99722055	0.997900288	0.914173544	0.987338667	0.911321251	0.995054035	0.749590257	0.997993705
0.99588498	0.998194059	0.827496011	0.985643744	0.899754707	0.994973511	0.808061602	0.997101538
0.997147906	0.998086682	0.986701261	0.989341881	0.936568204	0.994854996	0.718618484	0.99641357
0.998021479	0.999186212	0.995085038	0.995584156	0.939296237	0.998636437	0.708600747	0.99684896
0.995720639	0.999089369	0.973294307	0.994381297	0.925083031	0.99949759	0.781752015	0.996615274
0.996918854	0.999306381	0.968362941	0.995639805	0.930806258	0.999531561	0.744519701	0.997756009
0.866240707	0.968529769	0.816911803	0.721222612	0.878486593	0.993237532	0.916879178	0.94115937
0.997499103	0.999107241	0.953417158	0.993707582	0.941444924	0.998014143	0.758425784	0.996940625
0.997148777	0.998655657	0.982464713	0.992367871	0.955573422	0.995663905	0.780868145	0.996270771
0.948553459	0.971422767	0.887653469	0.845409674	0.878539859	0.967743914	0.947363389	0.935121888
0.980032837	0.996307936	0.852204685	0.965910704	0.909226868	0.993451797	0.850102658	0.993464343
0.979530337	0.959240133	0.882866159	0.882842627	0.935169928	0.960405702	0.97873968	0.928170595
0.95145463	0.996832418	0.793615974	0.94261055	0.90103804	0.988239042	0.745900618	0.995974147
0.841896711	0.995421233	0.791598896	0.86735929	0.932171095	0.987629001	0.965882283	0.993106038
0.904784891	0.91882331	0.915245671	0.728316208	0.855494344	0.974204947	0.892450208	0.917161168
0.986457318	0.993764691	0.937957443	0.930338939	0.930245136	0.983625691	0.979550102	0.987607523
0.460706633	0.459590494	0.90228583	0.741624117	0.805389749	0.740597831	0.691436772	0.651006711
0.550211864	0.584844366	0.584844366	0.930332075	0.805384184	0.818338119	0.78293831	0.72943765
NA	0.580672128	0.580672128	0.756183952	0.611785977	0.80756809	0.781873011	0.723208458
0.580672128 NA	0.895254731	0.895254731	0.895254731	0.646174789	0.777478712	0.661447313	0.392550143
0.756183952	0.646174789 NA	0.701227317	0.701227317	0.808776826	0.786717284 NA	0.914861007	0.685670648
0.611785977	0.777478712	0.808776826	0.786717284 NA	0.812051254	0.755795981	0.818641193 NA	0.789960175
0.80756809	0.661447313	0.914861007	0.812051254	0.906670791	0.739525717	0.818641193	0.739525717
0.781873011	0.661447313	0.685670648	0.755795981	0.652638191	0.794794145	0.789960175 NA	0.789960175
0.700063189	0.685670648	0.889424036	0.652638191	0.74991705	0.762152805	0.858619931	0.784989316
0.723208458	0.392550143	0.859459896	0.74991705	0.99544906	0.887855596	1	0.997111913
0.79141698	0.787144764	0.985386637	0.981832392	0.981832392	0.873178617	0.994212082	0.997263377
0.995871942	0.999378806	0.974557865	0.969862626	0.844683342	0.988115327	0.823244815	0.990897414
0.990876211	0.992265228	0.877775853	0.912113087	0.863826274	0.952366001	0.839247967	0.988824114
0.988606208	0.996467273	0.954294211	0.972246987	0.96184475	0.986372961	0.985556873	0.993811744
0.959305615	0.992786773	0.961789844	0.835717591	0.897550944	0.939900266	0.991402724	0.991973822
0.984164179	0.996004545	0.835717591	0.897550944	0.939900266	0.991402724	0.972955822	0.993863664
0.740373131	0.996004545	0.835717591	0.897550944	0.939900266	0.991402724	0.972955822	0.993863664
0.97731889	0.995641667	0.82564874	0.949818371	0.844933372	0.986492833	0.969833965	0.994165307
0.840187228	0.993265655	0.803244443	0.775088874	0.933561482	0.950765921	0.942180279	0.988750463
0.918454803	0.894437593	0.939783891	0.896572414	0.792496868	0.92458058	0.763570341	0.894149615
0.995967996	0.998191954	0.998057023	0.946758546	0.91780027	0.985724505	0.919783478	0.996313403
0.776734948	0.689304548	0.910861813	0.777677316	0.795118664	0.790262603	0.79302818	0.745935771
0.857347163	0.825727821	0.940851112	0.873084701	0.392427962	0.874302881	0.851715254	0.830451
0.782473999	0.440730086	0.876928927	0.583022987	0.825826614	0.799341163	0.826316356	0.462661738
0.780682887	0.486756268	0.834566241	0.516908213	0.773520961	0.766241413	0.810454888	0.508988263
0.906210641	0.934552136	0.89876553	0.864347942	0.766637143	0.937209431	0.850881068	0.930316873
0.971313894	0.991595893	0.982739592	0.905004327	0.916943145	0.916943145	1	0.937824515
0.546590142	0.861918416	0.803688454	0.748404648	0.847680101	0.887791717	0.873622445	0.860933679
0.595180996	0.818338715	0.757569423	0.672694787	0.716520651	0.880530397	0.803305234	0.8170908
0.860233066	0.875630163	0.855403015	0.803273398	0.825508857	0.901460509	0.890630292	0.872210428
0.948379542	0.994949962	0.861318091	0.873883849	0.90248101	0.99898547	0.434734886	0.990866051
0.878659966	0.874916438	0.755846624	0.743113606	0.846363934	0.926473544	0.864278703	0.871968191
0.933248112	0.99609531	0.848168407	0.882512414	0.960994918	0.994382022	0.957016777	0.9930902
0.937002531	0.918631965	0.955008886	0.815004294	0.916237166	0.969744206	0.930906021	0.920726447
0.982192056	0.996937244	0.974826564	0.954723663	0.9119752975	0.988553563	0.920524263	0.994349072
0.954319255	0.965790726	0.897713476	0.922205037	0.830755674	0.966195463	0.854745504	0.962401141
0.750934854	0.997763627	0.859755933	0.868376332	0.855745419	0.999745082	0.727674713	0.993944265
0.634133746	0.691778367	0.70685032	0.381300144	0.840560708	0.		

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UZ.P138	UZ.P139	UZ.P140	UZ.P141	UZ.P142	UZ.P143	UZ.P116	UZ.P144
0.929019877	0.85772685	0.864670615	0.86714723	0.871051956	0.835126147	0.911919203	0.869852396
0.922308979	0.599059683	0.641131203	0.643864631	0.870692753	0.997611073	0.981587539	0.845216065
0.971105031	0.995145918	0.993931259	0.993062327	0.974394147	0.986559952	0.377664743	0.981053188
0.97110228	0.935948951	0.936733847	0.935105828	0.926989325	0.99018437	0.959444575	0.961385186
0.868865855	0.748715886	0.709855556	0.853390576	0.884906644	0.99684612	0.994853787	0.887428792
0.912537453	0.80347842	0.796196943	0.820868139	0.811711412	0.793524988	0.921532341	0.857918119
0.973030122	0.954017686	0.955918983	0.9534563	0.951617712	0.978160962	0.960775198	0.919962105
0.913722283	0.795662132	0.798401201	0.819161606	0.81976687	0.877024764	0.857228006	0.821253123
0.892978384	0.684495688	0.649375226	0.78288669	0.856925865	0.996551004	0.990885171	0.873435401
0.773405553	0.951990205	0.940817204	0.918571496	0.887131035	0.926790528	0.95790047	0.894706848
0.857427281	0.80743723	0.798980732	0.829006752	0.837920071	0.931935837	0.701022566	0.776509918
0.890946349	0.905282849	0.902504015	0.907326788	0.899689846	0.95506228	0.510748751	0.926253375
0.940326436	0.895797305	0.907415146	0.884956109	0.891620156	0.613887224	0.935691318	0.913883816
0.979742534	0.946462587	0.943004526	0.953310587	0.963176383	0.641344839	0.990183961	0.948581729
0.987440646	0.912295419	0.971454319	0.972553615	0.980634632	0.989120694	0.99421766	0.978627662
0.93499545	0.90355094	0.892055925	0.909575404	0.889704334	0.866429411	0.955272762	0.931940161
0.958638776	0.996688369	0.996667911	0.988637724	0.9411729	0.958575978	0.942148602	0.943576243
0.918633895	0.985763533	0.981045827	0.974084312	0.943983482	0.970594279	0.458022405	0.953369061
0.875281246	0.846112912	0.822079405	0.814752542	0.789685616	0.983544757	0.923786123	0.933532785
0.952102255	0.87570519	0.858208327	0.889713111	0.891134216	0.989348219	0.774769215	0.965970499
0.886779522	0.9899412	0.987808393	0.985759603	0.946993176	0.789541767	0.868269793	0.868877052
0.941940302	0.798451911	0.842033754	0.860078591	0.908707645	0.999868313	0.992305722	0.972310916
0.976613807	0.99754977	0.997607066	0.996478342	0.996962656	0.997472807	0.998311105	0.9917761002
0.986448912	0.993123443	0.9889295	0.991190018	0.993264665	0.995838805	0.993813522	0.991718927
0.954132256	0.950628063	0.954251784	0.96095235	0.985533136	0.996984101	0.993043659	0.977825757
0.873225301	0.834022241	0.830314083	0.879167546	0.843185898	0.957830703	0.902694858	0.866339816
0.913809826	0.691501187	0.739380503	0.790189703	0.923924143	0.996107992	0.98891763	0.891121949
0.928551289	0.829739526	0.887456486	0.89648886	0.910116424	0.985079615	0.946912385	0.896660707
0.910341792	0.863912056	0.87770914	0.87681066	0.886070435	0.769035937	0.544669815	0.853129823
0.776212116	0.855281405	0.855874983	0.797260715	0.785425022	0.938554156	0.876647076	0.693072395
0.88158929	0.771446844	0.789331012	0.813386759	0.849189266	0.91868818	0.941808508	0.820666061
0.980550001	0.999919966	0.999244218	0.998447882	0.985492178	0.862997253	0.929067927	0.940419753
0.797528252	0.652022508	0.622575239	0.739730357	0.790359046	0.965542126	0.938614281	0.698158892
0.952133676	0.820590899	0.845946965	0.869899797	0.882294922	0.483448127	0.956761528	0.866652716
0.85693064	0.657289654	0.452551477	0.803398077	0.856319226	0.997471459	0.979625771	0.800084991
0.86835834	0.914786467	0.899761724	0.917783541	0.912124773	0.985803687	0.987848772	0.975835127
0.881456547	0.617715202	0.697117153	0.807767618	0.900465558	0.999665381	0.989856699	0.815337717
0.856641674	0.874441696	0.875645689	0.879988067	0.819106594	0.936211851	0.911855029	0.863566169
0.872339977	0.806430573	0.818305179	0.820012662	0.893754628	0.993416746	0.972818901	0.850533744
0.876243804	0.808487554	0.76139726	0.775280063	0.818401226	0.897959088	0.917492337	0.796109448
0.88517441	0.779526946	0.748600929	0.874481544	0.879287466	0.995660828	0.992301545	0.991292673
0.879782233	0.75888173	0.750240544	0.863087432	0.895200649	0.999713991	0.994542268	0.883112716
0.882143022	0.784216676	0.810236676	0.795775626	0.916596089	0.998972692	0.997331068	0.89598701
0.896697805	0.576431276	0.649061255	0.751624812	0.891939818	0.999905948	0.988919546	0.797481232
0.852863064	0.95146769	0.953753717	0.939218397	0.90125599	0.985274332	0.906595442	0.929976721
0.900768102	0.8307928	0.8307928	0.80900362	0.929736751	0.997558969	0.994994118	0.869947322
0.910961553	0.784210981	0.805008009	0.89879828	0.916073754	0.996017663	0.994298256	0.922504542
0.918851694	0.969715324	0.972934673	0.951919059	0.94362812	0.96736625	0.956577952	0.93301761
0.949462527	0.833464229	0.849572816	0.874777894	0.890881016	0.958416976	0.957688887	0.914701278
0.954950538	0.99872263	0.994957872	0.985956347	0.985311305	0.972627458	0.989521284	0.966790782
0.831117728	0.816824452	0.805811316	0.830785509	0.849983843	0.877150139	0.90537969	0.862043736
0.950946256	0.974310731	0.964045527	0.922563143	0.839386151	0.542033345	0.870091748	0.85790817
0.905713284	0.992340734	0.979530514	0.960326516	0.785260278	0.980918413	0.93937503	0.934676859
0.95847083	0.992834222	0.987825913	0.981912368	0.958817104	0.356406673	0.972127766	0.889881973
0.822714681	0.999406739	0.990709727	0.987603854	0.983276526	0.985433103	0.98585031	0.982717317
0.855248537	0.990191141	0.980204735	0.976823764	0.980164282	0.993951613	0.991908488	0.988186584
0.79141698	0.995871942	0.990876211	0.988606208	0.959305615	0.984164179	0.740373131	0.97731889
0.787144764	0.999378806	0.992265725	0.992352228	0.996467273	0.992786773	0.996004545	0.995641667
0.856958696	0.985386637	0.974557865	0.877775853	0.954294211	0.961789844	0.835717591	0.82564874
0.74991705	0.99544906	0.981832392	0.969862626	0.912113087	0.972246987	0.897550944	0.949818371
0.762152805	0.887855596	0.873178617	0.844683342	0.863826274	0.96184475	0.939900266	0.844933372
0.858619931	1	0.994212082	0.988115327	0.952366001	0.986372961	0.991402724	0.986492833
0.844028353	0.81200182	0.772763377	0.823244815	0.839247967	0.985556873	0.972955822	0.969833965
0.784989316	0.997111913	0.990897414	0.988824101	0.993811744	0.991973822	0.993863664	0.994165307
0.948753576	0.948753576	0.948753576	0.9203112	0.930560518	0.986003323	0.952829099	0.958707135
0.948753576	NA	0.486700297	0.621761576	0.825132818	1	0.985149005	0.798487565
0.926685162	0.486700297	NA	0.592021996	0.786042507	0.996634272	0.988929975	0.804833313
0.9203112	0.621761576	0.592021996	NA	0.835520886	0.995253409	0.966705961	0.837877124
0.930560518	0.825132818	0.786042507	0.96634272	0.995253409	0.989829402	0.891289913	0.890901821
0.986003323	1	0.996634272	0.988929975	0.966705961	NA	0.992001097	0.926949269
0.952829099	0.985149005	0.988929975	0.966705961	0.891289913	0.992001097	NA	0.895753786
0.958707135	0.798487565	0.804833313	0.837877124	0.890901821	0.926949269	0.895753786	NA
0.934554028	0.998653132	0.990229035	0.953086125	0.604750807	0.989095666	0.77816194	0.833622641
0.860411899	0.491698619	0.552478748	0.724291595	0.82116651	0.996404621	0.988857793	0.799857349
0.998321193	0.950500753	0.94077596	0.934936781	0.789820816	0.999242083	0.963950808	0.957670147
0.840074288	0.929886285	0.949934942	0.946654653	0.903237627	0.987274854	0.924307183	0.941980696
0.824399437	0.952791369	0.958580361	0.958303407	0.962004543	0.992184626	0.97794414	0.977615185
0.813742259	0.989475161	0.980950461	0.982511311	0.98561466	0.994906788	0.991461837	0.983923484
0.821240972	0.999133988	0.988483376	0.978697205	0.950831648	0.949014085	0.98481399	0.939306004
0.818795205	0.768796927	0.713785103	0.792537733	0.648282338	0.987538115	0.850827003	0.767562312
0.97518309	0.975487512	0.97140832	0.937283526	0.64569558	0.989078498	0.882707005	0.892528214
0.855451697	0.992918757	0.985739544	0.981411101	0.951171389	0.626653489	0.597325066	0.901374479
0.780161666	0.657044582	0.768940636	0.70801869	0.880108068	0.986108081	0.838593021	0.883261857
0.811329315	0.870530757	0.809423484	0.918918919	0.922468552	0.671067996	0.963351283	0.734477547
0.944581489	0.849963133	0.821535342	0.847860404	0.723557868	0.991457628	0.844411322	0.804455586
0.872643089	0.990397821	0.975279545	0.947935481	0.864147938	0.983650171	0.836358808	0.830431686
0.95388062	0.994024394	0.986645845	0.970955452	0.813834544	0.991913074	0.861974608	0.820389566
0.872326277	0.932747226	0.902903837	0.900422951	0.762398586	0.988131874	0.939687023	0.917151036
0.979773296	0.821084448	0.849767626	0.820145376	0.580916673	0.993318741	0.917212203	0.904290027
0.837288136	0.881904954	0.852281321	0.826869914	0.885301235	0.517229756	0.98484459	0.896044168
0.9128641	0.534293463	0.616620358	0.630831643	0.810438301	0.991168066	0.78131902	0.892589636
0.790206458	0.986476774	0.982491837	0.97039096	0.924211457	0.97973222	0.899519527	0.9564307

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UZ.P145	UZ.P146	UZ.P147	UZ.P148	UZ.P149	UZ.P150	UZ.P151	UZ.P152
0.914391775	0.887845234	0.958565485	0.95300409	0.95787772	0.995084563	0.982678303	0.84340572
0.988589757	0.67398983	0.962871578	0.962201018	0.97238252	0.992706728	0.994893774	0.829614554
0.933721923	0.995992096	0.996264274	0.979752635	0.990795228	0.99560213	0.983457557	0.974186894
0.956968044	0.938450296	0.975651145	0.973998584	0.977399177	0.995158278	0.989674596	0.929525223
0.998581858	0.772832747	0.968113144	0.973148024	0.977331734	0.995108289	0.994552627	0.801044041
0.896165232	0.831127188	0.941997509	0.923412909	0.948038168	0.985707533	0.958513661	0.82767526
0.970678733	0.953885316	0.979461451	0.976823212	0.976361601	0.99618471	0.987247202	0.9393477
0.850570456	0.846510139	0.936368904	0.94931007	0.949874895	0.988738794	0.953149663	0.843836272
0.994720285	0.681747097	0.956591871	0.960793676	0.965403971	0.991378922	0.996458784	0.823373074
0.882414912	0.932251024	0.879201392	0.90115778	0.929202764	0.962863811	0.825854365	0.88217202
0.826272128	0.811549567	0.926386628	0.922719204	0.940588019	0.977399914	0.940644587	0.759730659
0.92743642	0.916198722	0.962630743	0.967676503	0.973726316	0.993888911	0.977275679	0.911729081
0.945076409	0.909434366	0.969698898	0.95221367	0.962599774	0.992245615	0.97916117	0.897761591
0.991594408	0.941602213	0.963854383	0.985976787	0.986356896	0.996236801	0.988514838	0.947918997
0.992053587	0.949359391	0.980999596	0.974224915	0.981162246	0.992884415	0.975706083	0.96563493
0.947399446	0.924710776	0.948032163	0.969951746	0.949071493	0.996267091	0.974189335	0.905506808
0.924439723	0.996265158	0.990906954	0.804197564	0.987999303	0.994897314	0.964776086	0.924785128
0.868190216	0.979659262	0.980134942	0.943522381	0.967413787	0.985055351	0.94321986	0.930767126
0.867310909	0.780847145	0.884375227	0.866980166	0.913488548	0.941220477	0.934444653	0.782549399
0.905939935	0.899250267	0.956923951	0.968795514	0.971726764	0.984583227	0.985601152	0.921492966
0.807331228	0.987616325	0.909092148	0.954245682	0.97747317	0.951145572	0.84723415	0.936419663
0.999341806	0.846297866	0.963510444	0.97419545	0.972292669	0.994096438	0.999363494	0.884274979
0.99743515	0.996552783	0.998730872	0.980164372	0.996857065	0.977366703	0.968218875	0.995995014
0.990518846	0.991891956	0.989572929	0.975026806	0.989677595	0.934461341	0.956777459	0.982657662
0.996572082	0.967767857	0.987655458	0.951348932	0.982612447	0.933541607	0.958281702	0.948935608
0.895091832	0.876077888	0.950852322	0.914771805	0.935433518	0.990602011	0.970672776	0.868097543
0.996418378	0.796952878	0.979997224	0.970616793	0.981012022	0.996841467	0.993899619	0.866222698
0.941349891	0.836083307	0.955626485	0.904942995	0.94831851	0.987782844	0.976932186	0.837973562
0.935262961	0.909746341	0.970283834	0.966982798	0.965050001	0.995907262	0.98205574	0.875441388
0.853785961	0.879775157	0.93818303	0.941409041	0.944649346	0.991162266	0.972243481	0.80411176
0.930450846	0.839871744	0.960135876	0.951308151	0.97128945	0.993492599	0.976884486	0.802660537
0.944268225	0.999910588	1	0.904628224	0.996270612	0.997870109	0.984557213	0.984800386
0.908156301	0.705968649	0.943025998	0.924214777	0.943719714	0.988545644	0.965358544	0.670554277
0.945697007	0.834670635	0.964025889	0.946252902	0.969361899	0.992554205	0.976917934	0.844306016
0.974927135	0.672678404	0.944543624	0.94212910	0.951991496	0.985517179	0.990346983	0.692365854
0.98637096	0.878590481	0.964224648	0.837470999	0.97496472	0.989951795	0.9916547	0.916167508
0.998681292	0.718073217	0.970952345	0.98549657	0.968774031	0.99557783	0.998735927	0.839538824
0.898155688	0.904388938	0.952715423	0.939467411	0.910140844	0.992990492	0.977476502	0.849032246
0.974940439	0.855648119	0.962794245	0.971109259	0.977523868	0.993482503	0.990856825	0.875150755
0.895793801	0.827803988	0.948243993	0.918815503	0.960083886	0.994237688	0.976931637	0.780003817
0.998259102	0.787076147	0.969837887	0.965468338	0.977784416	0.994556804	0.99318543	0.87789349
0.999635374	0.812555404	0.968822825	0.974390083	0.9693942	0.994778881	0.998632518	0.837806464
0.996199034	0.815347722	0.973750096	0.988138034	0.981750588	0.993490543	0.998525449	0.895306443
0.996560437	0.693217742	0.972326322	0.968106799	0.970857703	0.992450262	0.999417318	0.81644625
0.835054398	0.941470434	0.938098188	0.853446229	0.944207467	0.936937596	0.9270431	0.849137267
0.998044358	0.840282263	0.976543773	0.982923434	0.977265442	0.996700214	0.996936466	0.907087997
0.997993891	0.841170031	0.976289704	0.977100729	0.973556595	0.996254171	0.994608132	0.892115971
0.930680483	0.963968311	0.966662531	0.888287592	0.940572052	0.931863727	0.836366124	0.908416193
0.96271992	0.874278792	0.960229096	0.957652399	0.960212147	0.993106184	0.973292631	0.872269756
0.980141919	0.996725677	0.995813734	0.953119678	0.984461428	0.96100832	0.815614773	0.977670477
0.91015068	0.841582735	0.955911804	0.965573981	0.960353261	0.992636514	0.980099799	0.838270899
0.79009956	0.972827386	0.66234661	0.964899759	0.987040175	0.983274278	0.919125831	0.919165829
0.795338894	0.968050117	0.788209256	0.911883718	0.955010924	0.867137067	0.777624655	0.837928762
0.921531356	0.990369054	0.958190319	0.955193483	0.973484799	0.965713374	0.868623653	0.951468866
0.977971014	0.91251636	0.992696867	0.742233794	0.845730674	0.721713442	0.703206692	0.928728308
0.981012769	0.908496331	0.982056028	0.76810415	0.856737993	0.7800263	0.772802985	0.92791411
0.840187228	0.918454803	0.995967996	0.776734948	0.857347163	0.782473999	0.780682887	0.906210641
0.993265655	0.894437593	0.998191954	0.689304548	0.825727821	0.440730086	0.486756268	0.934552136
0.803244443	0.939783891	0.980657023	0.910861813	0.940851112	0.876928927	0.834566241	0.89876553
0.775088874	0.896572414	0.946758546	0.777677316	0.873084701	0.583022987	0.516908213	0.864347942
0.933561482	0.974296868	0.9178027	0.795118664	0.392427962	0.825826614	0.773520961	0.766637143
0.950765921	0.924580058	0.985724505	0.790262803	0.874302881	0.799341163	0.766244143	0.937209431
0.942180279	0.763570341	0.919783478	0.79302818	0.851175254	0.826316356	0.850881068	0.850881068
0.988750463	0.894149615	0.996313403	0.745935771	0.830451	0.462661738	0.508988263	0.930316873
0.934554028	0.860411899	0.998321193	0.840074288	0.824399437	0.813742259	0.821240972	0.818795205
0.998653132	0.491698619	0.950500753	0.929886285	0.952791369	0.989475161	0.999133988	0.768796927
0.990229035	0.552478748	0.940775896	0.949934942	0.958580361	0.980950461	0.988483376	0.713785103
0.953086125	0.724291595	0.934936781	0.946654653	0.958303407	0.982511311	0.978697205	0.792537733
0.604750807	0.82116651	0.789820816	0.903237627	0.962004543	0.98561466	0.950831648	0.648282338
0.989095666	0.996404621	0.999242083	0.987274854	0.992184626	0.994906788	0.949014085	0.987538115
0.77816194	0.988857393	0.963950808	0.924307183	0.97794414	0.991461837	0.98481399	0.850827003
0.833622641	0.799857349	0.957670147	0.941980696	0.977615185	0.983923484	0.939360004	0.767562312
0.997752899	0.997752899	0.838600221	0.873724427	0.985848686	0.972382111	0.919792166	0.707335063
0.997752899	NA	0.940387591	0.940387591	0.850974167	0.892153957	0.874311845	0.69185162
0.838600221	0.940387591	NA	0.95446915	0.941384172	0.818081728	0.983740954	0.937810408
0.873724427	0.850974167	0.95446915	NA	0.818081728	0.776734746	0.766898812	0.822658021
0.985848686	0.892153957	0.941384172	0.818081728	NA	0.866317619	0.866057468	0.883360639
0.972382111	0.874311845	0.983740954	0.776734746	0.866317619	NA	0.390253725	0.914513693
0.919792166	0.893394842	0.937810408	0.766898812	0.866057468	0.914513693	0.916500848	0.659915589
0.707335063	0.69185162	0.876266873	0.822658021	0.883360639	0.967679505	0.929556533	0.915655594
0.600079055	0.964252472	0.866666667	0.8217725	0.933186376	0.883544007	0.817497125	0.915655594
0.877969887	0.933948912	0.979644463	0.865653061	0.902580125	0.81589352	0.820992313	0.738322341
0.870385692	0.648446206	0.93805297	0.834283224	0.843138338	0.854323725	0.798982458	0.749244713
0.954544753	0.727921597	0.996138456	0.867740739	0.907914365	0.978699786	0.951790867	0.781977972
0.685003374	0.873615101	0.869267382	0.90379741	0.957998266	0.825596002	0.771744408	0.778530644
0.700687094	0.937311166	0.863859667	0.815532174	0.907703947	0.96332981	0.954754022	0.874595279
0.744259493	0.991556393	0.846126857	0.922094	0.985938847	0.886888348	0.7912665	0.813205175
0.733540759	0.915488952	0.786999071	0.844209935	0.935510656	0.988741575	0.966813863	0.771323217
0.732913655	0.850164443	0.685219849	0.925068843	0.970916156	0.9558727	0.889906309	0.820229532
0.979150579	0.836275466	0.932085195	0.948850313	0.938048098	0.986952955	0.994868384	0.794543932
0.896847706	0.639830847	0.937719308	0.954241056	0.944492978	0.986952955	0.915997681	0.868622081
0.772819572	0.897297518	0.969666372	0.816564036	0.896182117	0.5643369		

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UZ.P153	UZ.P117	UZ.P154	UZ.P155	UZ.P156	UZ.P157	UZ.P158	UZ.P159
0.920245822	0.81916125	0.886782898	0.814727826	0.708681255	0.934950128	0.938759946	0.945861233
0.974980787	0.990982251	0.800803292	0.902935848	0.902935848	0.986742977	0.990589226	0.939214997
0.987269958	0.735574147	0.884115808	0.967265716	0.967740523	0.977193054	0.962171133	0.986295356
0.96380675	0.962499393	0.938430424	0.965359242	0.93211972	0.973652447	0.971253597	0.964242773
0.98738643	0.991646027	0.885744606	0.836718141	0.689865377	0.99361078	0.994879967	0.95751493
0.898854046	0.750873284	0.88153547	0.684238497	0.759251915	0.89580239	0.926465215	0.886371586
0.976117258	0.970496709	0.965347013	0.958982137	0.906531114	0.957361557	0.709729327	0.966120582
0.914248601	0.781193982	0.808497693	0.777410104	0.618784734	0.862702007	0.887894684	0.918799015
0.979709321	0.989881499	0.826688173	0.899158223	0.561261054	0.987303329	0.991352478	0.935936516
0.853201635	0.895882916	0.905709453	0.882863264	0.887720969	0.846588808	0.938482151	0.814481545
0.940576865	0.648989255	0.634928611	0.793795926	0.804015512	0.835503394	0.847237723	0.883746285
0.957102988	0.732339488	0.888845616	0.918612758	0.889405423	0.956974519	0.957192991	0.941769643
0.947311564	0.797138933	0.921186283	0.814512214	0.879160046	0.942971583	0.956665682	0.943074089
0.990356055	0.872948385	0.961555969	0.868179747	0.965705974	0.988348008	0.990033212	0.983990819
0.97484385	0.98009725	0.967266933	0.980638213	0.979660233	0.979265427	0.990716909	0.991136942
0.958701263	0.837599614	0.953654776	0.831048688	0.850729419	0.950449782	0.960429283	0.972349182
0.962592007	0.910235367	0.942386758	0.929889652	0.950000705	0.96204433	0.957985324	0.976460527
0.955301765	0.447821009	0.769142956	0.922884524	0.940669252	0.929108878	0.932099007	0.956602218
0.836939613	0.914497192	0.831766052	0.912080825	0.745674952	0.822998397	0.932157115	0.797653665
0.971804824	0.74170171	0.838711897	0.966995695	0.511156996	0.943076091	0.94097364	0.98258717
0.965006729	0.5880053	0.739929296	0.61427078	0.933020466	0.906229778	0.912681202	0.971083997
0.984360996	0.993515693	0.898715152	0.950999499	0.942517149	0.993028444	0.995039626	0.950839504
0.995760766	0.995429183	0.996714633	0.992284189	0.997948338	0.992723881	0.998583369	0.993544304
0.986399352	0.990419999	0.986759308	0.987990762	0.989082603	0.971367482	0.992421979	0.96950899
0.974832542	0.984632272	0.967036643	0.976641414	0.987498183	0.965001884	0.988723514	0.973694306
0.924938284	0.920063986	0.892495085	0.901041105	0.616783262	0.887644893	0.879396665	0.912409587
0.990689547	0.991365054	0.885079909	0.904151862	0.823151187	0.992821561	0.995401315	0.972937162
0.933431526	0.961139042	0.837761594	0.915657828	0.936529635	0.936287587	0.959399057	0.917849618
0.965244616	0.664978595	0.876306103	0.835439463	0.746909895	0.946949761	0.870538129	0.965944327
0.860322315	0.900232315	0.896959509	0.886955711	0.739690086	0.890337409	0.8456558	0.921320534
0.931647511	0.886804413	0.86169292	0.821152227	0.671013644	0.949066268	0.950764887	0.946825833
0.995983533	0.805079622	0.940850365	0.854808147	0.959342841	0.964659466	0.956073037	0.997392584
0.911930325	0.926374371	0.819229831	0.797791441	0.794374099	0.937192752	0.949279751	0.879817373
0.938817905	0.800674049	0.908415624	0.782488272	0.883438309	0.946937339	0.960443708	0.932389647
0.964273344	0.985145128	0.802182678	0.81749874	0.914282689	0.96841961	0.978425027	0.903589419
0.980939518	0.990174479	0.943728439	0.961349671	0.937452439	0.979267395	0.985318684	0.956071225
0.988020352	0.99487636	0.845406103	0.847176568	0.707050368	0.993810696	0.99487953	0.960723701
0.88494558	0.910946967	0.942752489	0.893340773	0.659517862	0.91115819	0.88787288	0.931813614
0.972655873	0.987550744	0.919412678	0.944661131	0.695631614	0.975271287	0.984640485	0.956348227
0.884104356	0.882174145	0.911809651	0.790619293	0.733294861	0.922578456	0.939106883	0.947538111
0.98832739	0.99054116	0.898806962	0.872993555	0.727662609	0.993165136	0.994890143	0.959571876
0.985531287	0.994441058	0.885387105	0.87506379	0.672356172	0.993169921	0.995675352	0.957738185
0.987184908	0.995297329	0.897853236	0.932324704	0.807849075	0.99223995	0.994247951	0.975393158
0.988552192	0.995657645	0.826017212	0.874693678	0.707056895	0.991875847	0.994559249	0.96215109
0.844947968	0.900942005	0.858675845	0.896660639	0.887770288	0.796224684	0.910777495	0.805419313
0.988842932	0.993279733	0.899238562	0.907682493	0.722910182	0.99407139	0.995643883	0.975557312
0.988997966	0.992233126	0.917756578	0.905548078	0.745194129	0.994340996	0.995503871	0.968248463
0.893129343	0.933583557	0.931463021	0.925242572	0.942882789	0.859199889	0.968975632	0.846943618
0.95061784	0.937097631	0.900224939	0.905963088	0.85080765	0.955195011	0.972411459	0.956330395
0.978340941	0.957675822	0.990382346	0.949301431	0.983185531	0.949152542	0.990476048	0.940180704
0.922438385	0.830804825	0.861637331	0.824534732	0.655171192	0.926899962	0.908764509	0.937324222
0.926725776	0.54018191	0.848004047	0.673654815	0.883666807	0.889954821	0.827890801	0.857332215
0.840902954	0.931304105	0.915638963	0.926522077	0.888372366	0.726190871	0.84129093	0.547845232
0.938600496	0.523787348	0.989600895	0.565826074	0.94252538	0.912831152	0.956483016	0.87945688
0.977420381	0.867649804	0.847160531	0.888228448	0.983186794	0.888090432	0.986447265	0.926891956
0.966645788	0.881429573	0.860087563	0.906998659	0.980618883	0.896926799	0.983988321	0.939659418
0.971313894	0.546590142	0.595180996	0.860233066	0.948379542	0.87865966	0.933248112	0.937002531
0.991595893	0.861918416	0.81838715	0.875630163	0.99449962	0.874916438	0.996609531	0.918631965
0.982739592	0.803688454	0.757569423	0.855403015	0.861318091	0.755846624	0.848168407	0.955008986
0.905004327	0.748404648	0.672694787	0.803273398	0.873883849	0.743113606	0.882512414	0.815004294
0.916943145	0.847680101	0.716520651	0.825508857	0.90248101	0.846363934	0.960994918	0.916237166
1	0.87791717	0.880530397	0.901460509	0.99898547	0.926473544	0.994382022	0.969744206
0.937824515	0.873622445	0.803305234	0.896302922	0.434734886	0.864278703	0.957016777	0.930966021
0.984478165	0.860933679	0.8170908	0.872210428	0.990866051	0.871968191	0.99390302	0.920726447
0.97518309	0.855451697	0.780161666	0.811329315	0.944581489	0.872643089	0.95388062	0.872326277
0.975487512	0.992918757	0.657044582	0.870530375	0.849963133	0.990397821	0.994024394	0.932747226
0.97140832	0.985739544	0.768940636	0.809423484	0.821535342	0.975279545	0.986645845	0.902903837
0.937283526	0.981411101	0.700801869	0.918918919	0.847860404	0.947935481	0.970955452	0.900422951
0.64569558	0.951171389	0.880108068	0.922468552	0.723557868	0.864147938	0.813834544	0.762398586
0.989078498	0.626653489	0.986108081	0.671067996	0.991457628	0.983560171	0.991913074	0.988131874
0.882707005	0.597325066	0.838593021	0.963351283	0.844411322	0.836358808	0.861974808	0.939687023
0.892528214	0.901374479	0.883261657	0.734477547	0.804455586	0.830431686	0.820389566	0.917151036
0.600079055	0.877696687	0.870385692	0.954544753	0.685003374	0.700687094	0.744259493	0.733540759
0.964252472	0.933948912	0.648446206	0.727921597	0.873615101	0.937311166	0.991556393	0.915488952
0.866666667	0.979644463	0.93805297	0.996138456	0.869267382	0.883859667	0.846126857	0.786999071
0.8217725	0.865653061	0.834283224	0.867740739	0.90379741	0.815532174	0.922094	0.844209353
0.933186376	0.902580125	0.843138338	0.907914365	0.957998266	0.907703947	0.985938847	0.935510656
0.967679505	0.883544007	0.81589352	0.854342375	0.978699786	0.825896002	0.98332981	0.886888348
0.928556533	0.817497125	0.820992313	0.798982458	0.951790867	0.771744408	0.954754022	0.7912665
0.659915589	0.915655594	0.738322341	0.749244713	0.781977972	0.778530644	0.874595279	0.813205175
	0.963721724	0.954930073	0.954930073	0.973779078	0.774475667	0.793801074	0.869554582
	0.714370939	0.714370939	0.542177817	0.950269944	0.903184601	0.936333938	0.754448314
			0.746828796	0.917433695	0.889031174	0.931334108	0.8882674
				0.964186072	0.901426619	0.965735069	0.88129846
					0.760138727	0.733663653	0.86339349
						0.776889649	0.748330504
							0.833555036

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UZ.P160	UZ.P161	UZ.P162	UZ.P163	UZ.P164	UZ.P119	UZ.P120	UZ.P121
0.929255806	0.776240846	0.852040624	0.966275938	0.946404611	0.928479589	0.914591585	0.97343785
0.853428545	0.876152596	0.69656997	0.984572044	0.915182664	0.983513068	0.930054615	0.984320959
0.987844539	0.980181606	0.830212066	0.937572361	0.981010674	0.980662867	0.801473003	0.992227216
0.957566886	0.957060834	0.917729794	0.965612626	0.954561165	0.972561366	0.944605981	0.986170609
0.894349208	0.891869624	0.783947657	0.995320488	0.945406259	0.995724094	0.938495392	0.995676018
0.902745989	0.642341964	0.7576269	0.95233707	0.908907576	0.873264076	0.854669677	0.966747815
0.961093263	0.940272602	0.951546981	0.988044456	0.976055863	0.943349848	0.873461376	0.989411126
0.90261767	0.745040513	0.691434393	0.915904591	0.897215481	0.841653344	0.841653344	0.972854242
0.915771658	0.869756512	0.706177063	0.990680253	0.928480374	0.990324189	0.919530817	0.991473225
0.912920165	0.825635977	0.923251507	0.900684724	0.838949826	0.817562968	0.914180629	0.908074112
0.891500955	0.757715846	0.572103418	0.860018114	0.8663112	0.769276334	0.486986138	0.950884332
0.945561696	0.900614298	0.799585483	0.952766857	0.958091367	0.954795585	0.802214301	0.973934843
0.937747431	0.729097879	0.876678633	0.970554504	0.946734285	0.931741743	0.922048173	0.984088855
0.963432891	0.819577775	0.96033505	0.996485166	0.983316869	0.988436683	0.963926854	0.998025838
0.981758805	0.969237978	0.96221449	0.991933648	0.953929026	0.954336358	0.982132301	0.988531754
0.943303748	0.799608375	0.874193673	0.970668543	0.961461785	0.953406506	0.94197417	0.98056444
0.983998163	0.944823019	0.948726252	0.91864265	0.950309356	0.9438285	0.944427645	0.986825826
0.97247601	0.939160397	0.700196413	0.837052721	0.940495757	0.922393313	0.575378984	0.951052957
0.891627569	0.808691534	0.749857485	0.792330854	0.860091481	0.769104074	0.798750813	0.815721582
0.948141726	0.92310817	0.669191009	0.915177482	0.967175007	0.94601775	0.712232566	0.981808159
0.978499569	0.646888503	0.812554315	0.682062503	0.939854574	0.90384741	0.758822573	0.961450207
0.936140101	0.895298125	0.868397468	0.994576378	0.940668985	0.995797867	0.937620242	0.95090905
0.99862763	0.993135436	0.995685097	0.978027171	0.98676957	0.947619048	0.996233008	0.984817398
0.996386827	0.987968162	0.988384862	0.948003279	0.972295199	0.973309805	0.987741092	0.934923201
0.989942605	0.977577831	0.969069884	0.942998534	0.910073794	0.9115424	0.981167319	0.951919137
0.927153599	0.865638487	0.801736832	0.950031791	0.944031051	0.867434394	0.867226019	0.961612373
0.898953778	0.934941373	0.823717779	0.993638982	0.959803377	0.994281436	0.962607381	0.994060107
0.900356577	0.932483075	0.860316383	0.961577109	0.919022445	0.905803239	0.927842747	0.965505406
0.922666596	0.770622292	0.803074501	0.965927089	0.962869554	0.939742374	0.733510381	0.986611921
0.873141664	0.844920004	0.820672264	0.954368037	0.915545609	0.862464767	0.815990577	0.953438301
0.890764647	0.830020117	0.806581699	0.966224311	0.924272442	0.955281461	0.918278105	0.982101677
0.994222785	0.844826134	0.945120031	0.964941121	0.99389686	0.965966197	0.917068874	0.997379218
0.872635298	0.824912733	0.691550397	0.940519462	0.878324214	0.919442343	0.886105556	0.95708702
0.918054701	0.719555272	0.855425692	0.974381368	0.948888382	0.945132207	0.936704365	0.979079324
0.845238529	0.851519823	0.756332489	0.976823516	0.906345153	0.97828146	0.901455583	0.983146936
0.956148615	0.897558605	0.91862671	0.992907485	0.963086574	0.983462779	0.930244508	0.991214308
0.897760768	0.910245038	0.74524178	0.993377656	0.950856121	0.996287943	0.946228908	0.996080975
0.897979817	0.850298775	0.860439443	0.966624806	0.946007379	0.885841833	0.861847209	0.964674023
0.911137938	0.913441117	0.842181793	0.992710531	0.93542397	0.981962576	0.931933226	0.990896002
0.85600796	0.814284953	0.86746132	0.991395881	0.946729751	0.922153687	0.926266897	0.971388286
0.935192716	0.917260617	0.811538796	0.993201726	0.953501937	0.995262254	0.952034582	0.99504727
0.929044287	0.916103874	0.79498648	0.994780364	0.95315778	0.996129519	0.948668472	0.994301193
0.941336254	0.903052765	0.787665333	0.993963809	0.95679945	0.994100774	0.950020997	0.993462049
0.864919601	0.914679283	0.735235693	0.992937601	0.934723088	0.994005089	0.946015101	0.994375944
0.93888151	0.937847105	0.892674617	0.707052854	0.835977952	0.778064421	0.875382865	0.728276455
0.944699815	0.922999397	0.839296392	0.996163108	0.954111865	0.99550152	0.952722965	0.996858583
0.944879764	0.931149448	0.844925952	0.99417941	0.959986079	0.996177913	0.962398552	0.99642729
0.95904953	0.916870169	0.950310104	0.876561908	0.881099072	0.769584529	0.936930592	0.838433293
0.921586203	0.895606757	0.8328684	0.975956506	0.930705123	0.948979226	0.939407966	0.977616204
0.993387215	0.944242695	0.993062126	0.937431854	0.973847609	0.84403755	0.978998304	0.920067211
0.920150353	0.772050678	0.772870751	0.954279304	0.93729858	0.913399469	0.873759131	0.982118021
0.756744289	0.552448544	0.842020561	0.888381532	0.9383921	0.932254743	0.819748319	0.952346894
0.883507892	0.931088222	0.954182662	0.741624011	0.735365889	0.822600515	0.924560746	0.880744063
0.972060461	0.352444753	0.993923319	0.947799682	0.933160141	0.917164164	0.968562939	0.941271139
0.990142011	0.958172927	0.989998889	0.794789082	0.440995663	0.763197631	0.970391029	0.969303977
0.984763467	0.963171931	0.985412295	0.845100173	0.520324458	0.807889131	0.972161912	0.967890074
0.982192056	0.954319255	0.750934854	0.634133746	0.505301982	0.782005471	0.640829713	0.953783813
0.996937244	0.965790726	0.997763627	0.691778367	0.522450374	0.697188482	0.984995252	0.984555985
0.974826564	0.897713476	0.859755933	0.70685032	0.817584945	0.695273632	0.690367622	0.970098624
0.954723663	0.922205037	0.868376332	0.381300144	0.693655779	0.687661421	0.818856741	0.91711348
0.917952975	0.830755674	0.855745419	0.840560708	0.691146974	0.778006286	0.862085687	0.960371259
0.988553563	0.966195463	0.999745082	0.872381911	0.763135267	0.808083492	0.991528674	0.997022016
0.920524263	0.854745504	0.854745504	0.81369155	0.660051672	0.817082568	0.87806958	0.977609747
0.994349072	0.962401141	0.993944265	0.694213751	0.68323119	0.683920115	0.980727502	0.96882602
0.979773296	0.83728916	0.9128641	0.790206458	0.775071747	0.785118734	0.894372925	0.979759572
0.821084448	0.881904954	0.534293463	0.986476774	0.901332176	0.996128652	0.92067687	0.991081788
0.849767626	0.852281321	0.616620358	0.982491837	0.884319546	0.985807053	0.899266119	0.98434992
0.820145376	0.826869914	0.630831643	0.97039096	0.878664495	0.962924358	0.891162726	0.973644279
0.580916673	0.885301235	0.810438301	0.924211457	0.873691161	0.888448547	0.880971555	0.944261199
0.993318741	0.517229756	0.991168066	0.97973222	0.983024612	0.982816536	0.986451869	0.998797471
0.917212203	0.98484459	0.78131902	0.899519527	0.950986469	0.816030408	0.648231647	0.929955271
0.904290027	0.896044168	0.892589636	0.956430793	0.908490278	0.819282528	0.821054197	0.958711545
0.732913655	0.979150579	0.896847706	0.772819572	0.888494678	0.721220527	0.814466138	0.844115438
0.850164443	0.836275466	0.639830847	0.897297518	0.800110905	0.909011673	0.895909816	0.985703885
0.685219849	0.932085195	0.937719308	0.969666372	0.92575166	0.934503702	0.927430753	0.912439985
0.925068843	0.948850313	0.954241056	0.816564036	0.686765137	0.705224793	0.949914269	0.857596429
0.970916156	0.938048098	0.944492978	0.896182117	0.809254163	0.854198575	0.945779609	0.965743782
0.988741575	0.95558727	0.986952955	0.564336918	0.711580914	0.70040954	0.969233899	0.889813714
0.966813863	0.88906309	0.994868384	0.615997681	0.66470723	0.684745908	0.968120845	0.925570463
0.771323217	0.820229532	0.794543932	0.868622081	0.793254786	0.778767723	0.842410335	0.898561054
0.779443237	0.953972118	0.964226098	0.895503556	0.850385039	0.786268469	0.947621389	0.823535053
0.97469689	0.482261515	0.73212556	0.791598651	0.854553532	0.853697724	0.6189573	0.953320528
0.838221853	0.854233056	0.467447504	0.715860876	0.717281726	0.827117044	0.682348248	0.984975458
0.922461227	0.46016136	0.894984507	0.814350973	0.805108835	0.874220053	0.900975646	0.985413428
0.823331727	0.904809575	0.779096164	0.910675612	0.925584954	0.756188512	0.716554492	0.917390051
0.892251599	0.935967618	0.959112814	0.755900553	0.783223188	0.539414894	0.804642717	0.929196363
0.845558285	0.97805706	0.941418983	0.891063684	0.944115793	0.792900077	0.644186638	0.934952259
0.851085969	0.89008651	0.940076498	0.804784261	0.772331061	0.768335419	0.919578897	0.780014914
NA	0.921899028	0.857278227	0.960519227	0.918969424	0.915237284	0.92020293	0.949570612
0.857278227	0.840423068	NA	0.934712762	0.876864216	0.86562297	0.92020293	0.949570612
0.960519227	0.934712762	0.876864216	NA	0.736600306	NA	0.846080448	0.984085632
0.918969424	0.867721877	0.886562297	0.97471547	NA			

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UZ.P122	UZ.P123
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0,967674029	0,867771677
0,991113784	0,957247984
0,969478612	0,845709629
0,98882693	0,891742726
0,940575131	0,841714514
0,962039299	0,792565026
0,988489413	0,927725463
0,986362863	0,907050388
0,99459404	0,966603904
0,978985562	0,956307296
0,981642874	0,884206562
0,983755155	0,951756716
0,963650381	0,911349986
0,903006718	0,677575758
0,979220989	0,911441488
0,937300413	0,90113598
0,993592153	0,927990509
0,938262195	0,994175432
0,956646961	0,985615251
0,927539025	0,957961733
0,98178401	0,878455871
0,993787055	0,949068466
0,975904253	0,872652783
0,991253567	0,923862882
0,981829767	0,838606404
0,983886097	0,884562878
0,995546413	0,982587503
0,977051431	0,848055736
0,986519656	0,907886049
0,981085047	0,876942688
0,989279956	0,942667405
0,993573045	0,924418015
0,986705836	0,879060626
0,992185267	0,940129138
0,988785379	0,859541745
0,993652741	0,933772018
0,996498375	0,934485279
0,994377132	0,955312275
0,994605457	0,930962438
0,90168514	0,774127182
0,994726005	0,943567635
0,994395818	0,95001507
0,897761085	0,879553757
0,982007074	0,89465186
0,912172759	0,958736397
0,984969448	0,896266393
0,974306437	0,918469571
0,914953998	0,782875871
0,97378058	0,967448916
0,292387723	0,943234937
0,437007326	0,943171643
0,434944864	0,903876991
0,326688817	0,94566896
0,888733659	0,914468681
0,690380596	0,821568339
0,774301532	0,749964594
0,673113324	0,96119899
0,66229501	0,829622563
0,551822176	0,948616195
0,788476493	0,855813153
0,993432349	0,864080918
0,980603638	0,862637927
0,96945703	0,851047227
0,966522636	0,752785988
0,986701632	0,983883317
0,970334984	0,828128428
0,971857581	0,876982352
0,941840545	0,715605601
0,896365707	0,805827385
0,966279003	0,827896712
0,681204284	0,81975452
0,83582644	0,884670994
0,6170724	0,946383409
0,596359105	0,917439932
0,898103359	0,592718966
0,960482708	0,731244814
0,854254127	0,913713671
0,825771761	0,724158001
0,875656221	0,855196516
0,974506253	0,755889289
0,846846295	0,745451981
0,973886637	0,856871108
0,896150999	0,820408606
0,97460983	0,785880019
0,958172635	0,848482581
0,984785805	0,801240056
0,752501905	0,839166751
0,365668152	0,85817428
0,665505464	0,720727161
0,957662891	0,824904745
0,930408848	0,816397229
0,902471805 NA	0,902471805

Supplementary File 4

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	UZ.P066	UZ.P067	UZ.P068	UZ.P069	UZ.P070	UZ.P071	UZ.P072	UZ.P073
UZ.P066	NA							
UZ.P067	0.81884058	NA						
UZ.P068	0.79545454	0.90625	NA					
UZ.P069	0.616071429	0.737704918	0.756410256	NA				
UZ.P070	0.816793893	0.533333333	0.872093023	0.74137931	NA			
UZ.P071	0.626086957	0.792307692	0.795180723	0.657657658	0.758333333	NA		
UZ.P072	0.692307692	0.784	0.782051282	0.702702703	0.809917355	0.663636364	NA	
UZ.P073	0.654205607	0.837398374	0.788732394	0.689320388	0.805309735	0.591836735	0.642857143	NA
UZ.P074	0.831858407	0.621052632	0.825396825	0.794117647	0.602272727	0.8	0.825242718	0.857142857
UZ.P056	0.712962963	0.810344828	0.791044776	0.712871287	0.818181818	0.656565657	0.693877551	0.677777778
UZ.P075	0.723577236	0.7	0.821428571	0.642201835	0.701754386	0.709401709	0.730434783	0.719626168
UZ.P076	0.628865979	0.810810811	0.75	0.694736842	0.830188679	0.677083333	0.688172043	0.62195122
UZ.P077	0.625	0.816666667	0.75	0.673287327	0.824561404	0.63	0.639175258	0.677419355
UZ.P079	0.834782609	0.757009346	0.882352941	0.820754717	0.75	0.814814815	0.861111111	0.824742268
UZ.P080	0.744444444	0.857142857	0.720930233	0.731707317	0.804597701	0.770114943	0.8	0.708333333
UZ.P081	0.631067961	0.861788618	0.779411765	0.742857143	0.842105263	0.65	0.631578947	0.593023256
UZ.P083	0.68	0.860869565	0.724137931	0.71875	0.828571429	0.701030928	0.726315789	0.727272727
UZ.P084	0.76146789	0.824561404	0.737704918	0.714285714	0.788461538	0.722772277	0.708333333	0.662790689
UZ.P085	0.706422018	0.842975207	0.779411765	0.705882353	0.831858407	0.738317757	0.7	0.698924731
UZ.P057	0.717171717	0.864864865	0.745454545	0.744680851	0.843137255	0.75257732	0.739130435	0.770114943
UZ.P086	0.806818182	0.905263158	0.694444444	0.8	0.870588235	0.807228916	0.825	0.802816901
UZ.P087	0.862068966	0.649484536	0.911764706	0.77	0.648351648	0.844036697	0.858490566	0.88
UZ.P089	0.887640449	0.923076923	0.633333333	0.846153846	0.888888889	0.879518072	0.857142857	0.855072464
UZ.P091	0.829545455	0.903225806	0.783783784	0.825	0.880952381	0.872093023	0.805194805	0.797101449
UZ.P092	0.787878788	0.855769231	0.76	0.78021978	0.793478261	0.747252747	0.761363636	0.765432099
UZ.P093	0.678999083	0.734513274	0.71641791	0.59375	0.714285714	0.685714286	0.683168317	0.694736842
UZ.P094	0.792349727	0.543046358	0.883561644	0.74556213	0.623376623	0.778409091	0.779069767	0.781818182
UZ.P095	0.743421053	0.8125	0.853448276	0.77027027	0.802631579	0.75	0.767123288	0.760869565
UZ.P096	0.659574468	0.820754717	0.740740741	0.685393258	0.818181818	0.709677419	0.736263736	0.641025641
UZ.P097	0.651376147	0.822580645	0.780821918	0.633663366	0.789473684	0.603960396	0.67961165	0.556818182
UZ.P058	0.620689565	0.728	0.8	0.63963964	0.731092437	0.634959614	0.660869565	0.72495726
UZ.P098	0.929411765	0.953488372	0.777777778	0.891891892	0.962025316	0.9375	0.918918919	0.940298507
UZ.P099	0.698412698	0.606837607	0.76744186	0.616071429	0.66393103	0.64957265	0.692307692	0.678899083
UZ.P100	0.700854701	0.792	0.763157895	0.756521739	0.808333333	0.684684685	0.763157895	0.730769231
UZ.P101	0.787671233	0.545454545	0.866666667	0.727272727	0.564102564	0.751824818	0.751824818	0.782945736
UZ.P102	0.801980198	0.823529412	0.788461538	0.727272727	0.769230769	0.736263736	0.764044444	0.797619048
UZ.P103	0.8125	0.610294118	0.918032787	0.716312057	0.607692308	0.805194805	0.837662338	0.819444444
UZ.P104	0.705357143	0.809917355	0.791666667	0.740740741	0.807017544	0.663461538	0.735849057	0.697916667
UZ.P105	0.778685825	0.642201835	0.87654321	0.75	0.6	0.777777778	0.767857143	0.759615385
UZ.P106	0.704761905	0.805309735	0.741935484	0.663157895	0.79047619	0.686868687	0.670212766	0.666666667
UZ.P107	0.813333333	0.638461538	0.857142857	0.757352941	0.637096774	0.797202797	0.807142857	0.846715328
UZ.P108	0.849206349	0.654205607	0.898734177	0.763636364	0.568421053	0.801724138	0.86440678	0.831775701
UZ.P110	0.837837838	0.623655914	0.873015873	0.775510204	0.695652174	0.794117647	0.757894737	0.815217391
UZ.P111	0.867816092	0.537313433	0.938931298	0.839506173	0.607407407	0.869822485	0.858895706	0.872611465
UZ.P112	0.774774775	0.826086957	0.721311475	0.704081633	0.778846154	0.737864078	0.737373737	0.739130435
UZ.P113	0.824742268	0.77173913	0.782608696	0.75	0.75	0.786516854	0.816091954	0.794871795
UZ.P114	0.810606061	0.655172414	0.821428571	0.786885246	0.654545455	0.782258065	0.79338843	0.838983051
UZ.P060	0.741071429	0.803418803	0.742424242	0.718446602	0.8	0.714285714	0.7	0.698924731
UZ.P061	0.6	0.785714286	0.8	0.632075472	0.771186441	0.62962963	0.638095238	0.574468085
UZ.P063	0.772727273	0.885416667	0.717948718	0.746835443	0.887640449	0.771084337	0.772151899	0.705882353
UZ.P064	0.596330275	0.666666667	0.8125	0.615384615	0.736842105	0.586538462	0.621359223	0.628865979
UZ.P124	0.854166667	0.898989899	0.869565217	0.865168539	0.913978495	0.857142857	0.862869866	0.857
UZ.P127	0.82	0.896226415	0.846153846	0.840425532	0.91	0.808510638	0.824175824	0.819277108
UZ.P128	0.776595745	0.871287129	0.787234043	0.76744186	0.872340426	0.73255814	0.804597701	0.733333333
UZ.P129	0.880434783	0.9375	0.902439024	0.853658537	0.931818182	0.885057471	0.891566265	0.893333333
UZ.P130	0.829787234	0.887755102	0.790697674	0.783132523	0.89010989	0.818181818	0.792682927	0.8
UZ.P131	0.822916667	0.901960784	0.829787234	0.818181818	0.893617021	0.824175824	0.827586207	0.8375
UZ.P132	0.896551724	0.956043956	0.774193548	0.884615385	0.925925926	0.875	0.881578947	0.865671642
UZ.P133	0.891304348	0.89010989	0.9	0.879518072	0.865833659	0.88372093	0.87654321	0.861111111
UZ.P115	0.768518519	0.871794872	0.790322581	0.734693878	0.872727273	0.690721649	0.755102041	0.730337079
UZ.P134	0.8125	0.742857143	0.880597015	0.747474747	0.784313725	0.778846154	0.826923077	0.822916667
UZ.P135	0.94047619	0.976744186	0.931034483	0.961038961	0.987341772	0.949367089	0.945945455	0.954545455
UZ.P136	0.821052632	0.878787879	0.85106383	0.759036145	0.904255319	0.835164835	0.852272727	0.835443038
UZ.P137	0.887640449	0.923076923	0.757575758	0.860759494	0.902439024	0.851851852	0.871794872	0.771428571
UZ.P138	0.857142857	0.855670103	0.875	0.788235294	0.773809524	0.781609195	0.865168539	0.873333333
UZ.P139	0.909090909	0.608333333	0.952380952	0.864285714	0.663865646	0.890410959	0.902097902	0.935251799
UZ.P140	0.848	0.598039216	0.76146789	0.897435897	0.62244898	0.810344828	0.863247863	0.862385321
UZ.P141	0.801724138	0.698113208	0.890410959	0.737864078	0.785046729	0.733333333	0.803738318	0.81
UZ.P142	0.80952381	0.862385321	0.883333333	0.851485149	0.873786408	0.785714286	0.882352941	0.846153846
UZ.P143	0.927710843	0.976744186	0.851851852	0.933333333	0.961038961	0.949367089	0.96	0.938461538
UZ.P116	0.752808989	0.910891089	0.847826087	0.813953488	0.926315789	0.779069767	0.823529412	0.802631579
UZ.P144	0.819047619	0.861111111	0.9	0.789473684	0.85	0.854368932	0.892156863	0.804597701
UZ.P145	0.841584158	0.945454545	0.865384615	0.826086957	0.961538462	0.878787879	0.872340426	0.897727273
UZ.P146	0.882352941	0.651785714	0.931818182	0.846774194	0.723214286	0.876923077	0.88976378	0.909090909
UZ.P147	0.886363636	0.956989247	0.956989247	0.918918919	0.901234568	0.952941176	0.917647059	0.9125
UZ.P148	0.782608696	0.863945578	0.842105263	0.776923077	0.856115108	0.763358779	0.819548872	0.834645669
UZ.P149	0.836538462	0.899082569	0.894736842	0.845360825	0.88	0.883495146	0.87755102	0.865168539
UZ.P150	0.891304348	0.89010989	0.842105263	0.851851852	0.905882353	0.857142857	0.890243902	0.891891892
UZ.P151	0.901098901	0.946808511	0.833333333	0.890243902	0.929411765	0.853658537	0.8875	0.873239437
UZ.P152	0.767241379	0.796610169	0.881578947	0.747663551	0.792792793	0.754545455	0.810810811	0.85046729
UZ.P153	0.849056604	0.947826087	0.877192982	0.830551546	0.943925234	0.873788408	0.900909099	0.879120879
UZ.P117	0.826086957	0.919191919	0.80952381	0.807228916	0.9	0.827586207	0.858823529	0.810810811
UZ.P154	0.91	0.744186047	0.9375	0.863636364	0.795180723	0.904255319	0.898876404	0.927710843
UZ.P155	0.89	0.804347826	0.918367347	0.840909091	0.756097561	0.858695652	0.888888889	0.903614458
UZ.P156	0.793814433	0.945454545	0.843137255	0.813186813	0.930693069	0.831578947	0.860215054	0.858823529
UZ.P157	0.833333333	0.936936937	0.849056604	0.829787234	0.942307692	0.830551546	0.863157895	0.835294118
UZ.P158	0.87254902	0.934579439	0.903846154	0.847826087	0.960784314	0.87628866	0.88172043	0.882352941
UZ.P159	0.8125	0.9	0.880597015	0.72277228	0.912280702	0.77846154	0.838095238	0.810526316
UZ.P160	0.858490566	0.823529412	0.875	0.821052632	0.833333333	0.838383838	0.854166667	0.865168539
UZ.P161	0.876404494	0.862068966	0.833333333	0.8625	0.848101266	0.853658537	0.8875	0.873239437
UZ.P162	0.88034188	0.631578947	0.91					

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UZ.P074	UZ.P056	UZ.P075	UZ.P076	UZ.P077	UZ.P079	UZ.P080	UZ.P081
0,831858407	0,712962963	0,723577236	0,628865979	0,625	0,834782609	0,744444444	0,631067961
0,621052632	0,810344828	0,7	0,810810811	0,816666667	0,757009346	0,857142857	0,861788618
0,825396825	0,791044776	0,821428571	0,75	0,75	0,882352941	0,720932033	0,779411765
0,794117647	0,712871287	0,642201835	0,694736842	0,673267327	0,820754717	0,731707317	0,742857143
0,602272727	0,818181818	0,701754386	0,830188679	0,824561404	0,75	0,804597701	0,842105263
0,8	0,656565657	0,709401709	0,677083333	0,63	0,814814815	0,770114943	0,65
0,825242718	0,693877551	0,730434783	0,688172043	0,639175258	0,861111111	0,8	0,631578947
0,857142857	0,677777778	0,719626168	0,62195122	0,677419355	0,824742268	0,708333333	0,593023256
NA	0,861702128	0,762376238	0,825581395	0,831578947	0,621621622	0,85915493	0,87628866
0,861702128	NA	0,788990826	0,666666667	0,71391304	0,864583333	0,794520548	0,651162791
0,762376238	0,788990826	NA	0,701030928	0,666666667	0,834862385	0,808988764	0,759259259
0,825581395	0,666666667	0,666666667	0,666666667	NA	0,829545455	0,757575758	0,58974359
0,831578947	0,717391304	0,666666667	0,666666667	0,666666667	0,835051546	0,756756757	0,681318681
0,621621622	0,864583333	0,834862385	0,829545455	0,835051546	NA	0,893333333	0,867346939
0,85915493	0,794520548	0,808988764	0,757575758	0,757575758	0,893333333	NA	0,732394366
0,87628866	0,651162791	0,759259259	0,58974359	0,681318681	0,867346939	0,732394366	NA
0,863636364	0,811111111	0,724489796	0,768292683	0,678571429	0,853932584	0,753846154	0,670731707
0,842696629	0,735632184	0,732673267	0,649350649	0,719101124	0,846153846	0,727272727	0,712643678
0,802197802	0,696629213	0,759259259	0,69047619	0,666666667	0,819148936	0,783783784	0,744680851
0,8125	0,725	0,8	0,72	0,722891566	0,7875	0,711864407	0,716049383
0,841269841	0,823529412	0,804878049	0,786885246	0,782608696	0,828125	0,714285714	0,828571429
0,591549296	0,896907216	0,762376238	0,902173913	0,867346939	0,756097561	0,85915493	0,931372549
0,901639344	0,861538462	0,85	0,847457627	0,818181818	0,85	0,769230769	0,865671642
0,890625	0,885714286	0,843373494	0,838709677	0,845070423	0,876923077	0,844444444	0,805970149
0,826666667	0,766233766	0,79787234	0,797297297	0,730769231	0,783783784	0,810344828	0,7875
0,697674419	0,747368421	0,682692308	0,686046512	0,633333333	0,787234043	0,792207792	0,726315789
0,722972973	0,826347305	0,687116564	0,8125	0,795180723	0,767741935	0,866666667	0,842105263
0,847826087	0,797101449	0,713286713	0,787878788	0,740740741	0,789473684	0,842972507	0,8
0,825	0,78313253	0,692307692	0,602941176	0,670886076	0,829268293	0,728813559	0,728395062
0,838383838	0,659340659	0,703703704	0,696629213	0,584269663	0,793814433	0,736842105	0,606741573
0,780952381	0,714285714	0,669565217	0,683673469	0,650485437	0,849557522	0,788888889	0,731481481
0,886792453	0,935483871	0,923076923	0,888888889	0,90625	0,910714286	0,918918919	0,9375
0,666666667	0,758928571	0,622807018	0,656565657	0,711711712	0,803571429	0,810526316	0,741071429
0,823529412	0,754901961	0,681818182	0,67032967	0,663265306	0,767676768	0,811764706	0,71
0,619047619	0,821705426	0,682170543	0,81300813	0,809160305	0,743589744	0,844036697	0,824427481
0,746478873	0,8	0,774193548	0,767123288	0,734177215	0,833333333	0,793103448	0,819277108
0,704918033	0,87755102	0,78807947	0,864285714	0,826388889	0,73015873	0,851239669	0,871621622
0,822916667	0,762866598	0,767857143	0,658823529	0,622222222	0,85	0,763157895	0,659340659
0,623529412	0,841121495	0,732142857	0,770833333	0,780952381	0,760416667	0,847058624	0,833333333
0,776470588	0,738636364	0,747572816	0,670886076	0,707865169	0,847826087	0,802816901	0,670588235
0,660550459	0,858208955	0,704545455	0,8515625	0,819548872	0,713043478	0,866071429	0,868613139
0,686046512	0,857142857	0,745454545	0,871287129	0,807692308	0,67816092	0,853658537	0,909090909
0,652777778	0,844444444	0,767676768	0,804878049	0,838709677	0,792682927	0,852941176	0,835164835
0,69047619	0,911392405	0,774193548	0,893333333	0,871794872	0,753731343	0,918518519	0,932515337
0,831460674	0,752808989	0,747572816	0,764705882	0,736263736	0,860215054	0,731343284	0,744444444
0,677419355	0,858974359	0,755813953	0,847222222	0,82278481	0,727272727	0,788461538	0,903614458
0,641304348	0,842105263	0,739495798	0,833333333	0,817391304	0,690721649	0,872340426	0,854700855
0,788888889	0,752688172	0,759259259	0,69047619	0,736842105	0,806451613	0,767123288	0,744680851
0,792079208	0,65625	0,699115044	0,633333333	0,614583333	0,796116505	0,696202532	0,621052632
0,882352941	0,76119403	0,78313253	0,694915254	0,757142857	0,852941176	0,674418605	0,692307692
0,75257732	0,707070707	0,648148148	0,673913043	0,625	0,805825243	0,771084337	0,673469388
0,852941176	0,851351351	0,855555556	0,820895522	0,858974359	0,918918919	0,907407047	0,84
0,938271605	0,76	0,855670103	0,808219178	0,772151899	0,939759036	0,86440678	0,782051282
0,830985915	0,732394366	0,8	0,727272727	0,746666667	0,785714286	0,79245283	0,773333333
0,924242424	0,885714286	0,88372093	0,857142857	0,845070423	0,926470588	0,893617021	0,84057971
0,869565217	0,819444444	0,842696629	0,784615385	0,780821918	0,904109589	0,8	0,824324324
0,875	0,842105263	0,872340426	0,794117647	0,789473684	0,907894737	0,830188679	0,8
0,933333333	0,873015873	0,8875	0,839285714	0,828125	0,952380952	0,846153846	0,859375
0,888888889	0,867647059	0,841463415	0,873015873	0,875	0,857142857	0,866666667	0,902777778
0,877777778	0,729411765	0,788461538	0,725	0,755555556	0,880434783	0,757575758	0,705882353
0,768292683	0,786516854	0,752475248	0,771084337	0,795698925	0,880434783	0,811594203	0,854166667
0,963636364	0,933333333	0,935064935	0,945454545	0,9375	0,946428571	0,944444444	0,935483871
0,873239437	0,757142857	0,833333333	0,791044776	0,77027027	0,876712329	0,826923077	0,813333333
0,901639344	0,84375	0,864197531	0,827586207	0,818181818	0,904761905	0,829268293	0,830769231
0,769230769	0,87012987	0,779069767	0,808823529	0,818181818	0,738461538	0,849056604	0,858974359
0,67961165	0,940740741	0,807407407	0,937984496	0,911111111	0,778761062	0,955357143	0,978873239
0,666666667	0,855769231	0,765765766	0,87	0,871559633	0,836734694	0,892857143	0,8
0,797752809	0,774193548	0,788990826	0,813186813	0,795918367	0,864583333	0,842105263	0,828282828
0,865853659	0,80952381	0,82	0,810126582	0,831460674	0,895348837	0,878787879	0,853932584
0,924528302	0,915254237	0,948717949	0,905660377	0,920634921	0,946428571	0,882352941	0,918032787
0,887323944	0,771428571	0,844444444	0,787878788	0,783783784	0,934210526	0,823529412	0,777777778
0,835443038	0,835294118	0,83	0,8375	0,829545455	0,894117647	0,841269841	0,852272727
0,9375	0,85	0,87755102	0,837837838	0,870588235	0,964285714	0,9	0,86746988
0,709677419	0,895652174	0,821138211	0,90990991	0,870689655	0,767676768	0,925531915	0,951219512
0,935483871	0,859375	0,929411765	0,883333333	0,945205479	0,96969697	0,906976744	0,863636364
0,83760838	0,788135593	0,833333333	0,848739496	0,764705882	0,830508475	0,875	0,830645161
0,873417722	0,870588235	0,871287129	0,846153846	0,80952381	0,8625	0,888888889	0,886363636
0,852459016	0,833333333	0,855421687	0,85483871	0,808823529	0,857142857	0,914893617	0,887323944
0,9375	0,828125	0,892857143	0,85	0,803030303	0,939393939	0,833333333	0,850746269
0,738636364	0,808080808	0,752293578	0,808510638	0,838095238	0,835051546	0,864197531	0,823529412
0,928571429	0,817073171	0,904761905	0,87654321	0,877777778	0,917647059	0,873015873	0,875
0,882352941	0,814285714	0,83908046	0,777777778	0,808219178	0,885714286	0,787234043	0,785714286
0,737704918	0,909090909	0,827586207	0,931506849	0,886075949	0,855072464	0,884615385	0,938271605
0,725806452	0,911392405	0,844444444	0,904109589	0,846153846	0,791044776	0,888888889	0,926829268
0,896103896	0,835443038	0,910891089	0,821917808	0,814814815	0,9125	0,821428571	0,839506173
0,925925926	0,794871795	0,88	0,826666667	0,833333333	0,94047619	0,847457627	0,784810127
0,949367089	0,860759494	0,909090909	0,864864865	0,894117647	0,963414634	0,896551724	0,85
0,902173913	0,820686957	0,844036697	0,8	0,782608696	0,92708333		

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UZ.P083	UZ.P084	UZ.P085	UZ.P057	UZ.P086	UZ.P087	UZ.P089	UZ.P091
0.68	0.76146789	0.706422018	0.717171717	0.806818182	0.862068966	0.887640449	0.829545455
0.860869565	0.824561404	0.842975207	0.864864865	0.905263158	0.649484536	0.923076923	0.903225806
0.724137931	0.737704918	0.779411765	0.745454545	0.694444444	0.911764706	0.633333333	0.783783784
0.71875	0.714285714	0.705882353	0.744680851	0.8	0.77	0.846153846	0.825
0.828571429	0.788461538	0.831858407	0.843137255	0.870588235	0.648351648	0.888888889	0.880952381
0.701030928	0.722727272	0.722727272	0.738317757	0.75257732	0.807228916	0.844036697	0.879518072
0.726315789	0.708333333	0.7	0.739130435	0.825	0.858490566	0.857142857	0.805194805
0.727272727	0.662790698	0.698924731	0.770114943	0.802816901	0.88	0.855072464	0.797101449
0.863636364	0.842696629	0.802197802	0.8125	0.841269841	0.591549296	0.901639344	0.890625
0.811111111	0.735632184	0.698629213	0.725	0.823529412	0.896907216	0.861538462	0.885714286
0.724489796	0.732673267	0.759259259	0.8	0.804878049	0.762376238	0.85	0.843373494
0.768292883	0.649350649	0.69047619	0.72	0.786885246	0.902173913	0.847457627	0.838708677
0.678571429	0.719101124	0.666666667	0.722891566	0.782608696	0.867346939	0.818181818	0.845070423
0.853932584	0.846153846	0.819148936	0.7875	0.828125	0.756097561	0.85	0.876923077
0.753846154	0.727272727	0.783783784	0.711864407	0.714285714	0.85915493	0.769230769	0.844444444
0.670731707	0.712643675	0.744680851	0.716049383	0.828571429	0.931372549	0.865671642	0.805970149
NA	0.747126437	0.698630137	0.698630137	0.783333333	0.850574713	0.824561404	0.754385965
	0.727272727	0.775	0.775	0.8125	0.892473118	0.833333333	0.825396825
	0.7125 NA	0.666666667 NA	0.666666667 NA	0.757575758	0.827956989	0.793650794	0.75
0.747126437	0.727272727 NA	0.775	0.692307692 NA	0.692307692	0.841463415	0.784313725	0.821428571
0.698630137	0.8125	0.8125	0.8125	0.8125	0.841269841 NA	0.8125	0.8125
0.783333333	0.892473118	0.827956989	0.841463415	0.841269841 NA	0.709677419	0.919354839 NA	0.890625
0.850574713	0.833333333	0.793650794	0.784313725	0.709677419	0.890625	0.8125 NA	0.843137255
0.824561404	0.825396825	0.75	0.821428571	0.810810811	0.794520548	0.829787234	0.814285714
0.754385965	0.77027027	0.756410256	0.779411765	0.755102041	0.782608696	0.855072464	0.904109589
0.794520548	0.722222222	0.67032967	0.755813953	0.802816901	0.714285714	0.916666667	0.904109589
0.727272727	0.807453416	0.835294118	0.864197531	0.890410959	0.839416058	0.913793103	0.898305085
0.847560976	0.808823529	0.782608696	0.80620155	0.871794872	0.86746988	0.849056604	0.796296296
0.776923077	0.706666667	0.743902439	0.763888889	0.759259259	0.83746988	0.828571429	0.853333333
0.746666667	0.674157303	0.708333333	0.720930233	0.777777778	0.87254902	0.869047619	0.853333333
0.722222222	0.72	0.798165138	0.70754717	0.731958763	0.797619048	0.757281553	0.869047619
0.866792453	0.931034483	0.885245902	0.826086957	0.769230769	0.964912281	0.818181818	0.846153846
0.777777778	0.68336637	0.694444444	0.778846154	0.820224719	0.754716981	0.875	0.855555556
0.696562174	0.71875	0.759615385	0.76344086	0.776315789	0.846153846	0.84	0.848101266
0.791666667	0.806451613	0.777777778	0.81359322	0.854368932	0.644859813	0.912621359	0.862745098
0.797297297	0.789473684	0.840277778	0.764705882	0.807692308	0.858974359	0.857142857	0.867924528
0.846715328	0.841726619	0.715909091	0.725274725	0.744186047	0.837837838	0.831623932	0.906779661
0.841584158	0.811881188	0.8	0.845380825	0.888888889	0.892156863	0.888888889	0.864864865
0.746987952	0.741176471	0.701149425	0.730769231	0.850746269	0.831460674	0.890625	0.842105263
0.841269841	0.826771654	0.843283582	0.853658537	0.855769231	0.684684685	0.902912621	0.906542056
0.846938776	0.8	0.838095238	0.863157895	0.868421053	0.62195122	0.888888889	0.864864865
0.845238095	0.837209302	0.822222222	0.820512821	0.852459016	0.689189189	0.915254237	0.885245902
0.907284768	0.894736842	0.87012987	0.904109589	0.904761905	0.68	0.952380952	0.929133858
0.7	0.741176471	0.701149425	0.7625	0.9696875	0.818181818	0.85483871	0.770491803
0.811594203	0.866666667	0.866666667	0.833333333	0.777777778	0.633333333	0.804878049	0.822222222
0.798076923	0.79245283	0.792792797	0.823529412	0.847058824	0.655913978	0.87804878	0.857142857
0.73255814	0.697674419	0.717391304	0.683544304	0.757575758	0.815217391	0.848484848	0.873239437
0.70212766	0.711340206	0.635416667	0.714285714	0.8125	0.78	0.844155844	0.851851852
0.711864407	0.704918033	0.768115942	0.709090909	0.775	0.929577465	0.771428571	0.794871795
0.739583333	0.694736842	0.659793814	0.752688172	0.794871795	0.765306122	0.857142857	0.805194805
0.885714286	0.890410959	0.84	0.762711864	0.866666667	0.945494596	0.928571429	0.860465116
0.837837838	0.844155844	0.797468354	0.772727273	0.865384615	0.963855422	0.918367347	0.903846154
0.76119403	0.788732394	0.722222222	0.7	0.727272727	0.878378378	0.837209302	0.851063871
0.85483871	0.878787879	0.857142857	0.8	0.871794872	0.971014493	0.882352941	0.923076923
0.818181818	0.826086957	0.774647887	0.783333333	0.840909091	0.916666667	0.902439024	0.886363636
0.85915493	0.816901408	0.75	0.754098361	0.772727273	0.905405405	0.88372093	0.869565217
0.877192982	0.844827586	0.859375	0.82	0.766666667	0.984126984	0.851851852	0.90625
0.888888889	0.876923077	0.871428571	0.773584906	0.771428571	0.923076923	0.84375	0.891891892
0.705128205	0.761904762	0.791208791	0.666666667	0.786885246	0.902173913	0.866666667	0.875
0.852272727	0.844444444	0.764044944	0.784810127	0.825396825	0.78313253	0.885245902	0.875
0.944444444	0.947368421	0.935483871	0.893617021	0.888888889	0.982142857	0.909090909	0.923076923
0.805970149	0.847222222	0.797297297	0.728813559	0.795454545	0.888888889	0.880952381	0.866666667
0.803571429	0.81359323	0.830769231	0.807692308	0.787878788	0.936507937	0.785714286	0.882352941
0.823529412	0.797101449	0.797297297	0.790322581	0.76744186	0.769230769	0.880952381	0.866666667
0.929133858	0.946969697	0.901515152	0.926229508	0.920792079	0.64	0.948979592	0.940594059
0.891089109	0.883495146	0.847619048	0.824175824	0.851351351	0.682352941	0.946666667	0.878378378
0.849462366	0.865979381	0.791666667	0.8	0.84057971	0.797752809	0.927536232	0.916666667
0.851851852	0.870588235	0.866666667	0.826666667	0.862068966	0.892857143	0.928571429	0.915254237
0.924528302	0.888888889	0.918032787	0.869565217	0.846153846	0.982142857	0.909090909	0.88
0.820895522	0.876712329	0.794520548	0.745762712	0.790697674	0.960526316	0.930232558	0.863636364
0.835443038	0.895348837	0.852272727	0.791666667	0.859649123	0.891566265	0.964912281	0.894736842
0.881578947	0.913580247	0.880952381	0.84057971	0.862745098	0.988095238	0.916666667	0.923076923
0.909090909	0.901785714	0.868421053	0.883495146	0.879518072	0.651685393	0.951807229	0.941860465
0.935483871	0.938461538	0.928571429	0.849056604	0.916666667	0.952380952	0.935483871	0.878787879
0.763636364	0.801724138	0.81147541	0.764150943	0.87628866	0.866666667	0.880434783	0.885416667
0.844155844	0.864197531	0.833333333	0.782608696	0.807692308	0.873417722	0.923076923	0.888888889
0.870967742	0.859375	0.838235294	0.796296296	0.805555556	0.90625	0.878787879	0.948717949
0.866666667	0.85483871	0.867647059	0.833333333	0.861111111	0.985074627	0.870967742	0.885714286
0.819148936	0.824742268	0.8	0.738095238	0.849315068	0.793478261	0.916666667	0.861111111
0.875	0.905882353	0.862068966	0.819444444	0.875	0.953488372	0.924528302	0.890909091
0.8125	0.784615385	0.802816901	0.685185185	0.804878049	0.929577465	0.837837838	0.853658537
0.915492958	0.933333333	0.883116883	0.892307692	0.863636364	0.574074074	0.928829268	0.909090909
0.902777778	0.876712329	0.886075949	0.861538462	0.844444444	0.746031746	0.87804878	0.913043478
0.835616438	0.913580247	0.825	0.709677419	0.816326531	0.950617284	0.916666667	0.88
0.808219178	0.888888889	0.829266293	0.757575758	0.823529412	0.976470588	0.897959184	0.884615385
0.878378378	0.911392405	0.917647059	0.869565217	0.901960784	0.987804878	0.958333333	0.897959184
0.797619048	0.844444444	0.829787234	0.829268293	0.878787879	0.925531915	0.953846154	0.909090909
0.873417722	0.917647059	0.860465116	0.816901408	0.830188679	0.885974359	0.923076923	0.928571429
0.866666667	0.873015873	0.867647059	0.811320755	0.71875	0.885245902	0.870967742	0.885714286
0.875	0.914893617	0.838709677	0.894117647	0.875	0.605633803	0.9	0.90625
0.82278481	0.814814381	0.8	0.76056338	0.842105263	0.879518072	0.909090909	0.836363636
0.806818182	0.8	0.8	0.75	0.8	0.793103448	0.857142857	0.865671642
0.85915493	0.849315068	0.831168831	0.774193548	0.8	0.948051948	0.857142857	0.893617021
0.885714286	0.826086957	0.84	0.803278689	0.756097561	0.901408451	0.902439024	0.911111111
0.885245902	0.85483871	0.850746269	0.811320755	0.794117647	0.953846154	0.939393939	0.916666667
0.823529412	0.830985915	0.763888889	0.728813559	0.795454545	0.857		

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UZ.P092	UZ.P093	UZ.P094	UZ.P095	UZ.P096	UZ.P097	UZ.P098	UZ.P098
0,787878788	0,678899083	0,792349727	0,743421053	0,659574468	0,651376147	0,620689655	0,929411765
0,855769231	0,734513274	0,543046358	0,8125	0,820754717	0,822580645	0,728	0,953488372
0,76	0,71641791	0,883561644	0,853448276	0,740740741	0,780821918	0,8	0,777777778
0,78021978	0,59375	0,74556213	0,77027027	0,685393258	0,633663366	0,63963964	0,891891892
0,793478261	0,714285714	0,623376623	0,802631579	0,818181818	0,789473684	0,731092437	0,962025316
0,747252747	0,685714286	0,778409091	0,75	0,709677419	0,603960396	0,660869565	0,9375
0,761363636	0,683168317	0,779069767	0,767123288	0,736263736	0,679611655	0,726495726	0,918918919
0,765432099	0,694736842	0,781818182	0,760869565	0,641025641	0,556818182	0,727272727	0,940298507
0,826666667	0,697674419	0,722972973	0,847826087	0,825	0,838383838	0,780952381	0,886792453
0,765233766	0,747368421	0,826347305	0,797101449	0,78313253	0,659340659	0,714285714	0,935483871
0,79787234	0,682892308	0,687116564	0,713286713	0,692307692	0,703703704	0,669565217	0,923076923
0,797297297	0,686046512	0,8125	0,787878788	0,602941176	0,696629213	0,683673469	0,888888889
0,730769231	0,633333333	0,795180723	0,740740741	0,670886076	0,584269663	0,650485437	0,90625
0,783783784	0,787234043	0,767741935	0,789473684	0,829268293	0,793814433	0,849557522	0,910714286
0,810344828	0,792207792	0,866666667	0,842975207	0,728813559	0,736842105	0,788888889	0,918918919
0,7875	0,726315789	0,842105263	0,8	0,728395062	0,606741573	0,731481481	0,9375
0,794520548	0,727272727	0,847560976	0,776923077	0,746666667	0,722222222	0,72	0,886792453
0,77027027	0,722222222	0,807453416	0,808823529	0,706666667	0,674157303	0,798165138	0,931034483
0,756410256	0,67032967	0,835294118	0,782608696	0,743902439	0,708333333	0,70754717	0,885245902
0,779411765	0,755813953	0,864197531	0,80620155	0,763888889	0,720930233	0,731958763	0,826086957
0,755102041	0,802816901	0,890410959	0,871794872	0,759259259	0,777777778	0,797619048	0,769230769
0,794520548	0,782608696	0,714285714	0,839416058	0,867469888	0,87254902	0,757281553	0,964912281
0,829787234	0,855072464	0,916666667	0,913793103	0,849056604	0,828571429	0,869047619	0,818181818
0,843137255	0,814285714	0,904109589	0,898305085	0,796296296	0,853333333	0,835294118	0,846153846
	0,780487805	0,82781457	0,824	0,738461538	0,743902439	0,725274725	0,906976744
0,780487805	NA	0,711538462	0,760869565	0,675	0,704081633	0,666666667	0,907692308
0,82781457	0,711538462	NA	0,666666667	0,819354839	0,813953488	0,738372093	0,927222222
0,824	0,760869565	0,666666667	NA	0,756097561	0,756097561	0,679130435	0,946428571
0,738461538	0,675	0,819354839	0,756097561	NA	0,686746988	0,686746988	0,872340426
0,743902439	0,704081633	0,813953488	0,739130435	0,686746988	NA	0,723214286	0,927536232
0,725274725	0,666666667	0,738372093	0,761589404	0,688172043	0,723214286	NA	0,925925926
0,906976744	0,907692308	0,972222222	0,946428571	0,872340426	0,927536232	0,925925926	NA
0,775510204	0,56	0,692307692	0,775641026	0,714285714	0,699115044	0,67768595	0,916666667
0,744186047	0,754716981	0,69375	0,664179104	0,719101124	0,714285714	0,724137931	0,932432432
0,801801802	0,702479339	0,555555556	0,748466258	0,780701754	0,796992481	0,658914729	0,93877551
0,777777778	0,7375	0,828947368	0,834645669	0,76119403	0,746987952	0,741935484	0,88372093
0,81300813	0,721804511	0,538461538	0,74566474	0,839694656	0,838926174	0,776315789	0,982608696
0,797619048	0,711340206	0,797619048	0,735294118	0,679012346	0,652631579	0,694444444	0,909090909
0,806818182	0,670103093	0,662337662	0,802721088	0,793478261	0,788990826	0,705357143	0,944444444
0,789473684	0,681818182	0,81595092	0,81884058	0,638888889	0,692307692	0,718446602	0,913793103
0,781818182	0,786256	0,558282209	0,710691824	0,842975207	0,824817518	0,748201439	0,95
0,78313253	0,75	0,696774194	0,813793103	0,836965622	0,803738318	0,794871795	0,956521739
0,866666667	0,775280899	0,751677852	0,835820896	0,833333333	0,833333333	0,774509804	0,923076923
0,858208955	0,804054054	0,469879518	0,755555556	0,888111888	0,860759494	0,801242236	0,975206612
0,704225352	0,711111111	0,808641975	0,746153846	0,775	0,747368421	0,718446602	0,93220339
0,727272727	0,794871795	0,8125	0,853658537	0,830769231	0,7875	0,891891892	0,923076923
0,810526316	0,719626168	0,636942675	0,765100671	0,833333333	0,803418803	0,776	0,923076923
0,756410256	0,712765957	0,712765957	0,717557252	0,743902439	0,734693878	0,719626168	0,920634921
0,720930233	0,723809524	0,758823529	0,725352113	0,681818182	0,587628866	0,660714286	0,934210526
0,836363636	0,777777778	0,89261745	0,855932203	0,75	0,7	0,804597701	0,870967742
0,747126437	0,6	0,734939759	0,75862069	0,662790698	0,612244898	0,62037037	0,933333333
0,918032787	0,831168831	0,922580645	0,904	0,857142857	0,8375	0,884210526	0,806451613
0,825396825	0,886363636	0,919753086	0,901515152	0,857142857	0,78313253	0,824742268	0,977272727
0,754385965	0,766233766	0,868421053	0,836065574	0,758064516	0,710526316	0,819149896	0,864864865
0,843137255	0,847222222	0,933333333	0,916666667	0,839285714	0,853333333	0,887640449	0,928571429
0,862068966	0,815789474	0,901315789	0,867768595	0,8	0,807692308	0,822222222	0,911764706
0,921875	0,8375	0,91025641	0,870967742	0,770491803	0,8	0,864583333	0,857142857
0,869565217	0,882352941	0,944827586	0,921052632	0,884615385	0,871428571	0,87804878	0,904761905
0,84	0,891891892	0,895833333	0,897435897	0,857142857	0,866666667	0,898876404	0,791666667
0,813333333	0,784946237	0,862275449	0,796992481	0,766233766	0,725274725	0,735294118	0,909090909
0,828947368	0,77173913	0,8125	0,84057971	0,8125	0,791666667	0,735294118	0,928571429
0,928571429	0,954545455	0,971830986	0,964285714	0,959183673	0,956521739	0,963414634	0,857142857
0,807017544	0,820512821	0,880794702	0,90551811	0,84375	0,797468354	0,8	0,885714286
0,804347826	0,855072464	0,931506849	0,913793103	0,87037037	0,845070423	0,895348837	0,869565217
0,716981132	0,789473684	0,850340136	0,879032258	0,825396825	0,797468354	0,838709677	0,945945946
0,882882883	0,84375	0,58490566	0,765822785	0,916666667	0,929078014	0,845070423	0,989361702
0,863636364	0,796116505	0,694805195	0,8	0,847826087	0,855855856	0,761061947	0,971014493
0,8125	0,833333333	0,804878049	0,839160839	0,865168539	0,767676768	0,794642857	0,952380952
0,875	0,846153846	0,883435583	0,857142857	0,824324324	0,826086957	0,836538462	0,96
0,928571429	0,938461538	0,971830986	0,954954955	0,9375	0,925373134	0,950617284	0,857142857
0,844827586	0,8625	0,901960784	0,87804878	0,822580645	0,794871795	0,824175824	0,848484848
0,888888889	0,844444444	0,86875	0,881481481	0,837837838	0,770114943	0,846153846	0,9375
0,971830986	0,885057471	0,93902439	0,892307692	0,887323944	0,837209302	0,913461538	0,9
0,838709677	0,821428571	0,633986928	0,790540541	0,893203883	0,902439024	0,825396825	0,987179487
0,981132075	0,931506849	0,945578231	0,940677966	0,909090909	0,890410959	0,931818182	1
0,830188679	0,825396825	0,783783784	0,75	0,818181818	0,811023622	0,802919708	0,93258427
0,884057971	0,83908046	0,866242038	0,84375	0,797101449	0,844444444	0,841584158	0,909090909
0,816326531	0,845070423	0,910958904	0,897435897	0,877192982	0,835616438	0,847058824	0,925925926
0,857142857	0,904109589	0,939189189	0,905172414	0,830188679	0,847222222	0,88372093	0,92
0,821428571	0,794117647	0,80952381	0,843537015	0,820224719	0,8	0,791304348	0,95523881
0,931506849	0,891304348	0,93452381	0,888059701	0,894736842	0,846153846	0,907407407	0,957446809
0,857142857	0,842105263	0,914473684	0,89342623	0,771929825	0,786666667	0,857142857	0,90625
0,839285714	0,844155844	0,839160839	0,876033058	0,907692308	0,904761905	0,833333333	0,971428571
0,824561404	0,818181818	0,833333333	0,896	0,878623077	0,880952381	0,861702128	0,914285714
0,910447761	0,845238095	0,93902439	0,892307692	0,855072464	0,80952381	0,87	0,871794872
0,897058824	0,862068966	0,926829268	0,868217054	0,890410959	0,8	0,85	0,930232558
0,924242424	0,895348837	0,938271605	0,916030534	0,884057971	0,860465116	0,89	0,95
0,8875	0,822916667	0,895348837	0,865248227	0,869047619	0,791666667	0,837837838	0,965517241
0,8	0,82581395	0,858974359	0,852713178	0,878378378	0,831460674	0,818181818	0,956521739
0,87012987	0,806451613	0,84057971	0,905172414	0,872727273	0,863013699	0,857142857	0,875
0,808823529	0,779069767	0,72972973	0,838235294	0,879518072	0,86	0,813084112	0,964285714
0,82276481	0,806122449	0,7875	0,845070423	0,821428571	0,762866598	0,768518519	0,893617021
0,830508475	0,851851852	0,924050633	0,861788618	0,828125	0,769230769	0,852631579	0,950819672
0,881355932	0,8	0,848275862	0,89516129	0,819672131	0,82278481	0,860215054	0,911764706
0,923076923	0,857142857	0,931972789	0,905172414	0,851851852	0,797101449	0,909090909	0,875

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UZ.P099	UZ.P100	UZ.P101	UZ.P102	UZ.P103	UZ.P104	UZ.P105	UZ.P106
0.698412698	0.700854701	0.787671233	0.801980198	0.8125	0.705357143	0.778688525	0.704761905
0.606837607	0.792	0.545454545	0.823529412	0.610294118	0.809917355	0.642201835	0.805309735
0.76744186	0.763157895	0.866666667	0.788461538	0.918032787	0.791666667	0.87654321	0.741935484
0.616071429	0.756521739	0.727272727	0.727272727	0.716312057	0.740740741	0.751	0.663157895
0.663793103	0.808333333	0.564102564	0.769230769	0.607692308	0.807017544	0.6	0.79047619
0.64957265	0.684684685	0.751824818	0.736263736	0.805194805	0.663461538	0.777777778	0.686868687
0.692307692	0.763157895	0.751879699	0.764044944	0.837662338	0.735849057	0.767857143	0.670212766
0.678899083	0.730769231	0.782945736	0.797619048	0.819444444	0.697916667	0.759615385	0.666666667
0.666666667	0.823529412	0.619047619	0.746478873	0.704918033	0.822916667	0.623529412	0.776470588
0.758928571	0.754901961	0.821705426	0.8	0.87755102	0.762886598	0.841121495	0.738636364
0.622807018	0.681818182	0.682170543	0.774193548	0.78807947	0.767857143	0.732142857	0.747572816
0.656565657	0.67032967	0.81300813	0.767123288	0.864285714	0.658823529	0.770833333	0.67086076
0.711711712	0.663265306	0.809160305	0.734177215	0.826388889	0.622222222	0.780952381	0.707865169
0.803571429	0.767676768	0.743589744	0.833333333	0.73015873	0.85	0.760416667	0.847826087
0.810526316	0.811764706	0.844036697	0.793103448	0.851239669	0.763157895	0.847058824	0.802816901
0.741071429	0.71	0.824427481	0.819277108	0.871621222	0.659340659	0.833333333	0.670588235
0.777777778	0.695652174	0.791666667	0.797297297	0.846715328	0.715909091	0.841584158	0.746987952
0.663366337	0.71875	0.806451613	0.789473684	0.841726619	0.725274725	0.811881188	0.741176471
0.694444444	0.759615385	0.777777778	0.775	0.840277778	0.767676768	0.8	0.701149425
0.778846154	0.76344086	0.813559322	0.764705882	0.875	0.744186047	0.845360825	0.730769231
0.820224719	0.776315789	0.854368932	0.807692308	0.88034188	0.837837838	0.888888889	0.850746269
0.754716981	0.846153846	0.644859813	0.858974359	0.637931034	0.892156663	0.7	0.831460674
0.875	0.84	0.912621359	0.857142857	0.931623932	0.888888889	0.936708861	0.890625
0.855555556	0.848101266	0.862745098	0.867924528	0.906779661	0.864864865	0.842105263	0.80952381
0.775510204	0.744186047	0.801801802	0.777777778	0.81300813	0.797619048	0.806818182	0.789473684
0.56	0.754716981	0.702479339	0.7375	0.721804511	0.711340206	0.670103093	0.681818182
0.692307692	0.69375	0.555555556	0.828947368	0.538461538	0.797619048	0.662337662	0.81595092
0.775641026	0.664179104	0.748466258	0.834645669	0.74566474	0.735294118	0.802721088	0.81884058
0.714285714	0.719101124	0.780701754	0.76119403	0.839694656	0.679012346	0.793478261	0.638888889
0.699115044	0.714285714	0.796992481	0.746987952	0.838926174	0.652631579	0.788990826	0.692307692
0.67768595	0.724137931	0.658914729	0.741935484	0.776315789	0.694444444	0.705357143	0.718446602
0.916666667	0.932432432	0.93877551	0.88372093	0.982608696	0.909090909	0.944444444	0.913793103
NA	0.700854701	0.659090909	0.739583333	0.661971831	0.669724771	0.62037037	0.583333333
0.700854701	NA	0.740458015	0.775280899	0.772413793	0.683168317	0.787610619	0.747474747
0.659090909	0.740458015	NA	0.803571429	0.58041958	0.775193798	0.775193798	0.615384615
0.739583333	0.775280899	0.803571429	NA	0.804878049	0.804878049	0.725	0.743243243
0.661971831	0.772413793	0.58041958	0.804878049	NA	0.787234043	0.787234043	0.826086957
0.669724771	0.683168317	0.775193798	0.725	0.787234043	NA	0.674242424	0.685393258
0.62037037	0.787610619	0.615384615	0.722891566	0.674242424	0.785046729	NA	0.726315789
0.583333333	0.747474747	0.726495726	0.743243243	0.826086957	0.685393258	0.726315789	NA
0.691176471	0.751879699	0.635714286	0.815789474	0.612244898	0.813432836	0.716535433	0.818897638
0.760683761	0.779816514	0.64957265	0.771084337	0.609756098	0.833333333	0.631578947	0.83
0.670103093	0.818181818	0.709090909	0.805555556	0.739837398	0.777777778	0.747252747	0.705128205
0.737179487	0.790849673	0.551724138	0.833333333	0.503355705	0.844155844	0.671532847	0.858108108
0.752293578	0.784313725	0.808	0.807692308	0.817518248	0.768421053	0.79	0.786516854
0.760689565	0.813953488	0.766990291	0.754389565	0.793103448	0.841463415	0.746835443	0.837837838
0.691666667	0.739130435	0.629032258	0.8	0.654411765	0.840336134	0.720720721	0.837837838
0.682242991	0.747572816	0.777777778	0.727272727	0.807142857	0.729166667	0.776699029	0.730337079
0.683780684	0.697247006	0.744360902	0.738636364	0.783783784	0.663366337	0.758928571	0.673684211
0.75862069	0.784810127	0.836538462	0.818181818	0.901639344	0.746478873	0.865853659	0.790677419
0.583333333	0.694444444	0.692913386	0.735632184	0.756944444	0.618556701	0.710280374	0.684210526
0.842105263	0.886363636	0.891891892	0.824561404	0.929133858	0.802631579	0.895348837	0.845070423
0.854368932	0.847826087	0.88034188	0.846153846	0.925373134	0.807228916	0.915789474	0.783783784
0.789473684	0.743902439	0.846846847	0.8	0.872	0.769230769	0.80952381	0.757142857
0.904255319	0.8625	0.925925926	0.823529412	0.925	0.849315068	0.926829268	0.897058824
0.829787234	0.833333333	0.781559633	0.781818182	0.903225806	0.802631579	0.855421687	0.776119403
0.846938776	0.83908046	0.884955752	0.852459016	0.92248062	0.825	0.898876404	0.819444444
0.88372093	0.88	0.898989899	0.847826087	0.957264957	0.850746269	0.934210526	0.866666667
0.866666667	0.846153846	0.883495146	0.843137255	0.924369748	0.907894737	0.884615385	0.895523388
0.799090909	0.777777778	0.822580645	0.815789474	0.888111888	0.747252747	0.865384615	0.779069767
0.779816514	0.779	0.773109244	0.767123288	0.830882353	0.848484848	0.783505155	0.793103448
0.965116279	0.930555556	0.96969697	0.954545455	0.99122807	0.970588235	0.972222222	0.966101695
0.845360825	0.823529412	0.831775701	0.810344828	0.887096774	0.82278481	0.885057471	0.8
0.862068966	0.824324324	0.912621359	0.808510638	0.913043478	0.873239437	0.923076923	0.873015873
0.782608696	0.80952381	0.80952381	0.810344828	0.810344828	0.851851852	0.817073171	0.849315068
0.791366906	0.818181818	0.649253731	0.883928571	0.633802817	0.920289855	0.714285714	0.888888889
0.690909091	0.788990826	0.634782609	0.825581395	0.721804511	0.853211009	0.696969697	0.791666667
0.769911504	0.801886792	0.774193548	0.814814815	0.795620438	0.811881188	0.807692308	0.78021978
0.831775701	0.810526316	0.859504132	0.828571429	0.889705882	0.860215054	0.829787234	0.817073171
0.952941176	0.930555556	0.948453608	0.904761905	0.982300885	0.92076923	0.957746479	0.929824561
0.878787879	0.807228916	0.892857143	0.807017544	0.9296875	0.820512821	0.88372093	0.847222222
0.807692308	0.808510638	0.858333333	0.791044776	0.872180451	0.793103448	0.815217391	0.8
0.875	0.870967742	0.925619835	0.878787879	0.963768116	0.819277108	0.9375	0.858974359
0.774193548	0.813559322	0.658536585	0.864583333	0.641221374	0.882352941	0.719626166	0.862385321
0.934782609	0.925	0.942857143	0.9	0.966666667	0.887323944	0.935897436	0.870967742
0.825174825	0.721311475	0.801324503	0.820754717	0.779874214	0.768595041	0.832061069	0.833333333
0.889908257	0.852631579	0.844827586	0.818181818	0.804878049	0.827586207	0.860215054	0.851851852
0.879120879	0.846153846	0.861386139	0.770833333	0.915254237	0.863013699	0.87012987	0.861538462
0.924731183	0.9	0.913461538	0.836734694	0.95	0.85915493	0.9375	0.875
0.745614035	0.775700935	0.752	0.795180723	0.818181818	0.796116505	0.79245283	0.736263736
0.920353982	0.87755102	0.92	0.838235294	0.942857143	0.842896629	0.983	0.853658537
0.85106383	0.829268293	0.87962963	0.839285714	0.928	0.797297297	0.892857143	0.805970149
0.852631579	0.897727273	0.815533981	0.842105263	0.805309735	0.941176471	0.794871795	0.875
0.831578847	0.848837209	0.796116505	0.827586207	0.798245614	0.904761905	0.829268293	0.893333333
0.86407767	0.858695652	0.898305085	0.825396825	0.932835821	0.790123457	0.891304348	0.780821918
0.898148148	0.824175824	0.9	0.865671642	0.933823529	0.795180723	0.927835052	0.8625
0.894230769	0.855555556	0.915254237	0.892307692	0.939849624	0.843373494	0.936170213	0.87012987
0.82300885	0.81372549	0.859375	0.831168831	0.89583			

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UZ.P107	UZ.P108	UZ.P110	UZ.P111	UZ.P112	UZ.P113	UZ.P114	UZ.P060
0,813333333	0,849206349	0,837837838	0,867816092	0,774774775	0,824742268	0,810606061	0,741071429
0,638461538	0,654205607	0,623655914	0,537313433	0,826086957	0,77173913	0,655172414	0,803418803
0,857142857	0,898734177	0,873015873	0,938931298	0,721311475	0,782608696	0,821428571	0,742424242
0,757352941	0,763636364	0,775510204	0,839506173	0,704081633	0,75	0,786885246	0,718446602
0,637096774	0,568421053	0,695652174	0,607407407	0,778846154	0,75	0,654545455	0,8
0,797202797	0,801724138	0,794117647	0,869822485	0,737864078	0,786516854	0,782258065	0,714285714
0,807142857	0,86440678	0,757894377	0,858895706	0,737373737	0,816091954	0,79338843	0,7
0,846715328	0,831775701	0,815217391	0,872611465	0,739130435	0,794871795	0,838983051	0,698924731
0,660550459	0,686046512	0,652777778	0,69047619	0,831460674	0,677419355	0,641304348	0,788888889
0,858208955	0,857142857	0,844444444	0,911392405	0,752808989	0,858974359	0,842105263	0,752688172
0,704545455	0,745454545	0,767676768	0,774183548	0,747572816	0,755813953	0,739495798	0,759259259
0,8515625	0,871287129	0,804878049	0,893333333	0,764705882	0,847222222	0,833333333	0,69047619
0,819548872	0,807692308	0,838709677	0,871794872	0,736263736	0,82278481	0,817391304	0,736842105
0,713043478	0,67816092	0,792682927	0,753731343	0,860215054	0,727272727	0,690721649	0,806451613
0,866071429	0,853658537	0,852941176	0,918518519	0,731343284	0,788461538	0,872340426	0,767123288
0,868613139	0,900909091	0,835164835	0,932515337	0,744444444	0,903614458	0,854700855	0,744680851
0,841269841	0,846938776	0,845238095	0,907284768	0,7	0,811594203	0,798076923	0,73255814
0,826771654	0,84	0,837209302	0,894736842	0,741176471	0,866666667	0,79245283	0,697674419
0,843283582	0,838095238	0,822222222	0,87012987	0,701149425	0,786666667	0,792792793	0,717391304
0,853658537	0,863157895	0,820512821	0,904109589	0,7625	0,833333333	0,823529412	0,683544304
0,855769231	0,868421053	0,852459016	0,904761905	0,796875	0,777777778	0,847058824	0,757575758
0,684684685	0,62195122	0,689189189	0,68	0,818181818	0,633333333	0,655913978	0,815217391
0,902912621	0,888888889	0,91254237	0,952380952	0,85483871	0,804878049	0,87804878	0,848484848
0,906542056	0,864864865	0,885245902	0,929133858	0,770491803	0,822222222	0,857142857	0,873239437
0,781818182	0,78313253	0,866666667	0,858208955	0,704225352	0,727272727	0,810526316	0,756410256
0,765625	0,75	0,775280899	0,804054054	0,711111111	0,794871795	0,719626168	0,712765957
0,558282209	0,696774194	0,751677852	0,469879518	0,808641975	0,8125	0,636942675	0,8
0,710691824	0,813793103	0,835820896	0,755555556	0,746153846	0,853658537	0,765100671	0,717557252
0,842975207	0,836956522	0,833333333	0,888111888	0,775	0,830769231	0,833333333	0,743902439
0,824817518	0,803738318	0,833333333	0,860759494	0,747368421	0,7875	0,803418803	0,734693878
0,748201439	0,794871795	0,774509804	0,801242236	0,718446602	0,777777778	0,776	0,719626168
0,95	0,956521739	0,923076923	0,975206612	0,93220339	0,891891892	0,923076923	0,920634921
0,691176471	0,780683761	0,670103093	0,737179487	0,752293578	0,760869565	0,691666667	0,682242991
0,751879699	0,779816514	0,818181818	0,790849673	0,784313725	0,813953488	0,739130435	0,747572816
0,635714286	0,64957265	0,709090909	0,551724138	0,808	0,766990291	0,629032258	0,777777778
0,815789474	0,771084337	0,805555556	0,833333333	0,807692308	0,754385965	0,8	0,727272727
0,612244898	0,609756098	0,739837398	0,503355705	0,817518248	0,793103448	0,654411765	0,807142857
0,813432836	0,833333333	0,777777778	0,844155844	0,768421053	0,841463415	0,840336134	0,729166667
0,716535433	0,631578947	0,747252747	0,671532847	0,79	0,746835443	0,720720721	0,776990299
0,818897638	0,83	0,705128205	0,858108108	0,786516854	0,837837838	0,837837838	0,730337079
NA	0,675 NA	0,756521739	0,593333333	0,780487805	0,757281553	0,609756098	0,76
		0,804347826	0,630769231	0,630769231	0,806122449	0,606060606	0,792079208
		NA	0,744186047 NA	0,744186047	0,83908046	0,792079208	0,795454545
				0,858108108 NA	0,795081967	0,785018868	0,816326531
					0,788732394 NA	0,788732394	0,701149425
						0,755813953	0,786666667
		0,804347826 NA	0,756525	0,795081967	0,788732394	0,755813953	0,803571429
			0,792079208	0,642857143	0,783018868	0,755813953 NA	0,803571429 NA
			0,795454545	0,816326531	0,701149425	0,786666667	0,754237288
			0,760416667	0,823899371	0,727272727	0,761904762	0,802816901
			0,841269841	0,955555556	0,84057971	0,862745098	0,877777778
			0,688888889	0,776315789	0,774509804	0,759036145	0,762711864
			0,880597015	0,932835821	0,876712329	0,909090909	0,892473118
			0,863013699	0,944055944	0,831168831	0,9375	0,952830189
			0,805970149	0,919708029	0,757142857	0,796296296	0,875
			0,920634921	0,96969697	0,863636364	0,94	0,945054945
			0,846153846	0,916666667	0,794117647	0,867924528	0,892473118
			0,852941176	0,918518519	0,819444444	0,894736842	0,907216495
			0,948275862	0,959677419	0,885245902	0,930232558	0,927710843
			0,919354839	0,928571429	0,911764706	0,844444444	0,895348837
			0,860465116	0,929032258	0,719512195	0,878378378	0,864864865
			0,775	0,814285714	0,779069767	0,779411765	0,822429907
			0,981132075	0,991735537	0,966101695	0,945945946	0,948717949
			0,850746269	0,901515152	0,864864865	0,892857143	0,894736842
			0,915254237	0,952380952	0,830665574	0,860465116	0,891566265
			0,777777778	0,875968992	0,816901408	0,734693878	0,793103448
			0,757009346	0,5	0,88	0,783505155	0,647058824
			0,711340206	0,698529412	0,816326531	0,810126582	0,754545455
			0,731707317	0,797202797	0,793478261	0,797297297	0,831858407
			0,902439024	0,917808219	0,845238095	0,880597015	0,897196262
			0,961538462	0,991735537	0,929824561	0,916666667	0,948717949
			0,914285714	0,933333333	0,779411765	0,910714286	0,893617021
			0,828947368	0,862318841	0,829268293	0,84375	0,885714286
			0,906666667	0,965517241	0,873417722	0,953125	0,942307692
			0,741935484	0,576923077	0,851851852	0,725	0,693693694
			0,93220339	0,968503937	0,888888889	0,956521739	0,954022989
			0,872881356	0,817647059	0,782608696	0,854368932	0,798507463
			0,883116883	0,850746269	0,8375	0,85483871	0,848484848
			0,86440678	0,911290323	0,825396825	0,893617021	0,908045977
			0,968253968	0,976923077	0,857142857	0,936170213	0,918604651
			0,75862069	0,826666667	0,81443299	0,792207792	0,796460177
			0,9125	0,952702703	0,853658537	0,892307692	0,925233645
			0,876923077	0,955555556	0,823529412	0,862745098	0,913978495
			0,766666667	0,806722889	0,85915493	0,717391304	0,827586207
			0,774193548	0,809917355	0,878378378	0,755102041	0,804597701
			0,876712329	0,943661972	0,858974359	0,936507937	0,932038835
			0,909090909	0,951724138	0,833333333	0,938461538	0,870588235
			0,933333333	0,979310345	0,898734177	0,968253968	0,941176471
			0,911111111	0,922077922	0,793103448	0,878378378	0,904347826
			0,853333333	0,867647059	0,792207792	0,85483871	0,86
			0,859649123	0,900826446	0,838709677	0,75	0,851851852
			0,702702703	0,688	0,842696629	0,672131148	0,734693878
			0,815789474	0,871428571	0,817073171	0,863636364	0,82
			0,869565217	0,794326241	0,747126437	0,774647887	0,773584906
			0,91954023	0,942028986	0,866666667	0,894736842	0,907216495
			0,846153846	0,908396947	0,861111111	0,867924528	0,880434783
			0,859649123	0,944444444	0,857142857	0,913043478	0,943181818
			0,833333333	0,925925926	0,8	0,851851852	0,870967722
			0,896103896	0,922535211	0,835443038	0,90625	0,902912621

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UZ.P061	UZ.P063	UZ.P064	UZ.P124	UZ.P127	UZ.P128	UZ.P129	UZ.P130
0,6	0,772727273	0,596330275	0,854166667	0,82	0,776595745	0,880434783	0,829787234
0,785714286	0,885416667	0,666666667	0,666666667	0,896226415	0,871287129	0,9375	0,887755102
0,8	0,717948718	0,8125	0,869565217	0,846153846	0,787234043	0,902439024	0,790697674
0,632075472	0,746835443	0,615384615	0,865168539	0,840425532	0,76744186	0,853658537	0,78313253
0,771186441	0,887640449	0,736842105	0,913978495	0,91	0,872340426	0,931818182	0,89010989
0,62962963	0,771084337	0,586538462	0,857142857	0,808510638	0,73255814	0,885057471	0,818181818
0,638095238	0,772151899	0,621359223	0,862068966	0,824175824	0,804597701	0,891566265	0,79268922
0,574468085	0,705882353	0,628865979	0,875	0,819277108	0,733333333	0,893333333	0,8
0,792079208	0,882352941	0,75257732	0,852941176	0,938271605	0,830895915	0,924242424	0,869565217
0,65625	0,76119403	0,707070707	0,851351351	0,76	0,732394366	0,885714286	0,819444444
0,699115044	0,78313253	0,648148148	0,855555556	0,855670103	0,8	0,88372093	0,842696629
0,633333333	0,694915254	0,673913043	0,820895222	0,808219178	0,727272727	0,857142857	0,784615385
0,614583333	0,757142857	0,625	0,858974359	0,772151899	0,746666667	0,845070423	0,780821918
0,796116505	0,852941176	0,805825243	0,918918919	0,939759036	0,785714286	0,926470588	0,904109589
0,696202532	0,674418605	0,771084337	0,907407407	0,86440678	0,79245283	0,893617021	0,82
0,621052632	0,692307692	0,673469388	0,84	0,782051282	0,773333333	0,84057971	0,824324324
0,70212766	0,711864407	0,739583333	0,885714286	0,837837838	0,76119403	0,85483871	0,818181818
0,711340206	0,704918033	0,694736842	0,890410959	0,844155844	0,788732394	0,878787879	0,826086957
0,635416667	0,768115942	0,659793814	0,84	0,797468354	0,722222222	0,857142857	0,774647887
0,714285714	0,709090909	0,752688172	0,762711864	0,772727273	0,7	0,8	0,783333333
0,8125	0,775	0,794871795	0,866666667	0,865384615	0,727272727	0,871794872	0,840909091
0,78	0,929577465	0,765306122	0,945945946	0,963855422	0,878378378	0,971014493	0,916666667
0,844155844	0,771428571	0,857142857	0,928571429	0,918367347	0,837209302	0,882352941	0,902439024
0,851851852	0,794871795	0,805194805	0,860465116	0,903846154	0,85106383	0,923076923	0,886363636
0,720930233	0,836363636	0,747126437	0,918032787	0,825396825	0,754385965	0,843137255	0,862068966
0,723809524	0,777777778	0,6	0,831168831	0,886363636	0,766233766	0,847222222	0,815789474
0,758823529	0,89261745	0,734939759	0,922580645	0,919753086	0,868421053	0,933333333	0,901315789
0,725352113	0,855932203	0,75862069	0,904	0,901515152	0,836065574	0,916666667	0,867768595
0,681818182	0,785	0,662790968	0,857142857	0,857142857	0,758064516	0,839285714	0,8
0,587628866	0,7	0,612244898	0,8375	0,78313253	0,710526316	0,853333333	0,807692308
0,660714286	0,804597701	0,62037037	0,884210526	0,824742268	0,819148936	0,887640449	0,822222222
0,934210526	0,870967742	0,933333333	0,806451613	0,977272727	0,864864865	0,928571429	0,911764706
0,683760684	0,75862069	0,583333333	0,842105263	0,854368932	0,789473684	0,904255319	0,829787234
0,697247706	0,784810127	0,694444444	0,886363636	0,847826087	0,743902439	0,8625	0,833333333
0,744360902	0,836538462	0,692913386	0,891891892	0,8034188	0,846846847	0,925925926	0,871559633
0,738636364	0,818181818	0,735632184	0,824561404	0,846153846	0,8	0,823529412	0,781818182
0,783783784	0,901639344	0,756944444	0,929133858	0,925373134	0,872	0,925	0,903225806
0,663366337	0,746478873	0,618556701	0,802631579	0,807228916	0,769230769	0,849315068	0,802631579
0,758928571	0,865853659	0,710280374	0,895348837	0,915789474	0,80952381	0,926829268	0,855421687
0,673684211	0,709677419	0,684210526	0,845070423	0,783783784	0,757142857	0,897058824	0,776119403
0,782608696	0,890909091	0,781021898	0,931034483	0,918032787	0,868421053	0,926605505	0,912280702
0,783783784	0,8875	0,759259259	0,916666667	0,923913043	0,843373494	0,909090909	0,890243902
0,760416667	0,841269841	0,688888889	0,880597015	0,863013699	0,805970149	0,920634921	0,846153846
0,823899371	0,955555556	0,776315789	0,932835821	0,944055944	0,919708029	0,969696967	0,916666667
0,727272727	0,84057971	0,774509804	0,876712329	0,831168831	0,757142857	0,863636364	0,794117647
0,761904762	0,862745098	0,759036145	0,909090909	0,9375	0,796296296	0,94	0,867924528
0,754237288	0,877777778	0,762711864	0,892473118	0,952830189	0,875	0,945054945	0,892473118
0,702970297	0,802816901	0,686868687	0,898734177	0,8125	0,756756757	0,873239437	0,808219178
NA	0,759493671	0,584158416	0,863636364	0,813186813	0,764705882	0,865853659	0,780487805
0,759493671 NA	0,74025974 NA	0,875	0,79245283 NA	0,875	0,770833333	0,880952381	0,8
0,584158416	0,74025974 NA	0,848837209 NA	0,848837209	0,836956522	0,804597701	0,864197531	0,848837209
0,863636364	0,875	0,836956522	0,79245283 NA	0,79245283	0,83921569	0,775	0,833333333
0,813186813	0,784313725	0,804597701	0,803921569	0,767857143 NA	0,767857143	0,8125	0,745098039
0,764705882	0,770833333	0,864197531	0,775	0,8125	0,772727273 NA	0,772727273	0,70212766
0,865853659	0,880952381	0,848837209	0,833333333	0,745098039	0,70212766	0,743589744 NA	0,743589744
0,780487805	0,8	0,864197531	0,795918367	0,824561404	0,814814815	0,869565217	0,795918367
0,829545455	0,8125	0,813953488	0,833333333	0,780487805	0,880952381	0,833333333	0,8
0,868421053	0,75	0,866666667	0,833333333	0,780487805	0,76744186	0,861111111	0,88372093
0,891566265	0,820512821	0,903614458	0,857142857	0,901960784	0,78268657	0,77961017	0,746031746
0,744897959	0,716666667	0,767676768	0,80330303	0,720588235	0,746208696	0,857142857	0,746031746
0,946666667	0,9	0,70212766	0,820895522	0,774647887	0,782608696	0,88	0,939393939
0,8	0,782608696	0,797619048	0,870967742	0,976190476	0,888888889	0,785714286	0,816326531
0,858974359	0,771428571	0,886075949	0,875	0,754716981	0,714285714	0,774193548	0,815789474
0,8	0,808510638	0,78313253	0,884615385	0,842105263	0,74	0,840909091	0,791666667
0,863309353	0,990909091	0,837037037	0,95412844	0,974789916	0,9375	0,980952381	0,95412844
0,844827586	0,926829268	0,757009346	0,815789474	0,860465116	0,827160494	0,893333333	0,831168831
0,759615385	0,863013699	0,693877551	0,75	0,726027397	0,75	0,852941176	0,802816901
0,87254902	0,868852459	0,86	0,816666667	0,765625	0,733333333	0,814814815	0,796610169
0,932432432	0,862068966	0,945945946	0,870967742	0,897435897	0,918918919	0,833333333	0,870967742
0,78313253	0,829787234	0,80952381	0,733333333	0,796296296	0,76	0,780487805	0,760869665
0,8125	0,885245902	0,79787234	0,75	0,818181818	0,75	0,788461538	0,793103448
0,885416667	0,890909091	0,884210526	0,6	0,816666667	0,740740741	0,808510638	0,788461538
0,816666667	0,978723404	0,825	0,934782609	0,918367347	0,892473118	0,941860465	0,911111111
0,913580247	0,923076923	0,9125	0,705882353	0,761904762	0,833333333	0,84375	0,871794872
0,746031746	0,88	0,819548872	0,848484848	0,849056604	0,797979798	0,873684211	0,824742268
0,831578947	0,898305085	0,87755102	0,883333333	0,913043478	0,838709677	0,888888889	0,844827586
0,864197531	0,85	0,848101266	0,857142857	0,755555556	0,707317073	0,828571429	0,769230769
0,860759494	0,842105263	0,901234568	0,756756757	0,772727273	0,785714286	0,78125	0,789473684
0,779816514	0,870122987	0,718446602	0,797297297	0,7875	0,746666667	0,811594203	0,763888889
0,857142857	0,9	0,867346939	0,807017544	0,830769231	0,822580645	0,890909091	0,827586207
0,804878049	0,761904762	0,831325301	0,8	0,807692308	0,744880851	0,694444444	0,714285714
0,862068966	0,960784314	0,819277108	0,921568627	0,93220339	0,888888889	0,909090909	0,854166667
0,877777778	0,9	0,876404494	0,882352941	0,951612903	0,851851852	0,913043478	0,86
0,849462366	0,849056604	0,860215054	0,714285714	0,775862069	0,740740741	0,833333333	0,833333333
0,815217391	0,788461538	0,85106383	0,75	0,74137931	0,75	0,773584906	0,773584906
0,882978723	0,865384615	0,869565217	0,729166667	0,810344828	0,821428571	0,8	0,826923077
0,817307692	0,833333333	0,803921569	0,765625	0,720588235	0,8	0,819672131	0,765625
0,831578947	0,916666667	0,842105263	0,735849057	0,828125	0,75862069	0,846153846	0,781818182
0,875	0,871794872	0,858974359	0,820512821	0,85106383	0,756097561	0,818181818	0,789473684
0,81372549	0,943661972	0,775510204	0,915492958	0,9375	0,876712329	0,955223881	0,915492958
0,802083333	0,810344828	0,774193548	0,775862069	0,784615385	0,774193548	0,79245283	0,732142857
0,754901961	0,875	0,752475248	0,863013699	0,833333333	0,842105263	0,882352941	0,830985915
0,788235294	0,787234043	0,813953488	0,770833333	0,759259259	0,745098039	0,761904762	0,770833333
0,850574713	0,8	0,848837209	0,782608696	0,836363636	0,729166667	0,775	0,755555556
0,846153846	0,810810811	0,8875	0,647058824	0,8	0,756097561	0,78125	0,756756757
0,8	0,782608696	0,78313253					

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Table with 10 columns labeled UZ.P131, UZ.P132, UZ.P133, UZ.P115, UZ.P134, UZ.P135, UZ.P136, and UZ.P137. Each column contains a vertical list of numerical values. The table is a large data matrix representing Jaccard indices between various categories.

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UZ.P138	UZ.P139	UZ.P140	UZ.P141	UZ.P142	UZ.P143	UZ.P116	UZ.P144
0,857142857	0,909090909	0,848	0,801724138	0,80952381	0,927710843	0,752808989	0,819047619
0,855670103	0,608333333	0,598039216	0,698113208	0,862385321	0,976744186	0,910891089	0,861111111
0,875	0,952380952	0,897435897	0,890410959	0,883333333	0,851851852	0,847826087	0,9
0,788235294	0,864285714	0,76146789	0,737864078	0,851485149	0,933333333	0,813953488	0,789473684
0,773809524	0,663865546	0,62244898	0,785046729	0,873786408	0,961038961	0,926315789	0,85
0,781609195	0,890410959	0,810344828	0,733333333	0,785714286	0,949367089	0,779069767	0,854368932
0,865168539	0,902097902	0,863247863	0,803738318	0,882352941	0,96	0,823529412	0,892156863
0,773333333	0,935251799	0,862385321	0,81	0,846153846	0,938461538	0,802631579	0,804597701
0,769230769	0,67961165	0,666666667	0,797752809	0,865853659	0,924528302	0,887323944	0,835443038
0,87012987	0,940740741	0,855769231	0,774193548	0,80952381	0,915254237	0,771428571	0,835294118
0,779069767	0,807407407	0,765765766	0,788990826	0,82	0,948717949	0,844444444	0,83
0,808823529	0,937984496	0,87	0,813186813	0,810126582	0,905660377	0,787878788	0,8375
0,818181818	0,911111111	0,871559633	0,795918367	0,831460674	0,920634921	0,783783784	0,829545455
0,738461538	0,778761062	0,836734694	0,864583333	0,895348837	0,946428571	0,934210526	0,894117647
0,849056604	0,955357143	0,892857143	0,842105263	0,878787879	0,882352941	0,823529412	0,841269841
0,858974359	0,978873239	0,9	0,828282828	0,853932584	0,918032787	0,777777778	0,852272727
0,823529412	0,929133858	0,891089109	0,849462366	0,851851852	0,924528302	0,820895522	0,835443038
0,797101449	0,946969697	0,883495146	0,865979381	0,870588235	0,888888889	0,876712329	0,895348837
0,797297297	0,901515152	0,847619048	0,791666667	0,866666667	0,918032787	0,794520548	0,852272727
0,790322581	0,92629508	0,824175824	0,8	0,826666667	0,869565217	0,745762712	0,791666667
0,76744186	0,920792079	0,851351351	0,84057971	0,862068966	0,846153846	0,790697674	0,859649123
0,769230769	0,64	0,682352941	0,797752809	0,892857143	0,982142857	0,960526316	0,891666265
0,880952381	0,948979592	0,946666667	0,927536232	0,928571429	0,909090909	0,930232558	0,964912281
0,866666667	0,940594059	0,878378378	0,916666667	0,915254237	0,88	0,863636364	0,894736842
0,716981132	0,882882883	0,863636364	0,8125	0,875	0,928571429	0,844827586	0,888888889
0,789473684	0,84375	0,796116505	0,833333333	0,846153846	0,938461538	0,8625	0,844444444
0,850340136	0,58490566	0,694805195	0,804878049	0,883435583	0,971830986	0,901960784	0,86875
0,879032258	0,765822785	0,86	0,839160839	0,857142857	0,954954955	0,87804878	0,881481481
0,825396825	0,916666667	0,847826087	0,865168539	0,824324324	0,9375	0,822580645	0,837837838
0,797468354	0,929078014	0,855855856	0,767676768	0,826086957	0,925373134	0,794871795	0,770114943
0,838709677	0,845070423	0,761061947	0,794642857	0,836538462	0,950617284	0,824175824	0,846153846
0,945945946	0,989361702	0,971014493	0,952380952	0,96	0,857142857	0,848484848	0,9375
0,782608696	0,791366906	0,690909091	0,769911504	0,831775701	0,952941176	0,878787879	0,807692308
0,80952381	0,818181818	0,788990826	0,801886792	0,810526316	0,930555556	0,807228916	0,808510638
0,80952381	0,649253731	0,634782609	0,774193548	0,859604132	0,948453608	0,892857143	0,858333333
0,810344828	0,883928571	0,825581395	0,814814815	0,828571429	0,904761905	0,807017544	0,791044776
0,810344828	0,633802817	0,721804511	0,795620438	0,889705882	0,982300885	0,9296875	0,872180451
0,851851852	0,920289855	0,853211009	0,811881188	0,860215054	0,923076923	0,820512821	0,793103448
0,817073171	0,714285714	0,696969697	0,807692308	0,829787234	0,957746479	0,88372093	0,815217391
0,849315068	0,888888889	0,791666667	0,78021978	0,817073171	0,929824561	0,847222222	0,8
0,822429907	0,610687023	0,694214876	0,840909091	0,879032258	0,97	0,913043478	0,859504132
0,792207792	0,657657658	0,711340206	0,787878788	0,860215054	0,970588235	0,917647059	0,833333333
0,777777778	0,757009346	0,717647059	0,731707317	0,902439024	0,961538462	0,914285714	0,828947368
0,875968992	0,5	0,698529412	0,797202797	0,917808219	0,991735537	0,933333333	0,862318841
0,816901408	0,88	0,816326531	0,793478261	0,845238095	0,929824561	0,779411765	0,829268293
0,734693878	0,783505155	0,810126582	0,797297297	0,880597015	0,916666667	0,910714286	0,84375
0,793103448	0,647058824	0,754545455	0,831858407	0,897196262	0,948717949	0,893617021	0,885714286
0,813333333	0,849206349	0,847619048	0,778947368	0,840909091	0,935483871	0,842105263	0,839080046
0,8	0,863309353	0,844827586	0,759615385	0,87254902	0,932432432	0,78313253	0,8125
0,808510638	0,990990991	0,926829268	0,863013699	0,868852459	0,862068966	0,829787234	0,885245902
0,78313253	0,837037037	0,757009346	0,693877551	0,86	0,945945946	0,80952381	0,79787234
0,884615385	0,95412844	0,815789474	0,75	0,816666667	0,870967742	0,733333333	0,839080046
0,842105263	0,974789916	0,860465116	0,726027397	0,765625	0,897435897	0,796296296	0,818181818
0,74	0,9375	0,827160494	0,75	0,733333333	0,918918919	0,76	0,75
0,840909091	0,980952381	0,893333333	0,852941176	0,814814815	0,833333333	0,780487805	0,788461538
0,791666667	0,95412844	0,831168831	0,802816911	0,796610169	0,870967742	0,760869565	0,793103448
0,87037037	0,955357143	0,879518072	0,857142857	0,911764706	0,882352941	0,775510204	0,859375
0,842105263	0,979591837	0,914285714	0,85483871	0,924528302	0,764705882	0,805555556	0,901960784
0,80952381	0,84	0,891891892	0,884057971	0,894736842	0,8675	0,804878049	0,872727273
0,791044776	0,962121212	0,835051546	0,772727273	0,763157895	0,905660377	0,769230769	0,82278481
0,791044776	0,829059829	0,715909091	0,65	0,712328767	0,905660377	0,75	0,76
0,911764706	1	0,954545455	0,915254237	0,936170213	0,833333333	0,875	0,934782609
0,775510204	0,935779817	0,820512821	0,774647887	0,841269841	0,84375	0,744680851	0,819672131
0,794871795	0,97	0,902777778	0,861538462	0,909090909	0,857142857	0,820512821	0,886792453
0,862745098	0,862745098	0,713043478	0,818181818	0,808219178	0,911764706	0,907407407	0,819672131
0,789473684	0,713043478	0,720430108	0,734939759	0,717948718	0,938461538	0,848101266	0,933333333
0,808219178	0,818181818	0,720430108	0,734939759	0,717948718	0,915254237	0,735294118	0,697368421
0,876923077	0,925	0,938461538	0,915254237	0,735294118	0,913043478	0,8	0,712121212
0,911764706	1	0,938461538	0,915254237	0,735294118	0,913043478	0,875	0,911111111
0,907407407	0,963963964	0,848101266	0,735294118	0,8	0,8	0,875	0,732142857
0,819672131	0,933333333	0,746987952	0,697368421	0,712121212	0,911111111	0,732142857	0,716666667
0,951612903	0,991666667	0,831325301	0,756756757	0,7	0,923076923	0,745098039	0,85908039
0,80952381	0,485436893	0,68	0,79047619	0,881188119	0,959459459	0,935483871	0,868686869
0,954545455	0,98	0,885714286	0,859375	0,82	0,904761905	0,815789474	0,84
0,862745098	0,813793103	0,816	0,818181818	0,805555556	0,931034483	0,802083333	0,79245283
0,810344828	0,831775701	0,902173913	0,88372093	0,906666667	0,904761905	0,885245902	0,875
0,80952381	0,918367347	0,845070423	0,796875	0,854545455	0,92	0,833333333	0,851851852
0,88372093	0,990291262	0,888888889	0,828125	0,849056604	0,80952381	0,763157895	0,867924528
0,753424658	0,8515625	0,663043478	0,659090909	0,716049383	0,920634921	0,767123288	0,7125
0,923076923	0,967213115	0,853932584	0,772151899	0,723076923	0,906976744	0,830508475	0,776119403
0,833333333	0,962962963	0,871794873	0,830985915	0,810344828	0,777777778	0,720930233	0,785714286
0,836734694	0,758241758	0,746478873	0,764705882	0,870967742	0,9375	0,943396226	0,887096774
0,744680851	0,81443299	0,786666667	0,853333333	0,892307692	0,909090909	0,905660377	0,836065574
0,879310345	0,983193277	0,817073171	0,805194805	0,721311475	0,923076923	0,769230769	0,716666667
0,86440678	0,983471074	0,792682927	0,72972973	0,823529412	0,9	0,705882353	0,784615385
0,913793103	0,991525424	0,827160494	0,783783784	0,711864407	0,947368421	0,807692308	0,728813559
0,85915493	0,946153846	0,810526316	0,698795181	0,72972973	0,925925926	0,787878788	0,76
0,904761905	0,883928571	0,721518987	0,608696562	0,610169492	0,930232558</		

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UZ.P145	UZ.P146	UZ.P147	UZ.P148	UZ.P149	UZ.P150	UZ.P151	UZ.P152
0.841584158	0.882352941	0.886363636	0.782608696	0.836538462	0.891304348	0.901098901	0.767241379
0.945454545	0.651785714	0.956989247	0.863945578	0.890825669	0.89010989	0.946808511	0.796610169
0.865384615	0.931818182	0.918918919	0.842105263	0.894736842	0.842105263	0.833333333	0.881578947
0.826086957	0.846774194	0.901234568	0.776923077	0.845360825	0.851851852	0.890243902	0.747663551
0.961538462	0.723214286	0.952941176	0.856115108	0.88	0.905882353	0.929411765	0.792792793
0.878787879	0.876923077	0.917647059	0.763358779	0.883495146	0.857142857	0.853658537	0.754545455
0.872340426	0.88976378	0.9125	0.819548872	0.87755102	0.890243902	0.8875	0.810810811
0.897727273	0.909090909	0.901408451	0.834645669	0.865168539	0.891891892	0.873239437	0.85046729
0.9375	0.709677419	0.935483871	0.837606838	0.873417722	0.852459016	0.9375	0.738636364
0.85	0.895652174	0.859375	0.788135593	0.870588235	0.833333333	0.828125	0.808080808
0.87755102	0.821138211	0.929411765	0.833333333	0.871287129	0.855421687	0.892857143	0.752293578
0.837837838	0.909890991	0.883333333	0.848739496	0.846153846	0.85483871	0.85	0.808510638
0.870588235	0.870689655	0.945205479	0.764705882	0.80952381	0.808823529	0.803030303	0.838095238
0.964285714	0.767676768	0.96969697	0.830508475	0.8625	0.857142857	0.939393939	0.835051546
0.9	0.925531915	0.906976744	0.875	0.888888889	0.914893617	0.833333333	0.864197531
0.86746988	0.951219512	0.863636364	0.830645161	0.886363636	0.887323944	0.850746269	0.823529412
0.881578947	0.909090909	0.935483871	0.763636364	0.844155844	0.870967742	0.866666667	0.819148936
0.913580247	0.901785714	0.938461538	0.801724138	0.864197531	0.859375	0.85483871	0.824742268
0.880952381	0.868421053	0.928571429	0.81147541	0.833333333	0.838235294	0.867647059	0.8
0.84057971	0.883495146	0.849056604	0.764150943	0.782608696	0.796296296	0.833333333	0.738095238
0.862745098	0.879518072	0.916666667	0.87628866	0.807692308	0.805555556	0.861111111	0.849315068
0.988095238	0.651685393	0.952380952	0.866666667	0.873417722	0.90625	0.985074627	0.793478261
0.916666667	0.951807229	0.935483871	0.880434783	0.923076923	0.878787879	0.870967742	0.916666667
0.923076923	0.941860465	0.878787879	0.885416667	0.888888889	0.948717949	0.885714286	0.861111111
0.971830986	0.838709677	0.981132075	0.830188679	0.884057971	0.816326531	0.857142857	0.821428571
0.885057471	0.821428571	0.931506849	0.825396825	0.83908046	0.845070423	0.904109589	0.794117647
0.93902439	0.633986928	0.945578231	0.783783784	0.866242038	0.910958904	0.939189189	0.80952381
0.892307692	0.790540541	0.940677966	0.75	0.84375	0.897435897	0.905172414	0.843537415
0.887323944	0.893203883	0.909090909	0.818181818	0.797101449	0.877192982	0.830188679	0.820224719
0.837209302	0.902439024	0.890410959	0.811023622	0.844444444	0.835616438	0.847222222	0.8
0.913461538	0.825396825	0.931818182	0.802919708	0.841584158	0.847058824	0.883720903	0.791304348
0.9	0.987179487	1	0.93258427	0.909090909	0.925925926	0.92	0.955223881
0.875	0.774193548	0.934782609	0.825174825	0.889908257	0.879120879	0.924731183	0.745614035
0.870967742	0.813558322	0.925	0.721311475	0.852631579	0.846153846	0.9	0.775700935
0.925619835	0.658536585	0.942857143	0.801324503	0.84427586	0.861386139	0.913461538	0.752
0.878787879	0.864583333	0.9	0.820754717	0.818181818	0.770833333	0.836734684	0.795180723
0.963768116	0.641221374	0.966666667	0.779874214	0.804878049	0.915254237	0.95	0.818181818
0.819277108	0.882352941	0.887323944	0.768595041	0.827586207	0.863013699	0.85915493	0.796116505
0.9375	0.719626168	0.935897436	0.832061069	0.860215054	0.87012987	0.9375	0.792452363
0.858974359	0.862385321	0.870967742	0.833333333	0.851851852	0.861538462	0.875	0.736263736
0.943548387	0.682539683	0.962962963	0.77027027	0.875	0.873786408	0.934579439	0.837037037
0.957446809	0.656565657	0.960526316	0.808	0.813953488	0.863013699	0.92	0.796116505
0.906666667	0.741935484	0.93220339	0.872881356	0.883116883	0.86440678	0.968253968	0.75862069
0.965517241	0.576923077	0.968503937	0.817647059	0.850746269	0.911290323	0.976923077	0.826666667
0.873417722	0.851851852	0.888888889	0.782608696	0.8375	0.825396825	0.857142857	0.81443299
0.953125	0.725	0.956521739	0.854368932	0.85483871	0.893617021	0.936170213	0.792207792
0.942307692	0.693693694	0.954022989	0.798507463	0.848484848	0.908045977	0.918604571	0.796460177
0.906976744	0.837837838	0.928571429	0.791666667	0.833333333	0.803030303	0.884057971	0.834951456
0.885416667	0.816666667	0.913580247	0.746031746	0.831578947	0.864197531	0.860759494	0.779816514
0.890909091	0.978723404	0.923076923	0.88	0.898305085	0.85	0.842105263	0.87012987
0.884210526	0.825	0.9125	0.819548872	0.87755102	0.848101266	0.901234568	0.718446602
0.6	0.934782609	0.705882353	0.848484848	0.883333333	0.857142857	0.756756757	0.797297297
0.816666667	0.918367347	0.761904762	0.849056604	0.913043478	0.755555556	0.772727273	0.7875
0.740740741	0.892473118	0.833333333	0.797979798	0.838709677	0.707317073	0.785714286	0.746666667
0.808510638	0.941860465	0.84375	0.873684211	0.888888889	0.828571429	0.78125	0.811594203
0.788461538	0.911111111	0.871794872	0.824742268	0.84427586	0.769230769	0.789473684	0.763888889
0.821428571	0.913978495	0.880952381	0.885714286	0.833333333	0.813953488	0.860465116	0.789473684
0.886363636	0.95	0.928571429	0.913043478	0.895833333	0.785714286	0.769230769	0.863636364
0.921568627	0.941176471	0.971428571	0.895833333	0.907407407	0.857142857	0.882352941	0.875
0.837837838	0.9	0.824561404	0.798245614	0.888888889	0.796610169	0.767857143	0.697674419
0.853333333	0.777777778	0.901639344	0.787610619	0.846153846	0.775862069	0.85	0.65060241
0.923076923	0.986842105	0.954545455	0.95505618	0.930232558	0.92	0.863636364	0.9375
0.796296296	0.850574713	0.85	0.828282828	0.830508475	0.684210526	0.8	0.736111111
0.893617021	0.93902439	0.935483871	0.868131868	0.857142857	0.766666667	0.75	0.852941176
0.951612903	0.80952381	0.809545455	0.862745098	0.810344828	0.80952381	0.883720903	0.753424658
0.991666667	0.485436983	0.98	0.813793103	0.831775701	0.918367347	0.990291262	0.8515625
0.831325301	0.68	0.885714286	0.816	0.902173913	0.845070423	0.888888889	0.663043478
0.756756757	0.79047619	0.859375	0.818181818	0.88372093	0.796875	0.828125	0.659090909
0.7	0.881188119	0.82	0.805555556	0.906666667	0.854545455	0.849056604	0.716049383
0.923076923	0.959459459	0.904761905	0.931034483	0.904761905	0.92	0.80952381	0.920634921
0.745098039	0.935483871	0.815789474	0.802083333	0.885245902	0.833333333	0.763157895	0.767123288
0.716666667	0.868686869	0.84	0.79245283	0.875	0.851851852	0.867924528	0.7125
NA	0.96039604	0.725	0.847619048	0.895522388	0.87755102	0.847826087	0.753246753
0.96039604	NA	0.951219512	0.761904762	0.815217391	0.846153846	0.952380952	0.787037037
0.725	0.951219512	NA	0.903225806	0.942307692	0.875	0.827586207	0.833333333
0.847619048	0.761904762	NA	0.786407767	0.786407767	0.847826087	0.869565217	0.72173913
0.895522388	0.815217391	NA	0.847826087	0.843137255	0.843137255	0.903846154	0.837209302
0.87755102	0.846153846	NA	0.847826087	0.843137255	0.8125	0.8125	0.826086957
0.847826087	0.952380952	NA	0.869565217	0.903846154	0.8125	0.8125	0.871428571
0.753246753	0.787037037	NA	0.72173913	0.837209302	0.826086957	0.871428571	0.688311688
0.684210526	0.910891089	NA	0.788461538	0.871428571	0.846153846	0.862745098	0.774647887
0.826923077	0.921348315	NA	0.795698925	0.839285714	0.820512821	0.810810811	0.82105263
0.983606557	0.756410256	NA	0.913461538	0.842105263	0.825	0.928571429	0.846153846
0.967741935	0.7825	NA	0.977272727	0.85	0.807017544	0.886363636	0.906976744
0.6	0.928571429	NA	0.756097561	0.801980198	0.861538462	0.854166667	0.847826087
0.666666667	0.93	NA	0.822222222	0.828571429	0.848484848	0.787234043	0.804347826
0.612244898	0.95959596	NA	0.8775	0.821871778	0.909090909	0.872340426	0.840909091
0.71641791	0.919642857	NA	0.824561404	0.765765766	0.860759494	0.816666667	0.85
0.654545455	0.840425532	NA	0.777777778	0.842592593	0.885714286	0.82	0.86
0.872340426	0.871794872	NA	0.827586207	0.88172043	0.836734694	0.774193548	0.75862069
0.962962963	0.677777778	NA	0.951612903	0.884295521	0.871794872	0.868852459	0.953125
0.78125	0.822916667	NA	0.865384615	0.794392523	0.861111111	0.788461538	0.826923077
0.860759494	0.774509804	NA	0.890625	0.752212389	0.825	0.770491803	0.859375
0.705882353	0.936842105	NA	0.825	0.852941176	0.888888889	0.813953488	0.804878049
0.854545455	0.898676404	NA	0.842105263	0.86	0.883333333	0.8	0.756756757
0.675	0.939759036	NA	0.64	0.88172043	0.86	0.774193548	0.875
0.839285714	0.901098901	NA	0.789473684	0.84	0.904761905	0.80952381	0.736842105
0.822580645							

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UZ.P153	UZ.P117	UZ.P154	UZ.P155	UZ.P156	UZ.P157	UZ.P158	UZ.P159
0.849056604	0.826086957	0.91	0.89	0.793814433	0.833333333	0.87254902	0.8125
0.947826087	0.919191919	0.744186047	0.804347826	0.945454545	0.936936937	0.934579439	0.9
0.877192982	0.80952381	0.9375	0.918367347	0.843137255	0.849056604	0.903846154	0.880597015
0.835051546	0.807228916	0.863636364	0.840909091	0.813186813	0.829787234	0.847826087	0.772277228
0.943925234	0.9	0.795180723	0.756097561	0.930693069	0.942307692	0.960784314	0.912280702
0.873786408	0.827586207	0.904255319	0.856895652	0.831578947	0.835051546	0.87628866	0.778846154
0.900909099	0.858823529	0.898876404	0.888888889	0.860215054	0.863157895	0.88172043	0.838095238
0.879120879	0.810810811	0.927710843	0.903614458	0.858823529	0.835294118	0.882352941	0.810526316
0.928571429	0.882352941	0.737704918	0.725806452	0.896103896	0.925925926	0.949367089	0.902173913
0.817073171	0.814285714	0.909090909	0.911392405	0.835443038	0.794871795	0.860759494	0.826086957
0.904761905	0.83908046	0.827586207	0.844444444	0.910891089	0.88	0.909090909	0.844036697
0.87654321	0.777777778	0.931506849	0.904109589	0.821917808	0.826666667	0.864864865	0.8
0.877777778	0.808219178	0.886075949	0.846153846	0.814814815	0.833333333	0.894117647	0.782608696
0.917647059	0.885714286	0.855072464	0.791044776	0.9125	0.94047619	0.963414634	0.927083333
0.873015873	0.787234043	0.884615385	0.888888889	0.821428571	0.847457627	0.896551724	0.891891892
0.875	0.785714286	0.938271605	0.926829268	0.839506173	0.784810127	0.85	0.817204301
0.875	0.8125	0.915492958	0.902777778	0.835616438	0.808219178	0.878378378	0.797619048
0.905882353	0.784615385	0.933333333	0.876712329	0.9135800247	0.888888889	0.911392405	0.844444444
0.862068966	0.802816901	0.883116883	0.886075949	0.825	0.829268293	0.917647059	0.829787234
0.819444444	0.685185185	0.892307692	0.861538462	0.709677419	0.757575758	0.869565217	0.829268293
0.875	0.804878049	0.863636364	0.844444444	0.816326531	0.823529412	0.901960784	0.878787879
0.953488372	0.929577465	0.574074074	0.746031746	0.950617284	0.976470588	0.987804878	0.925531915
0.924528302	0.837837838	0.926829268	0.87804878	0.916666667	0.897959184	0.958333333	0.953846154
0.890909091	0.853658537	0.909090909	0.913043478	0.88	0.884615385	0.897959184	0.909090909
0.931506849	0.857142857	0.839285714	0.824561404	0.910447761	0.897058824	0.924242424	0.8875
0.891304348	0.842105263	0.844155844	0.818181818	0.845238095	0.862068966	0.895348837	0.822916667
0.93452381	0.914473684	0.839160839	0.833333333	0.93902439	0.926829268	0.938271605	0.895348837
0.888059701	0.893442623	0.876033058	0.896	0.892307692	0.868217054	0.916030534	0.865248227
0.894736842	0.771929825	0.907692308	0.876923077	0.855072464	0.890410959	0.884057971	0.869047619
0.846153846	0.786666667	0.904761905	0.880952381	0.80952381	0.8	0.860465116	0.791666667
0.907407407	0.857142857	0.833333333	0.861702128	0.87	0.85	0.89	0.837837838
0.957446809	0.90625	0.971428571	0.914285714	0.871794872	0.930232558	0.95	0.965517241
0.920353982	0.85106383	0.852631579	0.831578947	0.86407767	0.898148148	0.894230769	0.82300885
0.87755102	0.829268293	0.897727273	0.848837209	0.858695652	0.824175824	0.855555556	0.81372549
0.92	0.87962963	0.815533981	0.796116505	0.898305085	0.9	0.91524237	0.859375
0.838235294	0.839285714	0.842105263	0.827586207	0.825396825	0.865671642	0.892307692	0.831168831
0.942857143	0.928	0.805309735	0.798245614	0.932835821	0.933823529	0.939849624	0.895833333
0.842696629	0.797297297	0.941176471	0.904761905	0.790123457	0.795180723	0.843373494	0.8125
0.93	0.892857143	0.794871795	0.829268293	0.891304348	0.927835052	0.936170213	0.865384615
0.853658537	0.805970149	0.875	0.893333333	0.780821918	0.8625	0.87012987	0.833333333
0.961832061	0.920353982	0.817307692	0.786407767	0.926229508	0.927419355	0.951219512	0.902985075
0.915789474	0.901234568	0.75	0.739726027	0.934782609	0.936170213	0.945054945	0.882352941
0.9125	0.876923077	0.766666667	0.774193548	0.876712329	0.909090909	0.933333333	0.911111111
0.952702703	0.955555556	0.806722689	0.809917355	0.943661972	0.951724138	0.979310345	0.922077922
0.853658537	0.823529412	0.85915493	0.878378378	0.858974359	0.833333333	0.898734177	0.793103448
0.892307692	0.862745098	0.71791304	0.755102041	0.936507937	0.938461538	0.968253968	0.878378378
0.925233645	0.913978495	0.827586207	0.804597701	0.932038835	0.933333333	0.941176471	0.904347826
0.887640449	0.851351351	0.821917808	0.815533981	0.880952381	0.870588235	0.917647059	0.817204301
0.857142857	0.804878049	0.862068966	0.877777778	0.849462366	0.815217391	0.882978723	0.817307692
0.9	0.761904762	0.960784314	0.9	0.849056604	0.788461538	0.865384615	0.833333333
0.867346939	0.831325301	0.819277108	0.876404494	0.860215054	0.85106383	0.869565217	0.803921569
0.807017544	0.8	0.921568627	0.882352941	0.714285714	0.75	0.729166667	0.765625
0.830769231	0.807692308	0.93220339	0.951612903	0.775862069	0.74137931	0.810344828	0.720588235
0.822580645	0.744680851	0.888888889	0.851851852	0.740740741	0.75	0.821428571	0.8
0.890909091	0.694444444	0.909090909	0.913043478	0.833333333	0.765957447	0.8	0.819672131
0.827586207	0.714285714	0.854166667	0.86	0.833333333	0.773584906	0.826923077	0.765625
0.85483871	0.733333333	0.905660377	0.909090909	0.8	0.807017544	0.896551724	0.845070423
0.875	0.787878788	0.948717949	0.951219512	0.860465116	0.756097561	0.906976744	0.818181818
0.965517241	0.722222222	0.906976744	0.860465116	0.921568627	0.903846154	0.960784314	0.940298507
0.786666667	0.737704918	0.901408451	0.888888889	0.788732394	0.705882353	0.748286667	0.740740741
0.833333333	0.777777778	0.721311475	0.823529412	0.853333333	0.826666667	0.864864865	0.827586207
1	0.9	0.96969697	0.875	0.975609756	0.9	0.947368421	0.98245614
0.833333333	0.782608696	0.86	0.907407407	0.725490196	0.711538462	0.811320755	0.826086957
0.903846154	0.837837838	0.9	0.87804878	0.869565217	0.772727273	0.837209302	0.847457627
0.923076923	0.833333333	0.836734694	0.744680851	0.879310345	0.86440678	0.913793103	0.85915493
0.967213115	0.962962963	0.758241758	0.81443299	0.983193277	0.983471074	0.991525424	0.946153846
0.853932584	0.871794872	0.746478873	0.786666667	0.817073171	0.792682927	0.827160494	0.810526316
0.772151899	0.830985915	0.764705882	0.853333333	0.805194805	0.72972973	0.783783784	0.698795181
0.723076923	0.810344828	0.870967742	0.892307692	0.721311475	0.823529412	0.711864407	0.729272973
0.906976744	0.777777778	0.9375	0.909090909	0.923076923	0.9	0.947368421	0.925925926
0.830508475	0.720930233	0.943396226	0.905660377	0.769230769	0.705882353	0.807692308	0.787878788
0.776119403	0.785714286	0.887096774	0.836065574	0.716666667	0.784615385	0.728813559	0.76
0.684210526	0.826923077	0.983606557	0.967741935	0.6	0.666666667	0.612244898	0.71641791
0.910891089	0.921348315	0.756410256	0.7625	0.928571429	0.93	0.95959596	0.919642857
0.782608696	0.8	0.951219512	0.977272727	0.756097561	0.822222222	0.775	0.824561404
0.788461538	0.795698925	0.913461538	0.85	0.801980198	0.828571429	0.821782178	0.765765766
0.871428571	0.839285714	0.842105263	0.807017544	0.861538462	0.848484848	0.909090909	0.860759494
0.846153846	0.820512821	0.825	0.886363636	0.854166667	0.787234043	0.872340426	0.816666667
0.862745098	0.810810811	0.928571429	0.906976744	0.847826087	0.804347826	0.840909091	0.85
0.688311688	0.774647887	0.842105263	0.846153846	0.736842105	0.727272727	0.746666667	0.712643678
NA	0.821428571	0.953125	0.954545455	0.684210526	0.777777778	0.696428571	0.8
0.821428571	NA	0.895833333	0.87755102	0.826923077	0.833333333	0.907407407	0.850746269
0.953125	0.895833333	NA	0.782608696	0.950819672	NA	0.950819672	0.965517241
0.954545455	0.87755102	0.782608696	NA	0.950819672	NA	0.666666667	0.933333333
0.684210526	0.826923077	0.966666667	0.950819672	0.950819672	0.666666667	0.583333333	0.696969697
0.777777778	0.833333333	0.950819672	0.935483871	0.666666667	NA	0.62745098	0.686567164
0.696428571	0.907407407	0.965517241	0.949152542	0.583333333	0.62745098	NA	0.6875
0.7	0.850746269	0.901408451	0.933333333	0.696969697	0.686567164	0.6875	0.714285714
0.661016949	0.839285714</						

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UZ.P160	UZ.P161	UZ.P162	UZ.P163	UZ.P164	UZ.P165	UZ.P166	UZ.P167	UZ.P168	UZ.P169	UZ.P170	UZ.P171
0,858490566	0,876404494	0,88034188	0,853211009	0,776785714	0,79787234	0,87755102	0,863636364				
0,823529412	0,862068966	0,631578947	0,796116505	0,752293578	0,933333333	0,87628866	0,946808511				
0,875	0,833333333	0,910447761	0,824561404	0,820895522	0,804347826	0,893617021	0,864846865				
0,821052632	0,8625	0,803921569	0,791666667	0,732673267	0,790697674	0,797619048	0,848101266				
0,833333333	0,848101266	0,70212766	0,905660377	0,780952381	0,916666667	0,852272727	0,941860465				
0,838383838	0,853658537	0,853211009	0,833333333	0,752380952	0,824175824	0,818181818	0,880952381				
0,854166667	0,8875	0,857142857	0,8	0,788461538	0,827586207	0,835294118	0,8875				
0,865168539	0,873239437	0,878787879	0,833333333	0,818181818	0,792207792	0,8	0,84057971				
0,858974359	0,807017544	0,697368421	0,879518072	0,793103448	0,905405405	0,835820896	0,903225806				
0,8	0,846153846	0,884210526	0,795180723	0,782608696	0,794520548	0,802816901	0,846153846				
0,848484848	0,82278481	0,807692308	0,831683168	0,773584906	0,847826087	0,829545455	0,865853659				
0,846153846	0,85	0,913043478	0,794871795	0,847826087	0,794117647	0,746031746	0,789473684				
0,850574713	0,855072464	0,87755102	0,790697674	0,765957447	0,805194805	0,844155844	0,855072464				
0,87654321	0,870967742	0,825581395	0,869047619	0,861702128	0,893333333	0,857142857	0,939393939				
0,870967742	0,833333333	0,873239437	0,878787879	0,837837838	0,807692308	0,843137255	0,866363636				
0,847058824	0,884057971	0,951456311	0,813953488	0,836734694	0,783783784	0,791666667	0,850746269				
0,873417722	0,866666667	0,875	0,82278481	0,806818182	0,85915493	0,885714286	0,885245902				
0,917647059	0,873015873	0,914893617	0,814814815	0,8	0,849315068	0,826086957	0,85483871				
0,860465116	0,867647059	0,838709677	0,8	0,8	0,831168831	0,84	0,850746269				
0,816901408	0,811320755	0,894117647	0,76056338	0,75	0,774193548	0,803278689	0,811320755				
0,830188679	0,71875	0,875	0,842105263	0,8	0,8	0,756097561	0,794117647				
0,858974359	0,885245902	0,605633803	0,879518072	0,793103448	0,948051948	0,901408451	0,953846154				
0,923076923	0,870967742	0,8	0,909090909	0,857142857	0,857142857	0,902439024	0,939393939				
0,928571429	0,885714286	0,90625	0,836363636	0,865671642	0,893617021	0,911111111	0,916666667				
0,9	0,88	0,87012987	0,808823529	0,82278481	0,830508475	0,881355932	0,923076923				
0,825581395	0,84057971	0,806451613	0,779069767	0,806122449	0,851851852	0,8	0,857142857				
0,858974359	0,902097902	0,72972973	0,848101266	0,7875	0,924050633	0,848275862	0,931972789				
0,852713178	0,905172414	0,838235294	0,839694656	0,845070423	0,861788618	0,89516129	0,905172414				
0,878378378	0,872727273	0,879518072	0,824324324	0,821428571	0,828125	0,819672131	0,851851852				
0,831460674	0,863013699	0,86	0,826086957	0,762886598	0,769230769	0,82278481	0,797101449				
0,818181818	0,857142857	0,813084112	0,825242718	0,768518519	0,852631579	0,860215054	0,909090909				
0,956521739	0,875	0,964285714	0,893617021	0,950819672	0,857142857	0,911764706	0,875				
0,847619048	0,837209302	0,752380952	0,774509804	0,754545455	0,87	0,804347826	0,863636364				
0,840425532	0,857142857	0,855769231	0,744444444	0,80952381	0,811764706	0,833333333	0,871794872				
0,814159292	0,87	0,747826087	0,778761062	0,75	0,884955752	0,828571429	0,923809524				
0,835820896	0,8125	0,842105263	0,794117647	0,794871795	0,833333333	0,824561404	0,836734694				
0,860465116	0,913793103	0,702479339	0,847328244	0,81884058	0,92248062	0,866666667	0,958677686				
0,827586207	0,85915493	0,901960784	0,76744186	0,808080808	0,810126582	0,8625	0,826086957				
0,822222222	0,851351351	0,765957447	0,854166667	0,767676768	0,923076923	0,797468354	0,896103996				
0,851851852	0,892307692	0,868131868	0,7875	0,815217391	0,802816901	0,845070423	0,838706717				
0,865546218	0,893203883	0,716814159	0,860655738	0,762295082	0,905172414	0,892857143	0,934579439				
0,840909091	0,85915493	0,727272727	0,822222222	0,783505155	0,91954023	0,848101266	0,948051948				
0,853333333	0,859649123	0,702702703	0,815789474	0,8	0,869565217	0,846153846	0,859649123				
0,867647059	0,900826446	0,688	0,871428571	0,794326241	0,942028986	0,908396947	0,944444444				
0,792207792	0,838709677	0,842696629	0,817073171	0,747126437	0,866666667	0,861111111	0,857142857				
0,85483871	0,75	0,672131148	0,863636364	0,774647887	0,894736842	0,867924528	0,913043478				
0,86	0,851851852	0,734693878	0,82	0,773584906	0,907216495	0,880434783	0,943181818				
0,819277108	0,850746269	0,813186813	0,827586207	0,8	0,831168831	0,84	0,884057971				
0,831578947	0,875	0,81372549	0,802083333	0,754901961	0,788235294	0,850574713	0,846153846				
0,916666667	0,871794872	0,943661972	0,810344828	0,875	0,787234043	0,8	0,810810811				
0,842105263	0,858974359	0,775510204	0,774193548	0,752475248	0,813953488	0,848837209	0,8875				
0,735849057	0,820512821	0,915492958	0,775862069	0,863013699	0,770833333	0,782608696	0,647058824				
0,828125	0,85106383	0,9375	0,784615385	0,833333333	0,759295259	0,836363636	0,8				
0,75862069	0,756097561	0,876712329	0,774193548	0,842105263	0,745098039	0,729166667	0,756097561				
0,846153846	0,818181818	0,955223881	0,79245283	0,882352941	0,761904762	0,775	0,78125				
0,781818182	0,789473684	0,915492958	0,732142857	0,830985915	0,770833333	0,755555556	0,756756757				
0,870967742	0,833333333	0,918918919	0,806451613	0,837837838	0,784313725	0,82	0,775				
0,872340426	0,72	0,967213115	0,8125	0,830508475	0,676470588	0,833333333	0,857142857				
0,907407407	0,733333333	0,921875	0,894736842	0,863636364	0,813953488	0,736842105	0,914285714				
0,783783784	0,830508475	0,913043478	0,746666667	0,76744186	0,738461538	0,746031746	0,868852459				
0,732394366	0,810344828	0,765432099	0,763157895	0,738095238	0,811594203	0,803030303	0,868852459				
0,954545455	0,863636364	0,981818182	0,913043478	0,949152542	0,848484848	0,870967742	0,958333333				
0,789473684	0,769230769	0,887323944	0,719298246	0,802816901	0,70212766	0,791666667	0,829268293				
0,88	0,918032787	0,8	0,838709677	0,702702703	0,783783784	0,783783784	0,870967742				
0,904761905	0,769230769	0,803030303	0,841269841	0,851351351	0,826923077	0,765957447	0,88372093				
0,883928571	0,916666667	0,59375	0,897435897	0,825	0,982608696	0,914285714	0,97207903				
0,721518987	0,805970149	0,694117647	0,820224719	0,7	0,892857143	0,815789474	0,904109589				
0,608696562	0,728813559	0,752941176	0,765432099	0,727272727	0,826666667	0,835616438	0,846153846				
0,610169492	0,826923077	0,87804878	0,821917808	0,833333333	0,84375	0,830606574	0,84905604				
0,930232558	0,75	0,981818182	0,888888889	0,912280702	0,882352941	0,90625	0,913043478				
0,763636364	0,794871795	0,945945946	0,779661017	0,816901408	0,723404255	0,787234043	0,72972973				
0,693548387	0,823529412	0,87654321	0,802816901	0,7875	0,803278689	0,852459016	0,875				
0,654545455	0,872340426	0,962962963	0,78125	0,860759494	0,705882353	0,854545455	0,675				
0,840425532	0,871794872	0,677777778	0,822916667	0,774509804	0,936842105	0,898876404	0,939759036				
0,777777778	0,827586207	0,951612903	0,865384615	0,890625	0,825	0,842105263	0,64				
0,842592593	0,88172043	0,884297521	0,794392523	0,752212389	0,852941176	0,86	0,88172043				
0,885714286	0,836734694	0,871794872	0,861111111	0,825	0,888888889	0,883333333	0,86				
0,82	0,774193548	0,868852459	0,788461538	0,770491803	0,813953488	0,8	0,774193548				
0,86	0,75862069	0,953125	0,826923077	0,859375	0,804878049	0,756756757	0,875				
0,734177215	0,820895522	0,829787234	0,776470588	0,725274725	0,789473684	0,797292729	0,820895522				
0,661016949	0,862745098	0,94047619	0,830985915	0,827160494	0,836065574	0,885245902	0,816326531				
0,839285714	0,742857143	0,943661972	0,810344828	0,791044776	0,787234043	0,772727273	0,705882353				
0,8	0,815789474	0,642857143	0,870967742	0,811594203	0,945454545	0,87755102	0,953488372				
0,866666667	0,825	0,818181818	0,857142857	0,864864865	0,928571429	0,8125	0,931818182				
0,724137931	0,847826087	0,936708861	0,835820896	0,860759494	0,730769231	0,833333333	0,738095238				
0,774193548	0,804347826	0,938271605	0,73015873	0,805194805	0,692307692	0,818181818	0,804347826				
0,666666667	0,914893617	0,948717949	0,754098361	0,871794872	0,79245283	0,84905604	0,813953488				
0,714285714	0,830508475	0,830508475	0,794871795	0,795454545	0,757575758	0,838235294	0,810344828				
NA	0,760869565	0,826666667	0,794117647	0,779220779	0,813559322	0,781818182	0,787234043				
0,760869565	NA	0,824561404	NA	0,803278689	0,833333333	0,756756757	0,838709677				
0,826666667	0,824561404	NA	0,87804878	0,761904762	0,933333333	0,884057971	0,953125				
0,794117647	0,84905604	0,87804878	NA	0,790123457	0,766666667	0,796610169	0,803921569				
0,779220779	0,803278689	0,761904762	0,790123457	NA	0,821917808	0,830985915	0,893939394				
0,813559322	0,833333333	0,933333333	0,766666667	0,821917808	NA	0,775	0,775				
0,781818182	0,756756757	0,884057971	0,796610169	0,830985915	0,770833333	NA	0,789473684				
0,787234043	0,83870										

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UZ.P122	UZ.P123
0,833333333	0,811881188
0,878787879	0,877358491
0,826086957	0,851851852
0,802325581	0,84375
0,868131868	0,878787879
0,795454545	0,871287129
0,825581395	0,852631579
0,820512821	0,823529412
0,805970149	0,9
0,808219178	0,797468354
0,833333333	0,87
0,826086957	0,813333333
0,802631579	0,792682927
0,861111111	0,941176471
0,755102041	0,810344828
0,813333333	0,817073171
0,823529412	0,857142857
0,830985915	0,87654321
0,763888889	0,831325301
0,728813559	0,814285714
0,795454545	0,890909091
0,857142857	0,913580247
0,853658537	0,921568627
0,866666667	0,927272727
0,827586207	0,882352941
0,805194805	0,876404494
0,865771812	0,89375
0,888	0,877862595
0,861538462	0,861111111
0,827160494	0,816091954
0,826086957	0,778947368
0,916666667	0,955555556
0,845360825	0,878504673
0,823529412	0,863157895
0,853211009	0,863247863
0,789473684	0,867647059
0,887096774	0,885496183
0,82278481	0,811764706
0,858823529	0,870967742
0,8	0,820512821
0,904347826	0,901639344
0,879518072	0,902173913
0,833333333	0,896103896
0,925925926	0,922535211
0,8	0,835443038
0,851851852	0,90625
0,870967742	0,902912621
0,844155844	0,858823529
0,8	0,777777778
0,782608696	0,814814815
0,78313253	0,840425532
0,765957447	0,754716981
0,842105263	0,654545455
0,74	0,85483871
0,725	0,82
0,739130435	0,754716981
0,803921569	0,85
0,842105263	0,761904762
0,80952381	0,925925926
0,772727273	0,728571429
0,734375	0,710144928
0,806451613	0,953488372
0,75	0,785714286
0,763157895	0,829787234
0,775510204	0,866666667
0,935779817	0,949152542
0,820512821	0,876404494
0,774647887	0,75
0,841269841	0,826086957
0,84375	0,902439024
0,688888889	0,759259259
0,819672131	0,787878788
0,839285714	0,822580645
0,901098901	0,909090909
0,789473684	0,8
0,84	0,862385321
0,904761905	0,867647059
0,80952381	0,884615385
0,736842105	0,755555556
0,77027027	0,7625
0,888888889	0,835820896
0,727272727	0,79245283
0,836734694	0,859649123
0,843137255	0,901639344
0,796296296	0,803278689
0,759259259	0,75
0,854545455	0,775862069
0,826086957	0,728571429
0,789473684	0,777777778
0,769230769	0,857142857
0,871428571	0,884615385
0,822580645	0,808823529
0,881578947	0,8375
0,729166667	0,722222222
0,681818182	0,821428571
0,8	0,808510638
NA	0,716981132
0,716981132 NA	

Supplementary File 5

alpha_diversities-1			
Sample code	Status	Shannon diversity	Simpson diversity
UZ.P066	Ctrl	3,040128549	0,88989411
UZ.P067	Ctrl	2,936797879	0,866697692
UZ.P068	IPA	0,443405778	0,168096743
UZ.P069	IPA	1,221306011	0,449344568
UZ.P070	IPA	2,537189327	0,867575066
UZ.P071	IPA	3,063380981	0,8974037
UZ.P072	IPA	1,257510951	0,436049813
UZ.P073	IPA	2,993308845	0,911929895
UZ.P074	IPA	2,08377	0,714794331
UZ.P056	IPA	3,100703343	0,922230217
UZ.P075	IPA	3,061881809	0,906431066
UZ.P076	IPA	2,322348401	0,844071018
UZ.P077	IPA	2,322699716	0,817056843
UZ.P079	IPA	0,491583674	0,156892725
UZ.P080	IPA	1,880596	0,797702528
UZ.P081	IPA	2,592708136	0,842672675
UZ.P083	IPA	1,250563779	0,59232225
UZ.P084	IPA	1,584026097	0,55441434
UZ.P085	IPA	3,107229386	0,882676825
UZ.P057	IPA	0,97275414	0,436626656
UZ.P086	IPA	1,471627498	0,694007507
UZ.P087	IPA	0,897568008	0,296347497
UZ.P089	IPA	1,903764972	0,777368322
UZ.P091	IPA	2,856775712	0,926328284
UZ.P092	Ctrl	2,831116944	0,899828544
UZ.P093	Ctrl	3,053066756	0,899365855
UZ.P094	Ctrl	3,490389615	0,941353464
UZ.P095	Ctrl	3,416688054	0,92462455
UZ.P096	Ctrl	2,471833297	0,860321121
UZ.P097	Ctrl	3,472649261	0,949109024
UZ.P058	IPA	2,775017666	0,819649258
UZ.P098	Ctrl	0,532200944	0,248205458
UZ.P099	Ctrl	3,751047314	0,962547828
UZ.P100	Ctrl	2,6399937	0,840780245
UZ.P101	Ctrl	3,174070093	0,916563768
UZ.P102	Ctrl	1,350104955	0,589114891
UZ.P103	Ctrl	3,011321619	0,912132314
UZ.P104	Ctrl	3,346697128	0,944058467
UZ.P105	Ctrl	2,212794373	0,736134765
UZ.P106	Ctrl	3,60711658	0,960014709
UZ.P107	Ctrl	2,441726502	0,878272261
UZ.P108	Ctrl	2,390890551	0,860316541
UZ.P110	Ctrl	2,230038305	0,855713542
UZ.P111	Ctrl	3,018391103	0,861229423
UZ.P112	Ctrl	3,530532086	0,945818431
UZ.P113	Ctrl	1,409423999	0,568408757
UZ.P114	Ctrl	2,22589473	0,802808535
UZ.P060	IPA	2,915713721	0,862307614
UZ.P061	IPA	1,593820547	0,51989304
UZ.P063	IPA	2,320498319	0,823266597
UZ.P064	IPA	3,229032527	0,91032557
UZ.P124	IPA	1,784265254	0,742695592
UZ.P127	IPA	2,324072479	0,789989734
UZ.P128	IPA	0,722987392	0,251944819

alpha_diversities-1

UZ.P129	IPA	0,382282048	0,11469907
UZ.P130	IPA	0,511359484	0,173426778
UZ.P131	IPA	1,261266036	0,648385665
UZ.P132	IPA	0,318472874	0,099428115
UZ.P133	IPA	1,917789531	0,798826689
UZ.P115	IPA	2,433499171	0,829100727
UZ.P134	IPA	2,03537859	0,716255749
UZ.P135	IPA	1,171958933	0,65649438
UZ.P136	IPA	0,899827681	0,443285296
UZ.P137	IPA	1,326583561	0,619372946
UZ.P138	IPA	2,315339877	0,855188761
UZ.P139	IPA	3,555104921	0,94999995
UZ.P140	Ctrl	2,779846414	0,889801683
UZ.P141	Ctrl	2,892248994	0,916628909
UZ.P142	Ctrl	3,442783967	0,952697601
UZ.P143	Ctrl	0,095714675	0,028309326
UZ.P116	IPA	1,287662792	0,465836095
UZ.P144	Ctrl	2,724769445	0,901162636
UZ.P145	Ctrl	3,080267478	0,925943227
UZ.P146	Ctrl	3,283095225	0,937827528
UZ.P147	Ctrl	1,072540837	0,386290271
UZ.P148	Ctrl	3,15827751	0,879918307
UZ.P149	Ctrl	1,522953283	0,568496727
UZ.P150	Ctrl	1,112371278	0,419803791
UZ.P151	Ctrl	1,517480205	0,681352087
UZ.P152	Ctrl	3,580406763	0,957905766
UZ.P153	Ctrl	3,834298355	0,967861333
UZ.P117	IPA	1,365873168	0,671840487
UZ.P154	Ctrl	2,707923437	0,897713109
UZ.P155	Ctrl	1,880862556	0,745559473
UZ.P156	Ctrl	1,981861354	0,698898879
UZ.P157	Ctrl	2,612032242	0,852520178
UZ.P158	Ctrl	1,623136065	0,571247942
UZ.P159	Ctrl	3,054918635	0,902228311
UZ.P160	Ctrl	2,424074885	0,799069577
UZ.P161	Ctrl	1,460975909	0,60958694
UZ.P162	Ctrl	2,762609034	0,886582537
UZ.P163	Ctrl	2,091113685	0,755472809
UZ.P164	Ctrl	2,522668652	0,768102633
UZ.P119	IPA	2,492621939	0,858063563
UZ.P120	IPA	1,605307337	0,700729653
UZ.P121	IPA	2,457587409	0,868493931
UZ.P122	IPA	1,094647418	0,357732128
UZ.P123	IPA	3,298641201	0,942390091