

Supplementary Material

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

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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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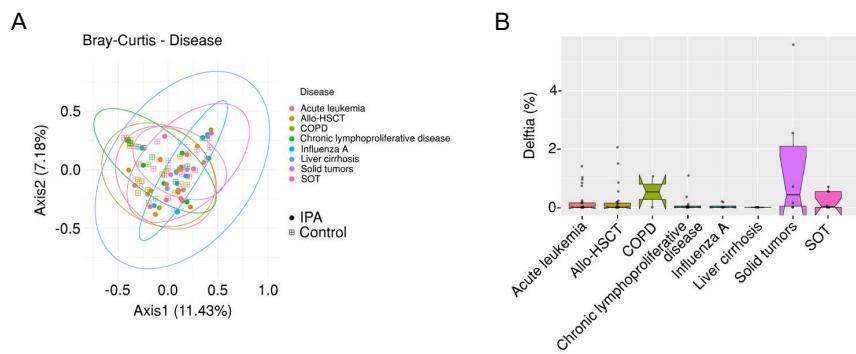


Figure S1. The underlying disease does not influence the lung microbiome. A) Principal coordinate analysis between cases of IPA and controls based on the Bray-Curtis dissimilarity metric according to the different underlying diseases in the cohort. Circles indicate cases of IPA and squares indicate controls,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

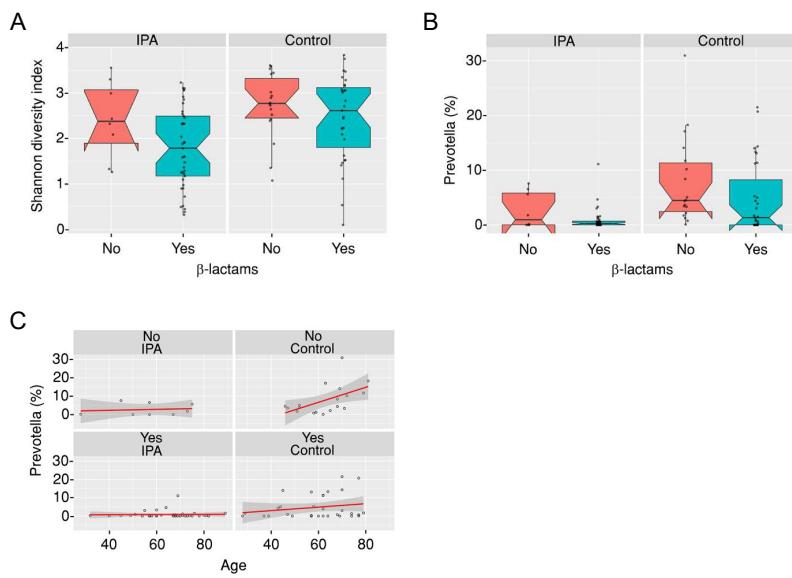


Figure S2. The microbiome in IPA is not affected by β-lactam antibiotics. Boxplots illustrating A) the alpha diversity (measured by the Shannon diversity index) of the lung microbiome and B) the relative abundance of *Prevotella* (%) among patients receiving (Yes) or not (No) β-lactams grouped according 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).

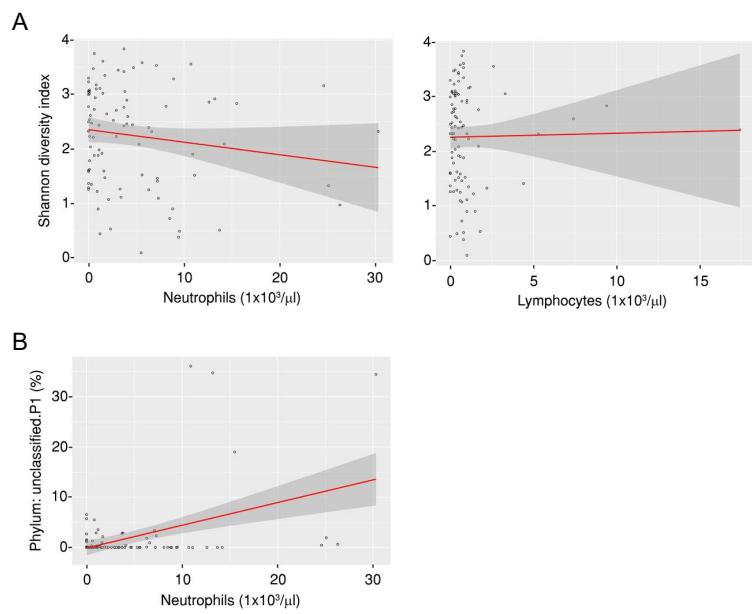


Figure S3. Immune cell counts are not associated with microbiome diversity. A) Association analysis between the alpha diversity (measured by the Shannon diversity index) of the lung microbiome and the number of neutrophils and lymphocytes (expressed as $1 \times 10^3/\mu\text{l}$) in BAL samples from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

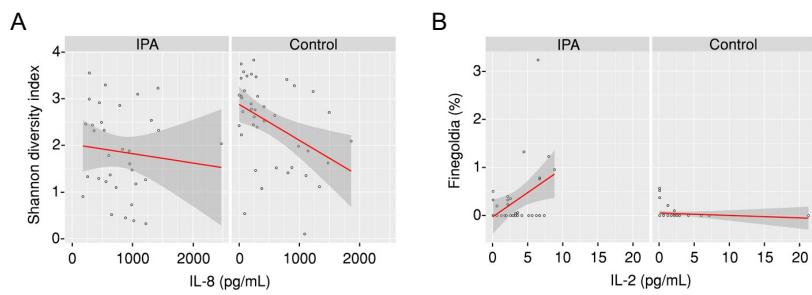


Figure S4. Alveolar cytokines promote IPA-specific effects on microbiome composition. A) Association analysis between the alpha diversity (measured by the Shannon diversity index) and the levels of IL-8 in BAL samples from cases of IPA and control patients. B) Association analysis between the abundance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

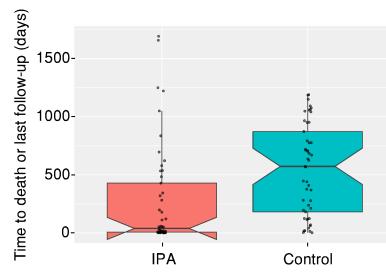


Figure S5. Time to death or last follow-up is shorter in IPA. Boxplot illustrating the time to death or date of last follow-up (days) among cases of IPA and control patients. Median values and interquartile ranges are indicated in the plots.

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-1β	<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
	<i>Unclassified.P1</i>	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>Finegoldia</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
Acinetobacter	5	0,22
Actinomyces	5	0,02
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		
Actinomyces	1,83202721	0,01433264	2,01535381	0,01670462		
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		

Good.mock.rel_abunds

	HM277D	HM278D	HM782D	HM783D
Acinetobacter	5,67893933	0,28665287	3,98827913	0,23108062
Actinomyces	1,83202721	0,01433264	2,01535381	0,01670462
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Rhodobacter	2,050865	8,17992627	2,54438419	9,87911421
Staphylococcus	12,9454384	32,0477908	11,7467284	27,4401278
Streptococcus	14,5729213	30,3341799	12,3294573	31,2911003

Good.mock.rel_abunds

	HM277D	HM278D	HM782D	HM783D
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Bad.mock.rel_abunds

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Bifidobacterium	0	0	0	0,00334092		
Brucella	0	0	0	0,00167046		
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
	11522	500	6016	415	HM277D	HM278D
Actinomycetes	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 Sq	Mean Sq	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	0.094796		
	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
	Intercept	2.3540	1.4027	3.3052	0.4784	4.9203	0.0000
figure S3A (Shannon vs Neutrophils)	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
	Intercept	2.3778	1.4292	3.3264	0.4773	4.9821	0.0000
figure S3A (Shannon vs Lymphocytes)	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
	Intercept	1.2573	-4.2322	6.7468	2.7610	0.4554	0.6500
figure S3B (unclassified.Phy vs Neutrophils)	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
	Intercept	489.1053	40.2535	937.9571	225.9981	2.1642	0.0330
Figure S5 (Time to death vs Case.control)	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

	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	0.992317686	0.807498437	0.945429904
UZ.P068	0.959231664	0.986768614	NA	0.966559196	0.966559196	0.992317686	0.960992452	0.981620633
UZ.P069	0.813583466	0.932737277	0.966559196	NA	0.992317686	0.948167785	0.766610582	0.91945174
UZ.P070	0.750458136	0.573601544	0.992317686	0.948167785	NA	0.835533109	0.835533109	0.960444635
UZ.P071	0.510407534	0.807498437	0.960992452	0.766610582	0.835533109	NA	0.833069086	0.846780934
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	0.464780934	0.842624534	
UZ.P074	0.67449833	0.420844633	0.990349664	0.94343087	0.510827871	0.820396667	0.956623431	0.740470507
UZ.P075	0.886731722	0.930350627	0.961579105	0.912675675	0.958331983	0.722485186	0.909055898	0.732009491
UZ.P076	0.774736307	0.840865914	0.810874581	0.854314912	0.873100795	0.605913195	0.84345147	0.520085285
UZ.P077	0.621991295	0.904383256	0.610425311	0.812524467	0.92090105	0.584851858	0.876158774	0.708656245
UZ.P078	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	0.967689699	0.819216782	0.910147337	0.451823947	0.868900049	0.636335325
UZ.P082	0.913880024	0.981367945	0.942918406	0.951280064	0.991658498	0.914142163	0.963468152	0.878040433
UZ.P083	0.911172363	0.96821244	0.59804297	0.925424164	0.980586096	0.845975282	0.945214841	0.782104292
UZ.P084	0.900885258	0.88370606	0.950852351	0.915477085	0.910183261	0.777746754	0.934015911	0.778054323
UZ.P085	0.698767078	0.619286725	0.812420584	0.925557433	0.724619666	0.822732849	0.955017059	0.687649665
UZ.P086	0.89804587	0.990795924	0.893732092	0.959754479	0.990627547	0.80768023	0.964876084	0.715968255
UZ.P087	0.938805056	0.864595034	0.99551072	0.95694913	0.900128202	0.919977713	0.961669732	0.918043391
UZ.P088	0.994670323	0.991185104	0.988520022	0.994151587	0.992432999	0.979828929	0.993634539	0.977340946
UZ.P089	0.994018607	0.991313409	0.992456444	0.994973231	0.992822377	0.986525505	0.993547888	0.984789128
UZ.P090	0.985219308	0.974316302	0.986534495	0.985804494	0.981863698	0.960523643	0.990135518	0.945453194
UZ.P091	0.474338343	0.702070233	0.953922237	0.793237748	0.730174043	0.502866223	0.825498821	0.481531711
UZ.P092	0.783525962	0.62778316	0.989255603	0.983844436	0.488733861	0.867766459	0.944934972	0.788774096
UZ.P093	0.859357828	0.855120787	0.968528305	0.917392259	0.902805219	0.819309789	0.906858298	0.842907859
UZ.P094	0.598386716	0.804687572	0.597582054	0.865785462	0.789152959	0.651976688	0.854834272	0.640991533
UZ.P095	0.633165731	0.825172174	0.958669605	0.820623325	0.816260725	0.562240867	0.838420545	0.603621008
UZ.P096	0.487738702	0.590275075	0.9680804488	0.833996461	0.630179135	0.583863125	0.886047389	0.536825902
UZ.P097	0.88679452	0.998246772	0.948214884	0.977490935	0.99772094	0.865685817	0.967645402	0.882266843
UZ.P098	0.710387841	0.627867475	0.952430147	0.873935943	0.621848059	0.65448112	0.891148618	0.664035289
UZ.P099	0.694755202	0.855109765	0.977458106	0.892522695	0.885285898	0.663080081	0.879102933	0.734104381
UZ.P100	0.867569468	0.709423481	0.987634498	0.940815657	0.574879513	0.842770027	0.944672185	0.866012488
UZ.P101	0.939356313	0.869463612	0.989667021	0.959422122	0.858954642	0.918068833	0.958399676	0.927833861
UZ.P102	0.743867985	0.529592314	0.996346965	0.948659107	0.434611026	0.848225426	0.960852451	0.769197646
UZ.P103	0.601594487	0.734554132	0.972059813	0.862329345	0.721725537	0.626613119	0.849705988	0.610436165
UZ.P104	0.718007432	0.565202073	0.988158824	0.941108198	0.487403037	0.846282833	0.948135947	0.783969033
UZ.P105	0.574767226	0.705411171	0.979066654	0.972362622	0.701371746	0.574397801	0.869380966	0.578332998
UZ.P106	0.772180253	0.626847178	0.993852742	0.94995493	0.460928593	0.862125553	0.963593261	0.80325065
UZ.P107	0.696915997	0.579190316	0.996868691	0.951027107	0.40145991	0.845410226	0.965825838	0.774529691
UZ.P108	0.849430699	0.676952274	0.996202411	0.956358211	0.677671261	0.865836124	0.965067509	0.820896605
UZ.P109	0.682029693	0.428032407	0.992081117	0.941752482	0.485464666	0.847966069	0.953909167	0.732908162
UZ.P110	0.971618007	0.973261441	0.966724365	0.977810536	0.988741443	0.914350431	0.978815887	0.889717428
UZ.P111	0.384017551	0.600161214	0.953417525	0.80532328	0.699285864	0.447337874	0.84851261	0.543377539
UZ.P112	0.797543851	0.930482172	0.910244008	0.965770822	0.976830592	0.739337859	0.960852091	0.779829192
UZ.P113	0.962803981	0.986422687	0.977259622	0.973880716	0.992982	0.947867489	0.985552764	0.933576961
UZ.P114	0.800509267	0.984139065	0.984300856	0.974954639	0.992960818	0.7097624	0.961555893	0.836938556
UZ.P115	0.993804848	0.995733231	0.992168164	0.994656774	0.997264398	0.985747659	0.995647329	0.986341297
UZ.P116	0.991639821	0.988795232	0.992850631	0.992445518	0.992632165	0.981440006	0.993311719	0.980508944
UZ.P117	0.962371548	0.993340359	0.85927683	0.962959652	0.996563806	0.965090815	0.991366877	0.897073703
UZ.P118	0.998281787	0.998210867	0.997197242	0.998461034	0.998166494	0.994762627	0.998382385	0.995034437
UZ.P119	0.839354473	0.905265471	0.918516742	0.881690183	0.979532723	0.715753092	0.915591313	0.644140421
UZ.P120	0.949250827	0.989320885	0.923174738	0.956206519	0.991588101	0.936484734	0.980573147	0.886972107
UZ.P121	0.916503125	0.896481874	0.973907342	0.940519797	0.935708335	0.869714572	0.955067602	0.874209335
UZ.P122	0.991609505	0.998166713	0.992961671	0.995709419	0.997060879	0.986629649	0.995563064	0.988821538
UZ.P123	0.797958546	0.670107131	0.979809818	0.945128583	0.703857029	0.79539405	0.964212645	0.650824582
UZ.P124	0.995031159	0.993381879	0.995752207	0.9968088	0.988522648	0.996571717	0.9893038	
UZ.P125	0.922091987	0.992308979	0.971105031	0.971102228	0.868865855	0.912537453	0.973030122	0.913722283
UZ.P126	0.857726855	0.599059663	0.995145918	0.935948951	0.747815886	0.80347842	0.954017686	0.795662132
UZ.P127	0.864670615	0.641131203	0.993913259	0.936733847	0.709855556	0.796196943	0.955918983	0.798401201
UZ.P128	0.86714723	0.643486463	0.993062327	0.935105828	0.853390576	0.820868139	0.9534563	0.819161606
UZ.P129	0.871051956	0.870692753	0.974394147	0.926989325	0.884906644	0.811711472	0.951617712	0.819766887
UZ.P130	0.835126147	0.997611073	0.986559592	0.99018437	0.99684612	0.793524988	0.978160962	0.877024764
UZ.P131	0.911919203	0.981587539	0.377664743	0.959444575	0.994853787	0.921532341	0.960775198	0.857228006
UZ.P132	0.869852396	0.845216065	0.981053188	0.961385186	0.887428792	0.857018119	0.919962105	0.821253123
UZ.P133	0.914391775	0.988589757	0.937319213	0.956968044	0.998518588	0.896165232	0.970678733	0.850570456
UZ.P134	0.887845234	0.673989883	0.995959206	0.983450296	0.772832747	0.831127188	0.953885316	0.846510139
UZ.P135	0.958565485	0.962871578	0.996264274	0.975651145	0.968113144	0.941997509	0.979461451	0.936368904
UZ.P136	0.953004049	0.962021018	0.979752635	0.973998584	0.973148024	0.923412909	0.976823212	0.94931007
UZ.P137	0.957777777	0.97238252	0.990795228	0.97733177	0.977331734	0.948038168	0.97361601	0.949874895
UZ.P138	0.995084563	0.992706728	0.995560213	0.995158278	0.995108289	0.985705733	0.99618471	0.988738794
UZ.P139	0.982678303	0.994893774	0.983457557	0.986974596	0.994552627	0.958513661	0.987247202	0.953149663
UZ.P140	0.84340572	0.829614554	0.974186894	0.929525223	0.801044041	0.82767526	0.9393477	0.843836272
UZ.P141	0.920245822	0.						

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
0.420844633	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	0.96768969
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	0.979515131	0.91047337
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	0.75232822	0.926564065	0.843423012	0.775973261
0.91349185	0.818894148	0.684709218 NA	0.592140921	0.592140921	0.94482522	0.945970716	0.56754438
0.916237418	0.843489626	0.75232822	0.592140921 NA	0.749486759	0.749486759	0.92776594	0.343780221
0.945183527	0.96606092	0.926564065	0.94482522	0.92776594	0.998911332	0.914998848	
0.967323361	0.827146201	0.843423012	0.945970716	0.998911332 NA	0.867151039		
0.889058164	0.823208976	0.775973261	0.567544348	0.343780221	0.914998848	0.867151039 NA	
0.990129023	0.883372068	0.8684081624	0.935678313	0.922908556	0.982068284	0.947270702	0.927929416
0.981172251	0.799834371	0.528914639	0.644429876	0.905459002	0.985669888	0.890874159	0.889994263
0.871255335	0.715187377	0.765124449	0.881922512	0.873238573	0.96323863	0.933984126	0.864794793
0.482809347	0.921561991	0.722327427	0.790175798	0.900436591	0.967126254	0.962458526	0.868703159
0.987519627	0.810918229	0.706897731	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	0.934495657	0.965885746	0.993874533	0.998310574	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	0.959283851	0.95781592	0.909032855
0.889242994	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	0.91530263	0.670807815
0.541709467	0.867405325	0.758734826	0.760240671	0.726942239	0.914066192	0.92271791	0.702581961
0.995581094	0.970505959	0.894468692	0.932257443	0.881381659	0.922081794	0.994649849	0.911091474
0.626360972	0.790807469	0.708129696	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	0.925582839	0.95132666	0.955355801	0.920474824
0.763972177	0.858149255	0.76971586	0.778329976	0.705489576	0.935060674	0.952499126	0.716707038
0.473195151	0.9345311798	0.888272913	0.902428208	0.904716576	0.958269909	0.965237533	0.894782331
0.743623922	0.867638891	0.771935126	0.767643175	0.705339654	0.90166294	0.931984691	0.6969525168
0.533043677	0.966994679	0.888123081	0.928239061	0.926998504	0.951419505	0.969706608	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	0.966673752	0.978068527	0.921101565
0.414642674	0.96144621	0.871789054	0.922474434	0.918952946	0.95161501	0.948270665	0.91646324
0.967069547	0.741630297	0.799848178	0.934884081	0.929574717	0.989826849	0.907779809	0.921222054
0.534675847	0.972832726	0.92338085	0.937807068	0.927888763	0.956844956	0.974368064	0.925886751
0.555571069	0.968294941	0.907568368	0.933497131	0.932960735	0.952800145	0.815026023	0.923956312
0.974277834	0.705812785	0.781495086	0.958518069	0.93333372	0.986913322	0.879947357	0.943575247
0.852432614	0.836840217	0.752669093	0.642240144	0.490826272	0.944068308	0.910226321	0.481610532
0.990358577	0.738185224	0.856108989	0.969840183	0.952071525	0.99001325	0.880033571	0.9542423
0.569160674	0.798462808	0.703654727	0.634267286	0.600377725	0.90222373	0.941765044	0.553096099
0.976079691	0.888838642	0.791313081	0.884471502	0.725708731	0.821382825	0.988612205	0.848936465
0.989102483	0.799761146	0.925162246	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	0.734174747	0.868658675	0.976775032	0.998034941	0.995687206	0.974666886
0.997797595	0.984276631	0.990946825	0.996840228	0.996414679	0.999228256	0.996325173	0.996014778
0.955958664	0.754067971	0.592931855	0.831791692	0.841266885	0.981706345	0.904773535	0.840282094
0.989211003	0.868947087	0.841620339	0.944199709	0.964980788	0.993708268	0.970988104	0.957301009
0.888314011	0.844533818	0.811160286	0.932746657	0.912527933	0.968645696	0.957107469	0.899797062
0.998757877	0.976694667	0.981699717	0.994525183	0.993582366	0.996010886	0.986557285	0.980751316
0.591963609	0.906261654	0.884359304	0.906556695	0.907808842	0.972087961	0.978600334	0.855409071
0.994392847	0.970611645	0.983198947	0.994144982	0.993758567	0.997362394	0.988879804	0.993383183
0.882973834	0.773405553	0.858742728	0.890946349	0.940326436	0.979742534	0.987440646	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	0.837892007	0.899668946	0.891620156	0.963176383	0.980870434	
0.9965555104	0.926790528	0.931935837	0.955062228	0.613887224	0.641344839	0.989120694	0.866429411
0.990885171	0.95790407	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	0.988354383	0.980959596	0.948032163
0.960793676	0.901157788	0.922719204	0.967675603	0.95221367	0.985977687	0.974224915	0.969951746
0.965403971	0.929202764	0.940588019	0.973726316	0.962599774	0.986356896	0.981162246	0.949071493
0.991378922	0.962863811	0.977339914	0.993888911	0.992245615	0.996236801	0.992884415	0.996267091
0.996458784	0.8285854365	0.94064587	0.977275679	0.97916117	0.988514838	0.975706083	0.974189335
0.823373074	0.86217202	0.759730659	0.911729081	0.897761591	0.947918997	0.965634939	0.905506808
0.9797059321	0.853201635	0.940576865	0.957102988	0.94731564	0.990356055	0.97484385	0.958701263
0.998881499	0.895882916	0.648998255	0.732339488	0.797138933			

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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	0,998520022	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	0,986525505	
0,963468153	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	0,715187377	0,921561991	0,810918229	0,963241004	0,93449567	0,971035263	
0,864601624	0,528914639	0,765124449	0,722327427	0,706987731	0,888719606	0,965885746	0,978355386	
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 NA	0,897028834	0,928279001	0,931128926	0,87454065	0,995631369	0,97905548	0,987321073
			0,84192465	0,694729269	0,741390001	0,98705748	0,956375261	0,979233658
	0,928279001	0,84192465 NA		0,827718592	0,826573818	0,902644264	0,89375117	0,921207979
	0,931128926	0,694729269	0,827718592 NA		0,869251326	0,94905181	0,980211112	0,989134396
	0,87454065	0,741390001	0,826573818	0,869251326 NA		0,991945811	0,932632453	0,947976879
	0,995631369	0,98705748	0,902644264	0,949005181	0,991945811 NA		0,996723102	0,99361921
	0,979055458	0,956375261	0,983751151	0,980211112	0,932632453	0,996723102 NA		0,737588652
	0,987321073	0,979233658	0,921207979	0,989134396	0,947976879	0,99361921	0,737588652 NA	
	0,972823143	0,925078864	0,815011372	0,971765384	0,913753327	0,96094574	0,674718196	0,822664556
	0,894482146	0,892913766	0,83178867	0,702901205	0,900442446	0,926489802	0,985887351	0,991194553
0,987381312	0,968968077	0,943277676	0,830426415	0,991496928	0,911266678	0,995426984	0,995646747	
0,933087398	0,901874507	0,878074829	0,937263633	0,949314231	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	0,87897265	0,920561286	0,987192125	0,992727582	
0,909835476	0,909071112	0,884021341	0,45719849	0,886287811	0,905831725	0,993257088	0,992640842	
0,748930916	0,933439942	0,979994831	0,941930304	0,870349562	0,999421246	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	0,899964543	0,900159219	0,938598901	0,993510307	0,993125942	
0,987724124	0,960189528	0,849116126	0,930663576	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	0,870607479	0,996274385	0,995566983	
0,914626471	0,930404157	0,879706182	0,780533434	0,889780441	0,942608861	0,995546756	0,994491652	
0,978398559	0,974524661	0,912198199	0,466969103	0,983623538	0,912881611	0,995669294	0,993176361	
0,884152039	0,928374347	0,893961932	0,83211865	0,90495109	0,917349634	0,993744835	0,992769278	
0,993145978	0,984239372	0,919181084	0,758308399	0,988342893	0,905566232	0,996872433	0,995145491	
0,996840045	0,986074298	0,913633846	0,657096455	0,993144437	0,912398982	0,996836736	0,996369577	
0,996172866	0,990483283	0,921281175	0,830708747	0,993248902	0,980707979	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	0,919276866	0,790073092	0,974247376	0,872061236	0,990072411	
0,994491463	0,989095044	0,930073096	0,49159742	0,991724722	0,928166715	0,996024262	0,995247985	
0,986868145	0,978816139	0,931338969	0,524239889	0,989645494	0,707355927	0,994369855	0,99482734	
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	0,92251594	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	0,937359417	0,891021608	0,68671422	0,995756132	0,997453646	0,991141257	
0,931259068	0,926020408	0,820570763	0,961411257	0,894932068	0,9938233	0,987955208	0,956452668	
0,946636897	0,955844438	0,912162869	0,976232868	0,682523638	0,951810948	0,990495004	0,984858441	
0,989963312	0,979828698	0,95670259	0,988283176	0,973221092	0,995942533	0,98887312	0,985522729	
0,993090505	0,970935914	0,947989691	0,988055055	0,98125621	0,991694423	0,99484858	0,985699859	
0,935265872	0,601386427	0,894338056	0,833504138	0,70581713	0,997163024	0,994021049	0,988731474	
0,995857646	0,988082598	0,974145548	0,995122925	0,987565183	0,999642495	0,986731654	0,979356568	
0,908215165	0,778408671	0,8894097667	0,886581219	0,727536092	0,949892614	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	0,987548282	0,992508486	0,969939933	0,998527606	0,986763365	0,992255107	
0,973817286	0,946106149	0,711397513	0,5735914	0,993588607	0,930622627	0,996284794	0,988183161	
0,989971616	0,979667164	0,942995864	0,989271003	0,962481265	0,997219949	0,935753846	0,956580071	
0,958633877	0,919633895	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	0,987803893	0,842033754	0,997607066	0,9889295	
0,988633724	0,974084312	0,814752542	0,889713111	0,985759603	0,860078591	0,996478342	0,991190018	
0,9411729	0,943983482	0,789685616	0,891134216	0,946993176	0,908707645	0,996962656	0,993264665	
0,958575978	0,970594279	0,983454757	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	0,868119026	0,867319099	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	0,963510444	0,998730872	0,998572929		
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	0,988677759	
0,994897314	0,985055351	0,941220477	0,984583227	0,951145572	0,994096438	0,977366703	0,934461341	
0,964776086	0,94321986	0,934464653	0,985601152					

UZ.P092	UZ.P093	UZ.P094	UZ.P095	UZ.P096	UZ.P097	UZ.P058	UZ.P098
0.985219308	0.474338343	0.783525962	0.859357828	0.598386716	0.633165731	0.487738702	0.88679452
0.974316302	0.702070233	0.62778316	0.855120787	0.804687572	0.825172174	0.590275075	0.998246772
0.986534495	0.953922237	0.989255603	0.968528305	0.597582054	0.958669605	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
0.990135518	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	0.776197498	0.867405325	0.97050599
0.922420006	0.668996691	0.88544218	0.77421947	0.708518436	0.689764992	0.7587734826	0.894686992
0.986589279	0.602763399	0.914119701	0.890238966	0.451614585	0.700221008	0.760240671	0.932257443
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	0.922717971	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	0.968696077	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	0.830428415	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	0.82905626	0.905831725	0.999421426
0.674718196	0.985887351	0.995426984	0.983260608	0.995069836	0.987192125	0.993257088	0.988591934
0.822664556	0.991194553	0.995646747	0.989429922	0.995417563	0.992725782	0.992640842	0.997490508
NA	0.973882239	0.982708043	0.965407871	0.986292564	0.968547409	0.97252344	0.998308891
0.973882239 NA	0.762310422	0.787485939	0.661787697	0.613923456	0.533415217	0.930958016	
0.982708043	0.762310422 NA	0.860975925	0.860975925	0.818989098	0.844529367	0.689887417	0.99704764
0.965407871	0.787485939	0.860975925 NA	0.907373533	0.907373533	0.857969704	0.870328341	0.98183179
0.986292564	0.661787697	0.818989098	0.907373533 NA	0.640417917	0.620745406	0.620745406	0.867335162
0.968547409	0.613923456	0.844529367	0.857969704	0.620745406	0.565642845	0.565642845	0.933144504
0.97252344	0.533415217	0.688987417	0.870328341	0.620745406	0.565642845 NA	0.927860027	
0.998308891	0.930958016	0.970474049	0.98183179	0.867335162	0.933144504	0.927860027 NA	
0.952833471	0.658038905	0.640351193	0.787838197	0.733783648	0.650591728	0.628908613	0.960827878
0.986410709	0.750024965	0.85089735	0.726361912	0.692885425	0.78101846	0.763640481	0.895831349
0.960511124	0.849593211	0.692156195	0.858940739	0.86202901	0.854003602	0.780997265	0.9561664
0.987299434	0.898137066	0.907001696	0.957672009	0.919311627	0.858620563	0.877935172	0.858416401
0.972	0.726153812	0.498841447	0.909987224	0.815951947	0.7752643	0.622644649	0.999695013
0.988370207	0.515233572	0.764808678	0.796199463	0.650143026	0.525268331	0.565023662	0.935859090
0.980036632	0.739630295	0.625971633	0.906479215	0.787110661	0.702449909	0.397488283	0.989349525
0.982986661	0.643209571	0.741945513	0.894668936	0.642173805	0.540060118	0.536799777	0.902120246
0.987522395	0.747107801	0.629573295	0.924540787	0.818332706	0.788464514	0.684163205	0.996838448
0.987294653	0.71930588	0.579512998	0.929796601	0.789313661	0.783342948	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	0.875538401	0.787800628	0.837895172	0.458122907	0.998499923
0.7365323	0.890408196	0.968872475	0.883570901	0.952319842	0.903558745	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	0.893324213	0.977190926	0.871373281	0.966911881	0.935601262	0.953418045	0.988153884
0.967877428	0.5459980817	0.868877854	0.883988243	0.777606956	0.713295172	0.6954259	0.968645832
0.719410634	0.937845579	0.984076629	0.926924172	0.77527573	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	0.952042151	0.983641405	0.945089292	0.951870537	0.990258235
0.982354161	0.923109105	0.990500929	0.947547447	0.746773899	0.903215427	0.900034344	0.847035268
0.983949756	0.990184479	0.996860306	0.988871070	0.939795234	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	0.995060585	0.998595352	0.996259207	0.997542771	0.999374722
0.970617355	0.768256276	0.959879965	0.898191122	0.817619938	0.719808777	0.814128226	0.924679106
0.92835704	0.944995981	0.991394309	0.952733167	0.957920495	0.945494948	0.951581972	0.95667554
0.962779878	0.876053847	0.952298269	0.874913216	0.922715434	0.864988624	0.896772976	0.979622725
0.98800578	0.992449469	0.996337874	0.990881872	0.996170699	0.993087502	0.992845675	0.995604247
0.977506775	0.680597221	0.831297902	0.959395464	0.818550859	0.884028578	0.743744793	0.988534778
0.938327658	0.992215681	0.997188689	0.990992907	0.997081964	0.993017822	0.996151748	0.998500963
0.954132256	0.873252501	0.913809826	0.928551289	0.910341792	0.776212116	0.88158929	0.980500501
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	0.855874983	0.789331012	0.999244218
0.960965235	0.879167546	0.790189703	0.898648866	0.87681066	0.797260715	0.813386759	0.998447882
0.985533136	0.843185898	0.923924143	0.910116424	0.886070435	0.785425022	0.849189266	0.985492178
0.9966984101	0.957830703	0.996107992	0.985079615	0.769035937	0.938554156	0.91868818	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	0.895691832	0.996413878	0.941349891	0.935262961	0.853785961	0.930450846	0.944268225
0.967767857	0.876077888	0.796598278	0.8363083307	0.909746341	0.879771517	0.839871744	0.999910588
0.987655458	0.950852322	0.979997224	0.956264845	0.97283834	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	0.990602011	0.996841467	0.987782644	0.995907262	0.991162266	0.993492599	0.997870109
0.958281702	0.970677276	0.993989619	0.976932186	0.98205574	0.972443481	0.976884466	0.984557213
0.948935508	0.8686097543	0.8686222698	0.837973562	0.875441388	0.804111476	0.8026660537	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	0.886604413	0.805079622
0.967036643	0.892495085	0.885079909	0.83776159				

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	0,734545132	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	0,721725357	0,487403037	0,701371746	
0,65448112	0,663080081	0,842770027	0,918068833	0,848225426	0,626613119	0,84628283	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	0,783969033	0,578332998	
0,626360972	0,881912429	0,682834576	0,799104624	0,496633595	0,763972177	0,473195151	0,743623922	
0,790807469	0,86761962	0,934098952	0,964333269	0,971255567	0,858149255	0,934531798	0,867638891	
0,708129669	0,796581339	0,814698517	0,902913614	0,886389156	0,76971586	0,888227913	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	0,7053339654	
0,935494438	0,681131645	0,940074212	0,961192132	0,95132666	0,935060674	0,958269909	0,90166294	
0,918214357	0,951312955	0,975873981	0,968650771	0,955355801	0,952499126	0,965237533	0,931984691	
0,785115923	0,777747808	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	0,899964543	0,930663576	0,94771194	0,740389622	0,780533434	0,466996103	0,83211865	
0,910609095	0,900159219	0,979012799	0,98353428	0,992508375	0,898780441	0,98362358	0,909459109	
0,876208801	0,938598901	0,862089908	0,917874542	0,870960749	0,870486861	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	0,993176361	0,992769278	
0,952834374	0,986410709	0,960511124	0,987294934	0,972	0,988370207	0,980036632	0,982986661	
0,658038905	0,750024965	0,849593211	0,898137066	0,726153812	0,515233572	0,739630295	0,643209571	
0,640351193	0,850089735	0,692156195	0,907001696	0,49884147	0,764806878	0,625971633	0,741945513	
0,787831897	0,726361912	0,858947039	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	
0,650519728	0,781091846	0,854003602	0,858620563	0,7752643	0,525268331	0,702449909	0,540060118	
0,628908613	0,763640481	0,780997265	0,877935172	0,622644649	0,556523662	0,397488283	0,536799777	
0,96082787	0,8985831349	0,99651664	0,858461401	0,999695013	0,935859909	0,989349525	0,902120246	
NA	0,750581335	0,566490828	0,851341349	0,851341349	0,573967133	0,66531375	0,698190349	0,606473094
	0,750581335 NA	0,878414445	0,843466837	0,843466837	0,878142771	0,685971113	0,901179467	0,747294874
0,566490828	0,878414445 NA	0,849578459	0,849578459	0,650236444	0,864375944	0,736356652	0,797537905	
0,85134139	0,94578459	0,843466837 NA	0,849578459	0,64906258	0,849606258	0,709026743	0,583219636	
0,573967133	0,878142771	0,650236444	0,849606258 NA	0,700926743 NA	0,710114316 NA	0,727872623 NA	0,727872623	
0,665531375	0,685971113	0,864375944	0,897585249	0,700926743 NA	0,710114316 NA	0,727872623 NA	0,686636571	
0,698190349	0,901179467	0,736356652	0,861580753	0,583219636	0,717138962	0,707342175	0,700297685	
0,606473094	0,747294874	0,797537905	0,855847911	0,682682978	0,531237044	0,587381402	0,686636571	
0,667800812	0,888184446	0,730652848	0,762889577	0,377098924	0,722742356	0,587381402	0,686636571	
0,65397429	0,889827267	0,656315892	0,861161332	0,422641305	0,731407365	0,558997797	0,700297685	
0,734096099	0,899630794	0,843794293	0,751941642	0,60560666	0,763068033	0,717138962	0,677330473	
0,576492416	0,869747017	0,61761774	0,859143639	0,391755561	0,747082552	0,446632118	0,677330473	
0,869735968	0,938585668	0,946984901	0,981093502	0,977588263	0,928304897	0,968155913	0,948925377	
0,765042516	0,905370302	0,840818182	0,870571578	0,561825801	0,74825692	0,371233449	0,698390003	
0,727273768	0,673958449	0,981739959	0,984900262	0,996759141	0,906328416	0,981767384	0,865587189	
0,988651524	0,992150359	0,993713546	0,995926093	0,998582592	0,992513231	0,997238103	0,995596012	
0,98419314	0,989678984	0,982097948	0,989466703	0,993055145	0,989305367	0,992635168	0,979166088	
0,958067161	0,983932148	0,992589314	0,996247156	0,997527681	0,976578786	0,99722055	0,99588498	
0,994851651	0,997867242	0,995082622	0,996933345	0,999158111	0,9966989	0,997900288	0,998194059	
0,859899661	0,904282614	0,968366764	0,979312117	0,994939977	0,805504699	0,9147173544	0,827496011	
0,935564953	0,973570082	0,978789259	0,986866878	0,995543763	0,96296746	0,987338667	0,985643744	
0,836357982	0,911127666	0,8894783574	0,935304538	0,940500458	0,859357629	0,911321251	0,899754707	
0,991269329	0,992647917	0,99757071	0,995478453	0,998657924	0,995308609	0,995054035	0,994973511	
0,811141987	0,895457626	0,907716133	0,941292039	0,731477449	0,751166448	0,749590257	0,808061602	
0,990584737	0,993944344	0,992456377	0,995663432	0,996242915	0,995618202	0,997993705	0,997101538	
0,797528522	0,952133676	0,856993064	0,868835834	0,881456547	0,856641674	0,872339977	0,876243804	
0,652022508	0,820590899	0,6575289654	0,914768467	0,617715202	0,87441696	0,806430573	0,808487554	
0,622575239	0,845946965	0,452551477	0,899761724	0,697171513	0,875645689	0,818305179	0,76139726	
0,739730357	0,866997979	0,803398077	0,917763541	0,807767618	0,879988067	0,820012662	0,775280063	
0,790359046	0,882294922	0,856319226	0,912124773	0,900465558	0,819106594	0,893754628	0,818401226	
0,965542136	0,483448127	0,997471459	0,995803687	0,999663581	0,936211851	0,993416746	0,897959088	
0,938614281	0,956761528	0,979625771	0,987848772	0,989856699	0,911855029	0,972818901	0,917492337	
0,698158892	0,866665216	0,800084991	0,975835127	0,815377171	0,859816616	0,850533744	0,796109448	
0,908156301	0,945697007	0,974927135	0,98637096	0,998681292	0,898155688	0,974940439	0,895793801	
0,705968649	0,834670635	0,672676404	0,878590481	0,718073217	0,904388893	0,855648119	0,827803988	
0,943025998	0,964025889	0,944543624	0,964224648	0,970952345	0,952715423	0,962794245	0,948243993	
0,924214777	0,946252902	0,9421905	0,837470999	0,96549657	0,939467411	0,971109259	0,918815503	
0,943719714	0,969361899	0,951991496	0,97496472	0,968774031	0,910140844	0,977523868	0,960083886	
0,988545644	0,992554205	0,985517179	0,989951795	0,99557783	0,992940942	0,993482503	0,99423768	
0,965353844	0,976917934	0,990346983	0,99165547	0,98735927	0,997476502	0,990856825	0,976931637	
0,670554227	0,844306016	0,962365854	0,916167508	0,839538824	0,84903246	0,875150755	0,780003817	
0,911930325	0,938817905	0,964273344	0,980939518	0,988020352	0,884945558	0,972655873	0,884104356	
0,926374371	0,800674049	0,985145128	0,990174749	0,99487636	0,910946967	0,987550744	0,882174145	
0,819229831	0,908415624	0,802182678	0,943728439	0,845406103	0,942752489	0,919412678	0,911809651	
0,797791442	0,782488272	0,81749874	0,961349671	0,847176568	0,893340773	0,944661131	0,790619293	
0,794374099	0,883438309	0,914282689	0,937452439	0,707050368	0,659517662	0,695631614	0,7332	

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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	
0.803205065	0.774529691	0.820896065	0.732908162	0.866070903	0.758467404	0.741869334	0.862078625	
0.533043677	0.504997713	0.654029932	0.414642674	0.967069547	0.534675847	0.555571069	0.974277834	
0.966994679	0.973972926	0.972505265	0.961446421	0.741630297	0.972832726	0.96629491	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	0.942670665	0.907779809	0.974368064	0.815026023	0.879947357	
0.916887236	0.917517317	0.921015065	0.91646324	0.921220204	0.925886751	0.923956312	0.943575247	
0.993145978	0.996840045	0.996172866	0.99045318	0.912661915	0.994491463	0.986686145	0.906847403	
0.984239372	0.986074298	0.990483283	0.98182674	0.786364824	0.989050404	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	0.790703092	0.991724722	0.989644594	0.832867805	
0.905566232	0.912398982	0.90870799	0.870588613	0.971424736	0.982166715	0.707355927	0.98040802	
0.996872433	0.996836736	0.998220505	0.995781673	0.872061236	0.996024262	0.994369855	0.813382179	
0.995145491	0.996369577	0.995025532	0.994202172	0.90072411	0.995247985	0.994882734	0.912560128	
0.987522395	0.987294653	0.985373322	0.973843833	0.7365323	0.989885519	0.983578828	0.748976808	
0.747107801	0.719305088	0.805961774	0.709927953	0.894048196	0.743184377	0.738925774	0.893324213	
0.629573295	0.579512998	0.7255984125	0.511725946	0.968872475	0.71614076	0.684370217	0.977190926	
0.924540787	0.929796601	0.929168051	0.875358401	0.883570901	0.943256249	0.931080232	0.871373281	
0.818332706	0.789313661	0.834657776	0.787806268	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	0.737305403	0.458122907	0.923042147	0.401849288	0.455530847	0.953418045	
0.996638448	0.99706513	0.998610048	0.998449923	0.981061236	0.998174213	0.996354744	0.988153884	
0.667800812	0.655977429	0.734096099	0.576492416	0.869737398	0.765042516	0.727219945	0.896587366	
0.888184446	0.889827267	0.8999630794	0.869747017	0.938585668	0.905370302	0.888986965	0.952111076	
0.730652848	0.656513892	0.843794293	0.61761774	0.946984901	0.840818182	0.785486563	0.958765652	
0.762889577	0.861161332	0.75194162	0.859143639	0.981093502	0.870571578	0.889718978	0.97765264	
0.377098924	0.422641305	0.60560666	0.391755561	0.975782633	0.561825801	0.556797065	0.98278483	
0.722742356	0.731407365	0.763068033	0.747085252	0.928304897	0.74825692	0.786199927	0.954514229	
0.587381402	0.558989797	0.717138962	0.446632118	0.968155913	0.371233449	0.460452957	0.970471032	
0.686636571	0.700297685	0.707342175	0.677303473	0.948925377	0.698390003	0.762046096	0.955893157	
NA	0.42869357	0.42869357	0.481916595	0.545080792	0.981141775	0.576397184	0.526576206	0.980252759
0.42869357 NA	0.42869357 NA	0.637136405	0.44935506	0.978132789	0.51690636	0.4955511	0.983214237	
0.481916595	0.637136405	0.675089865	0.675089865	0.982829307	0.647607889	0.724449645	0.988548155	
0.545080792	0.44935506	0.998229307	0.996751484	0.996751484	0.45340845	0.418239021	0.976715004	
0.981141775	0.978132789	0.982829307	0.996751484	0.986461238	0.986461238	0.977034484	0.643040044	
0.576397184	0.51690636	0.647607889	0.45340845	0.977034484	0.41868963	0.41868963	0.976671548	
0.526576206	0.495551411	0.724449645	0.418239021	0.977034484	0.98542381	0.976671548		
0.980252759	0.982829307	0.996751484	0.996751484	0.986461238	0.986461238	0.986461238		
0.875262215	0.87084619	0.892617404	0.856363626	0.92598759	0.880776396	0.8811272	0.925855333	
0.990718866	0.995280236	0.995280236	0.987644565	0.759423503	0.993805398	0.985086871	0.436533438	
0.747519786	0.667435236	0.767939366	0.605417181	0.93163377	0.687080096	0.679256844	0.951517983	
0.986549642	0.983321163	0.979742646	0.9741389	0.932460889	0.980123883	0.984957735	0.958290409	
0.993572576	0.99429257	0.99365612	0.995203779	0.787929547	0.994947081	0.99617583	0.841070635	
0.990525389	0.995967815	0.993320042	0.993386768	0.950912438	0.994381118	0.994233885	0.927960293	
0.997099697	0.997862828	0.998032286	0.999499129	0.956986024	0.997778118	0.997849061	0.949671948	
0.993166076	0.994061566	0.993050972	0.994193559	0.948866835	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	0.968528769	0.999107241	0.998655657	0.971422767	
0.986701261	0.995085038	0.973394307	0.968362941	0.816911803	0.954175158	0.982464713	0.887653469	
0.989341881	0.995584156	0.994381297	0.995639805	0.721222612	0.993707582	0.992367871	0.845409674	
0.936568204	0.939296237	0.9250803031	0.930806258	0.878486593	0.941444924	0.955573422	0.878539859	
0.994854996	0.998636437	0.999497579	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	0.996848896	0.996615274	0.997756009	0.94115937	0.996940625	0.996270771	0.935121888	
0.885174411	0.879782233	0.882143022	0.896697805	0.852863064	0.900768102	0.910961553	0.918851694	
0.779526946	0.758881733	0.784216676	0.576431276	0.95146769	0.8307928	0.784210981	0.969715324	
0.748660929	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	0.943628112	
0.995660082	0.999713991	0.998972692	0.999905948	0.985274332	0.997558969	0.996017663	0.967366265	
0.992301545	0.994542268	0.997331068	0.988919546	0.906595442	0.994944118	0.994298256	0.956577952	
0.891292673	0.883112716	0.88957801	0.797481232	0.929976721	0.869947322	0.922504542	0.93301761	
0.998239102	0.999635374	0.996199034	0.996560437	0.835054398	0.998044358	0.99793891	0.930680483	
0.787073147	0.812555404	0.815347722	0.693217742	0.941470434	0.840282263	0.841170031	0.963968311	
0.969837887	0.968822825	0.973750096	0.972326322	0.938091888	0.976543773	0.9762289704	0.966662531	
0.965468338	0.974390083	0.988130834	0.968106799	0.853446229	0.982923434	0.977100729	0.888287592	
0.977784416	0.9693942	0.981750588	0.970857703	0.944207467	0.977265442	0.973556995	0.940572052	
0.994556804	0.994778881	0.993490543	0.992450262	0.996397596	0.996700214	0.996254171	0.931863727	
0.99318543	0.998632518							

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	0.977259622	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	0.992632165
0.580230231	0.914350431	0.447337874	0.739337859	0.947876489	0.7097624	0.985747659	0.981440006
0.885571915	0.978815887	0.84851261	0.960852091	0.985552764	0.961555893	0.995647329	0.993311719
0.648953429	0.899717428	0.543377539	0.779829192	0.933576961	0.836938556	0.986341297	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	0.800605305	0.971534301	0.966031449
0.752669083	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	0.902233573	0.82132825	0.996505891	0.794261574	0.998022781	0.986460526
0.910226321	0.880033571	0.941765044	0.988612205	0.981713065	0.980899106	0.995498301	0.983785036
0.481610532	0.9542423	0.553090699	0.848936465	0.950659217	0.838506443	0.990201653	0.988200814
0.93147282	0.915967918	0.910506613	0.922852916	0.931259068	0.9466336897	0.989963312	0.993090505
0.902144539	0.859438388	0.885147977	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	0.998283176	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	0.995180922	0.995549253	0.991694423
0.987793415	0.683463979	0.993339201	0.997453636	0.987955208	0.990495004	0.98887312	0.994894858
0.993026333	0.857142857	0.992455565	0.991141257	0.956452668	0.984858441	0.985527729	0.985698859
0.967872428	0.719410634	0.982895161	0.996298389	0.929478354	0.98234161	0.983949756	0.970141551
0.549980817	0.937845579	0.458516858	0.90390229	0.963503059	0.923109105	0.990184479	0.986951388
0.868778548	0.984076629	0.711140973	0.980534149	0.992653181	0.990550029	0.996860306	0.994008607
0.883988243	0.926924172	0.886695266	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	0.945089292	0.903215427	0.990620334	0.987923413
0.6954259	0.970759551	0.435126527	0.868825033	0.951870537	0.900034344	0.992592391	0.988859809
0.968645832	0.990036853	0.884977023	0.812162795	0.990258235	0.847052368	0.996300485	0.99165093
0.771040324	0.926452046	0.628679527	0.886511029	0.931988572	0.927273768	0.98865124	0.98419314
0.825157229	0.972201633	0.737960574	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	0.990499991	0.910997232	0.979245456	0.989080087	0.984902662	0.995920693	0.989466703
0.860752945	0.995427002	0.661919143	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	0.549403858	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	0.993260042	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	0.787929547	0.950912438	0.956886024	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	0.996175783	0.994233885	0.997849061	0.994532459
0.925855333	0.436533438	0.951517983	0.958260940	0.841070635	0.927960293	0.949671948	0.954775123
NA	0.948137506	0.676049591	0.948823987	0.958984436	0.949159388	0.991269989	0.98796643
0.948137506	NA	0.968812279	0.971472747	0.914235002	0.940761195	0.96877521	0.97519457
0.676049591	0.968812279	NA	0.812380372	0.953583039	0.838679372	0.992820742	0.990247684
0.94293876	0.971472747	0.812380372	NA	0.855307553	0.404451372	0.985341709	0.992492921
0.958984436	0.914235002	0.95383039	NA	0.912268646	0.920203477	0.982860753	0.986310865
0.941953883	0.940761195	0.838679372	0.404451372	0.93384818	0.986310865	0.208585008	0.208585008
0.991269989	0.968775521	0.982207427	0.985341709	0.920203477	0.982860753	0.986310865	0.208585008
0.987966443	0.97519457	0.990247684	0.992492921	0.986310865	0.208585008	0.986310865	0.208585008
0.980032837	0.979550307	0.95164563	0.841896711	0.904784891	0.986457303	0.460706633	0.550211864
0.996307936	0.959240133	0.996832418	0.995421233	0.91882331	0.993764691	0.459590494	0.584844366
0.852204685	0.882866159	0.793615974	0.791598896	0.915245671	0.937957443	0.90228583	0.930332075
0.965910704	0.882842627	0.94261055	0.86735929	0.728316208	0.93033899	0.741624117	0.805384184
0.909226868	0.935169928	0.89103804	0.932171095	0.855494344	0.930245136	0.805389749	0.818338119
0.993451797	0.960405702	0.988239042	0.987629001	0.974204947	0.983625691	0.740597831	0.76293831
0.850102658	0.978739368	0.745900618	0.965882283	0.892450208	0.979550102	0.691436772	0.720236223
0.993464343	0.928170595	0.995957417	0.993106038	0.917161168	0.987607523	0.651006711	0.72943765
0.949462527	0.954950538	0.831117728	0.950946256	0.905713284	0.95847083	0.822714681	0.855248537
0.833464229	0.998722633	0.816824452	0.974310731	0.992340734	0.992834222	0.999406739	0.990191141
0.849572816	0.994957872	0.805811316	0.964045527	0.979530514	0.987825913	0.990709727	0.980204735
0.874777894	0.985956347	0.830785509	0.925631343	0.96912368	0.987603854	0.976823764	0.976823764
0.890881016	0.985311305	0.849983843	0.839366151	0.785260278	0.958817104	0.983276526	0.980164282
0.958416976	0.972267458	0.877150139	0.542033345	0.980918413	0.356406673	0.985431103	0.993951613
0.957688887	0.989521284	0.905377969	0.870091748	0.93937503	0.972127766	0.98585031	0.991908488
0.914701278	0.966790782	0.862043736	0.857908159	0.934676859	0.889881973	0.982717317	0.988186584
0.96271992	0.980141919	0.91015068	0.790905956	0.795338894	0.921531356	0.977971014	0.981012769
0.874278792	0.996725677	0.841852735	0.972827386	0.968050117	0.990369054	0.91251636	0.908496331
0.960220996	0.995813734	0.955911804	0.66234661	0.788202956	0.958190319	0.992696867	0.982056028
0.957652399	0.953119678	0.965573981	0.964849795	0.911883718	0.955193483	0.742233794	0.76810415
0.960212147	0.984461428	0.960335261	0.987040175	0.955010924	0.973484799	0.845730674	0.856737993
0.993106184	0.96100832	0.992636514	0.983724728	0.867137067	0.965713374	0.721713442	0.7800263
0.973926331	0.815614773	0.98009799	0.919125831	0.777624655	0.868623653	0.703206692	0.772802985
0.872269756	0.977670477	0.838272089	0.919165829	0.883792862	0.951468866	0.928728308	0.92791411
0.95061784	0.978340941	0.922348385	0.926725776	0.840902954	0.933600496	0.977420381	0.966645788
0.937097631	0.957675822	0.8380804825	0.54018191	0.931304105</td			

UZ.P131	UZ.P132	UZ.P133	UZ.P115	UZ.P134	UZ.P135	UZ.P136	UZ.P137
0.962371548	0.998281076	0.839354473	0.949250827	0.916503125	0.991609505	0.797855468	0.996264917
0.993340359	0.998210867	0.905265471	0.989320885	0.896481874	0.998166713	0.67010713	0.995031159
0.85927683	0.997197242	0.918516742	0.923174738	0.973907342	0.992961671	0.979809818	0.993381879
0.969259562	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	0.99680888
0.965090815	0.994762627	0.715753092	0.936484734	0.869714572	0.996629649	0.79539405	0.988526648
0.991336677	0.998382385	0.915951313	0.985073147	0.950567602	0.995563064	0.964212645	0.996571717
0.897073703	0.995034437	0.644140421	0.886972107	0.874209335	0.998821538	0.650824582	0.98930384
0.993577239	0.997795795	0.955958664	0.989211003	0.888314011	0.998757877	0.591963609	0.994392847
0.9696584967	0.984276631	0.754067971	0.868947087	0.844533818	0.976694666	0.906261654	0.970611645
0.7347417487	0.990946825	0.592931855	0.841620339	0.811160286	0.98169175	0.884359304	0.983198947
0.868568575	0.996840228	0.831791692	0.944199079	0.932746657	0.994525183	0.906556695	0.994198236
0.976775032	0.996414679	0.841626885	0.964980788	0.912527933	0.993582366	0.9070808842	0.993758567
0.998034941	0.999228256	0.981706345	0.993708268	0.966845696	0.996010886	0.972087961	0.997362349
0.995687206	0.996325173	0.9044773535	0.970988104	0.957107469	0.986557285	0.978600334	0.988879804
0.974666868	0.996014778	0.8402282094	0.957301009	0.899797062	0.980751316	0.855409071	0.993383163
0.935265872	0.995857646	0.908215165	0.920305424	0.947640608	0.989930423	0.973817286	0.989971616
0.601386427	0.988082598	0.778408671	0.811323677	0.9150067676	0.983311978	0.946106149	0.979679174
0.894338056	0.974145548	0.894097667	0.89911845	0.800488879	0.987548282	0.711397513	0.942995864
0.835040138	0.995172295	0.886581219	0.877655641	0.927315029	0.992508486	0.5735914	0.989271003
0.70581713	0.987565183	0.727536092	0.659236545	0.894659992	0.969939393	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	0.992877334	0.986763365	0.996248794	0.935753846
0.988731474	0.979356568	0.97783751	0.94472323	0.979693141	0.992255107	0.988183161	0.956580071
0.992406759	0.964812367	0.970617355	0.92835704	0.962779878	0.98800578	0.977506775	0.958327658
0.960545045	0.995942868	0.762852676	0.944995981	0.870505847	0.992449469	0.680597221	0.992215681
0.996628468	0.998120502	0.959879965	0.991394309	0.952292869	0.996337874	0.831297207	0.997186699
0.973495351	0.995065085	0.889119122	0.952733167	0.874913216	0.990881872	0.953995464	0.990992997
0.892850342	0.999595352	0.817619938	0.957920495	0.922715434	0.996170699	0.818505859	0.997081964
0.962415763	0.996259207	0.719808777	0.94549498	0.864988624	0.993087502	0.884028578	0.993017822
0.970178415	0.997452771	0.814128226	0.951581972	0.896727976	0.992845675	0.743744793	0.996151748
0.937049512	0.999374727	0.924679109	0.95667554	0.979622725	0.995604247	0.988534778	0.998509063
0.958067161	0.994851651	0.859899661	0.935564953	0.836537982	0.991269329	0.811419877	0.990584737
0.9893932148	0.997867242	0.904282614	0.973570082	0.911127666	0.992647917	0.895457626	0.993934434
0.992589314	0.995082622	0.968366764	0.978789259	0.894783574	0.99757071	0.907716133	0.992456377
0.996247156	0.999693345	0.979312117	0.968686867	0.935034538	0.995478453	0.941292039	0.995663432
0.997527681	0.999158111	0.994939977	0.995543763	0.940500458	0.998657924	0.731477449	0.996242915
0.976578876	0.99669989	0.805504699	0.962967464	0.859379672	0.995308609	0.751664448	0.995681202
0.99722055	0.997900288	0.914173544	0.987338667	0.911312151	0.995054035	0.749590257	0.997939705
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	0.939269237	0.998636437	0.706000747	0.99684896
0.995720639	0.999089369	0.973294307	0.994381297	0.925083031	0.999497579	0.781752015	0.996615274
0.996918854	0.999360381	0.968326941	0.995639805	0.930806258	0.999531561	0.744519701	0.997756009
0.866240707	0.968529769	0.816911803	0.721222612	0.878486593	0.993237532	0.916879178	0.941159377
0.997499103	0.999107241	0.953417158	0.993707582	0.941449424	0.998014143	0.758425784	0.998946265
0.997148777	0.998655657	0.982464713	0.992367871	0.955573422	0.995663905	0.780861845	0.996270771
0.948553459	0.971422767	0.887653469	0.845409674	0.878539859	0.997443914	0.947336389	0.935121888
0.980032837	0.996307936	0.852204685	0.965910704	0.909226868	0.993451797	0.85012658	0.993464343
0.979553037	0.959240133	0.882866159	0.935169298	0.960405702	0.97873968	0.928170595	0.996615274
0.95145463	0.996832418	0.793615974	0.94261055	0.89103804	0.988239042	0.745900618	0.995971474
0.841896711	0.995421233	0.791598896	0.867335929	0.932171095	0.987629001	0.965822823	0.993106384
0.904784891	0.918823331	0.915246571	0.728312062	0.855494344	0.974204947	0.892405208	0.971611688
0.986457318	0.993764691	0.937975443	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	0.930320375	0.805838418	0.818338119	0.782938318	0.720236223	0.72943765
0.580672128 NA	0.580672128 NA	0.895254731 NA	0.646174789	0.774787124	0.761873011	0.700063189	0.723208458
0.756183952	0.895254731 NA	0.701227317 NA	0.808776826	0.786717284 NA	0.833602998 NA	0.818641193 NA	0.789960175 NA
0.611785977	0.646174789	0.701227317 NA	0.808776826	0.786717284 NA	0.833602998 NA	0.818641193 NA	0.789960175 NA
0.80756809	0.777477872	0.808776826	0.786717284 NA	0.786717284 NA	0.833602998 NA	0.789960175 NA	0.789960175 NA
0.781873011	0.6611447313	0.914861007	0.812051254	0.833602998 NA	0.833602998 NA	0.818641193 NA	0.739525717
0.700063189	0.685670648	0.906670791	0.777923538	0.757595981	0.818641193 NA	0.844028353	0.392550143
0.723208458	0.3925205143	0.889424036	0.656238191	0.794741945	0.739525717	0.789960175 NA	0.789960175 NA
0.791414698	0.787744764	0.74991705	0.762152805	0.873178617	0.994212082	0.772763377	0.990897414
0.990876211	0.992265725	0.974557865	0.981832392	0.873178617	0.994212082	0.772763377	0.990897414
0.988606208	0.992352228	0.877755853	0.969862626	0.844683342	0.988115327	0.823244815	0.988624101
0.959305615	0.996464723	0.954294211	0.912113087	0.863826274	0.952366001	0.839247967	0.993811744
0.984164179	0.992786773	0.961789844	0.972246987	0.96184475	0.986372961	0.98556873	0.991973822
0.740373131	0.996004545	0.835715791	0.897550944	0.939900266	0.914027246	0.972955822	0.993663664
0.97731889	0.995641667	0.825648474	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	0.924580586	0.763570341	0.894149615
0.995967996	0.998191954	0.998057023	0.946758546	0.9178027	0.987524505	0.919783478	0.996513403
0.776734948	0.689304548	0.910681613	0.777677316	0.795118664	0.790262603	0.79302818	0.745935771
0.857347163	0.825727281	0.940851112	0.873084701	0.392427962	0.874302881	0.851715254	0.8304511
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	0.7662241413	0.810454888	0.508986236
0.906210641	0.934552136	0.898765533	0.864347942	0.766637143	0.937209431	0.850801068	0.930316873
0.971313894	0.991595893	0.982739592	0.851004327	0.916943415	1	0.937824515	0.984478165
0.546590142	0.861191846	0.803688445	0.748404648	0.847860101	0.887791717	0.873622445	0.860933679
0.595180996	0.818338715	0.757569423	0.672694678	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	0.99895457	0.434734886	0.990660651
0.878659666	0.874914643	0.755846624	0.743113606	0.846336934	0.926473544	0.864278703	0.871961819
0.933248112	0.996609531	0.848168407	0.882512414	0.960994918	0.994382022	0.957016777	0.993090201
0.937002531	0.918631965	0.950508886	0.851004294	0.916237166	0.969742406	0.930966021	0.920726447
0.962192056	0.996937244	0.974826564	0.954723663	0.917952975	0.9868553563	0.920524263	0.994349072
0.954319255	0.965797092	0.897713476	0.922050307	0.830755674	0.96195463	0.854745504	0.962401146
0.750934854	0.997763627	0.859755933	0.868376332	0.855754541	0.999745082	0.727674713	0.993944265
0.634133746	0.691177367	0.70685032	0.381301044	0.840560708	0.872381911	0.81369155	0.694213751
0.505301982	0.522450374	0.817589445	0.765365577	0.691164974	0.763113526	0.660051672	0.6832

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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	
0,971102228	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	0,996555104	0,990885171	0,873435401	
0,773405553	0,951990205	0,940817204	0,918571496	0,887131035	0,926790528	0,95790047	0,894706648	
0,857427281	0,80743723	0,759990732	0,829006752	0,837920071	0,931935837	0,701022566	0,776509918	
0,890946349	0,905262849	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	0,94581729	
0,987440646	0,912295419	0,971454319	0,972553615	0,980634632	0,989120694	0,99421766	0,978627672	
0,93499545	0,90355094	0,892055925	0,909575404	0,889704334	0,866429411	0,955227262	0,931940161	
0,958638776	0,9966688369	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	0,92378123	0,933532785	
0,952102255	0,87570519	0,858280327	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	0,997761002	
0,986448912	0,993123443	0,9889295	0,991190018	0,993264665	0,995838085	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	0,790198703	0,923924143	0,996107992	0,98891763	0,891121949	
0,928551289	0,829739526	0,887454686	0,898684866	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	
0,980500001	0,999919966	0,999924218	0,998447882	0,985492178	0,862997253	0,929067927	0,940419753	
0,797528252	0,650220508	0,622575239	0,739730357	0,790359046	0,965542136	0,938614281	0,698158982	
0,952133676	0,820590899	0,845946965	0,869699797	0,882294922	0,483448127	0,956761528	0,8666652716	
0,856993064	0,657289654	0,452551477	0,803398077	0,856319226	0,997471459	0,97925771	0,800084991	
0,86835834	0,914768467	0,899761724	0,917763541	0,912124773	0,995803687	0,987848772	0,975835127	
0,881456547	0,617715202	0,69717153	0,807767618	0,900465558	0,999665381	0,989856699	0,81537717	
0,856641674	0,874441696	0,875846589	0,879988067	0,891096594	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	0,761319726	0,775280603	0,818401226	0,897959088	0,917492337	0,796109448	
0,88517441	0,779526946	0,748600929	0,874481544	0,879287466	0,995660828	0,992301545	0,891292673	
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	0,89957801	
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	0,834519052	0,809009362	0,929736751	0,997558969	0,994994118	0,869947322	
0,910961553	0,784210981	0,805008009	0,89879828	0,916073754	0,996016763	0,994298256	0,922504542	
0,918851694	0,969715324	0,972934673	0,951919059	0,94362812	0,96736625	0,956577952	0,93301761	
0,949462527	0,834364229	0,849572816	0,874777894	0,890881016	0,958416796	0,957688887	0,914701278	
0,954950538	0,99872263	0,994957872	0,985956347	0,985311305	0,972267458	0,989521284	0,966790782	
0,831117728	0,816824452	0,805811316	0,830785509	0,849983843	0,877150139	0,905377969	0,862043736	
0,950946256	0,974310731	0,964045527	0,922563143	0,839386151	0,542033345	0,870091748	0,857908159	
0,905713284	0,992340734	0,979530514	0,960326516	0,785260278	0,989018413	0,939375003	0,934676859	
0,95847083	0,992834222	0,987825913	0,981912368	0,958817104	0,356406673	0,972127766	0,889881973	
0,822714681	0,999406739	0,987079727	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	0,992265275	0,992352228	0,996467273	0,992786773	0,99604545	0,995641667	
0,856958696	0,985386637	0,974557865	0,877775853	0,954294211	0,961789844	0,835717591	0,82564874	
0,74991705	0,995449406	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	
0,856619931	0,856619931	0,994210202	0,98815327	0,952366001	0,986372961	0,991402724	0,986492833	
0,844028353	0,81200182	0,777263377	0,823244815	0,839247967	0,985568673	0,97295822	0,969833965	
0,784989316	0,997111913	0,990907414	0,988824101	0,993811744	0,991973822	0,993863664	0,994165307	
NA	0,948753576	0,926685162	0,926685162	0,9203112	0,930560518	0,986003232	0,952820990	0,958707135
0,926685162	0,486700297	0,486700297	0,621761576	0,825132818	1	0,985149005	0,798487565	
0,9203112	0,621761576	0,592021996	0,592021996	0,786042507	0,996634272	0,988929975	0,804833313	
0,930560518	0,826132818	0,766042507	0,835520886	0,835520886	0,995253409	0,966705961	0,837877124	
0,986003323	1	0,996634272	0,995253409	0,998929402	NA	0,988829402	0,891289913	0,890901821
0,952829099	0,985149005	0,988829975	0,966705961	0,891289913	0,992001097	NA	0,985753786	
0,958707135	0,798487565	0,804833313	0,837877124	0,890901821	0,92694269	0,895753786	0,833622641	
0,934554028	0,998653132	0,990229035	0,950386125	0,604750807	0,989095666	0,77816194	0,833622641	
0,860411899	0,941698619	0,552427847	0,724291595	0,82116651	0,996404621	0,988857793	0,799857349	
0,998321133	0,950500753	0,940775956	0,934936781	0,789820816	0,999242083	0,963950808	0,957670147	
0,840474288	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	0,950381648	0,949014048	0,98481399	0,939360004	
0,818795205	0,768796927	0,717387						

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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	0,995560213	0,983457557	0,974186894	
0,956668044	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	0,97631601	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	0,879021392	0,90115778	0,929202764	0,962863811	0,825854365	0,88217202	
0,826272128	0,8151549567	0,926386628	0,922719204	0,940580819	0,977399914	0,940644587	0,759730659	
0,92743642	0,916199722	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	0,983854383	0,985976787	0,986356896	0,996236801	0,988514838	0,947918997	
0,992053587	0,949359391	0,980995956	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	0,994873134	0,964776086	0,924785128	
0,868190216	0,979659262	0,980134942	0,945322381	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	0,889250267	0,956923951	0,968795514	0,971726764	0,984583227	0,985601152	0,921492969	
0,807331228	0,987616325	0,990921148	0,954245682	0,977473717	0,951145572	0,84723415	0,936419663	
0,999341806	0,846297866	0,963510444	0,97419545	0,972292669	0,994046438	0,999363494	0,884274979	
0,997435155	0,996552783	0,998730872	0,980164372	0,996857065	0,977366703	0,968218875	0,995959504	
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	0,948935508	
0,895091832	0,876077888	0,950852322	0,914771805	0,953433518	0,990602011	0,970677276	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	0,878775157	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	0,964025898	0,946252902	0,969361899	0,992554205	0,976917934	0,844306016	
0,974927135	0,672676404	0,944543624	0,9421905	0,951991496	0,985517179	0,990346984	0,692365854	
0,98637096	0,878590481	0,964224648	0,837470999	0,974964672	0,988951795	0,9916547	0,916167508	
0,998681192	0,718073217	0,970952345	0,965496567	0,968774031	0,99557783	0,998735927	0,839538824	
0,898156588	0,904388938	0,952171543	0,939467411	0,910140844	0,992909492	0,977476502	0,84903246	
0,974940439	0,856548119	0,962794245	0,971109259	0,975238686	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	0,992425062	0,999417318	0,81644625	
0,835054398	0,941470434	0,938091888	0,853446229	0,944207467	0,936937596	0,9270431	0,849137262	
0,998044358	0,840282263	0,976543773	0,982923434	0,977265442	0,996700214	0,996936466	0,907087997	
0,997993891	0,841170031	0,976289704	0,977100729	0,973565959	0,996254171	0,994608132	0,892115971	
0,930680483	0,963968311	0,966662531	0,9882687592	0,940572052	0,931863727	0,836366124	0,908416193	
0,962721992	0,874278792	0,960229096	0,957652399	0,960212147	0,993106184	0,973926331	0,872269756	
0,980141919	0,996725677	0,995813734	0,953119678	0,984461428	0,96100832	0,815614773	0,977670477	
0,91015068	0,841582735	0,955911804	0,985573981	0,960353261	0,992636514	0,980009799	0,838270899	
0,790095956	0,972827386	0,66234661	0,964889759	0,98704175	0,983724728	0,919125831	0,919165829	
0,795338894	0,968050117	0,782802956	0,911883718	0,955010924	0,986713707	0,777624655	0,837922872	
0,921531356	0,990369054	0,958190319	0,955193483	0,973484799	0,965713374	0,868623653	0,951468866	
0,977971014	0,912516136	0,9829696867	0,742233794	0,845730674	0,721713442	0,703206692	0,928723808	
0,981012769	0,908496631	0,982056028	0,768104145	0,856737993	0,7800263	0,772802985	0,927914111	
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	0,440703086	0,486756268	0,934552136	
0,803244443	0,939783891	0,998057023	0,910861813	0,940851112	0,876928927	0,834566241	0,89876553	
0,775088874	0,896572414	0,946758546	0,777677316	0,973084701	0,583022987	0,516908213	0,864347942	
0,933561482	0,792496868	0,9178027	0,795118664	0,392427962	0,825826614	0,773520961	0,766637143	
0,950765921	0,924580508	0,985724505	0,790262603	0,874302881	0,799341163	0,766241413	0,937209431	
0,942180279	0,763570341	0,919783478	0,79302818	0,851715254	0,826316356	0,810454888	0,850801068	
0,988750463	0,894149615	0,996313403	0,745935771	0,830451	0,4622611738	0,508988263	0,930316873	
0,934554028	0,860411899	0,998321193	0,840074288	0,824399437	0,813742259	0,821240972	0,818795205	
0,998653132	0,491698619	0,950500573	0,929886285	0,952791369	0,989475161	0,999133988	0,7687396927	
0,990229035	0,552478748	0,940775956	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	0,985614646	0,950831648	0,648228338	
0,989905666	0,996404621	0,999242083	0,987274854	0,992184626	0,994906788	0,949014085	0,987538115	
0,77816194	0,988857793	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	
NA	0,997752899	0,940387591	0,873724427	0,985974167	0,892153957	0,893394842	0,61985162	
0,838600221	0,940387591	NA	0,95446915	0,941384172	0,983740954	0,937810408	0,876266873	
0,873724427	0,850974167	0,95446915	NA	0,818081728	0,776734746	0,766898812	0,822658021	
0,985848686	0,892153957	0,941384172	0,818081728	0,866317619	0,390253725	0,914513693	0,916500848	
0,972382111	0,874311845	0,983740954	0,776734746	0,866317619	NA	0,916500848	0,916500848	
0,919792166	0,893948482	0,937810408	0,766898812	0,886057468	0,390253725	0,659915589	0,659915589	
0,707335063	0,69185162	0,876266873	0,822					

								bray
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	0,632509945	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	
0,898850406	0,750873284	0,88153547	0,684238497	0,759251915	0,89580239	0,926465215	0,886371586	
0,976117258	0,970496709	0,965347013	0,958982137	0,906537114	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	0,648998255	0,634928611	0,793795926	0,804015512	0,835530394	0,847237723	0,883746285	
0,957102988	0,732339488	0,888845616	0,918612758	0,889045423	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	0,983908019	
0,97484385	0,98009725	0,967266933	0,980638213	0,979660233	0,979265427	0,990716909	0,991136942	
0,958701263	0,837599614	0,953654677	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	0,932090007	0,956602218	
0,836939613	0,914497192	0,83176052	0,912080825	0,745674952	0,822998397	0,932157115	0,797653665	
0,971804824	0,7417017	0,838711897	0,966995695	0,511156969	0,943076091	0,94097364	0,982858717	
0,965006729	0,5880053	0,739929296	0,61427078	0,933020466	0,906229778	0,912681202	0,971083997	
0,984360996	0,993515693	0,898715152	0,950999494	0,942517149	0,993028444	0,995039626	0,950839504	
0,995760766	0,995429183	0,996714633	0,992284189	0,997948338	0,992723881	0,998583369	0,993544304	
0,986393952	0,990419999	0,986759308	0,987990762	0,989082603	0,971367482	0,992419179	0,969509898	
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	0,982281561	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	0,898959509	0,886955711	0,739690086	0,8890337409	0,8456558	0,921320534	
0,931647511	0,886804413	0,86169292	0,821152227	0,671013644	0,949066268	0,950764887	0,946825833	
0,995985353	0,805079622	0,940580365	0,854800147	0,959342841	0,964659466	0,956073037	0,997392584	
0,911930325	0,926374371	0,819229831	0,79779144	0,9794374099	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	0,96941961	0,978425027	0,903589419	
0,980939518	0,990174479	0,943728439	0,961349671	0,937452439	0,979267395	0,985318684	0,956071225	
0,988020352	0,99487636	0,845046103	0,847176568	0,707050368	0,998310696	0,99487953	0,960723701	
0,884945458	0,910946967	0,942752489	0,893340773	0,659517862	0,91115819	0,88787288	0,931813614	
0,972655873	0,987550744	0,919412678	0,944661131	0,6595361614	0,975271287	0,984640485	0,956348227	
0,884104356	0,882174145	0,911809651	0,790619293	0,733294861	0,922578456	0,939106883	0,947538111	
0,98832739	0,990541116	0,898806962	0,872993555	0,727662609	0,993165136	0,994890143	0,959571876	
0,985513287	0,994441058	0,885387105	0,87506379	0,672356172	0,993169291	0,995675352	0,957738185	
0,987184908	0,995297329	0,897856326	0,932324704	0,807840975	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	0,896666039	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	0,905548087	0,745194129	0,994304096	0,995503871	0,968248463	
0,893129433	0,933583557	0,931463021	0,925245272	0,948282789	0,859199889	0,968975632	0,846943618	
0,95061784	0,930722493	0,905963088	0,85080765	0,955195093	0,955187655	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	0,540187191	0,848004047	0,673654815	0,883666807	0,889954821	0,827890801	0,857332215	
0,840902954	0,931304105	0,915638963	0,926522077	0,883732366	0,726190871	0,84129093	0,547845232	
0,938600496	0,523787348	0,989600895	0,565862074	0,94252538	0,821381152	0,956483016	0,87945688	
0,977420381	0,867649804	0,847160531	0,888228448	0,983186794	0,888090432	0,986447265	0,926881956	
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	0,878659696	0,933248112	0,937002531	
0,991595893	0,861918416	0,818338375	0,875630163	0,994949962	0,874916438	0,996609531	0,918631965	
0,982739592	0,803688454	0,757569423	0,855403015	0,861318091	0,755846624	0,848168407	0,955008886	
0,905004327	0,748404648	0,867294877	0,803273398	0,873883849	0,743113606	0,882512414	0,815004294	
0,916943145	0,847860810	0,716520651	0,825500857	0,90248101	0,846363934	0,960994918	0,916237166	
1	0,887791717	0,880530397	0,901460509	0,998958547	0,926473544	0,994382022	0,963744206	
0,937824515	0,873622445	0,803035234	0,890630292	0,434734886	0,864278703	0,957016777	0,930966021	
0,98478165	0,860933679	0,817109080	0,872210428	0,909066051	0,871968191	0,9930902	0,920726447	
0,975183109	0,855451697	0,780161666	0,811329315	0,944581489	0,872643089	0,95388062	0,872326277	
0,975487512	0,992918757	0,657045482	0,870530757	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	0,708001869	0,918918919	0,847860404	0,947935481	0,970955452	0,900422951	
0,645695588	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	0,99113074	0,988131874	
0,882707005	0,597325066	0,838395021	0,963351283	0,844411322	0,836358808	0,861974808	0,939687023	
0,892528214	0,901374479	0,883261657	0,734477547	0,804455886	0,830431686	0,820389566	0,917151036	
0,600079055	0,877696687	0,870385692	0,954544753	0,686003374	0,700687094	0,744259493	0,733540759	
0,964252472	0,939497125	0,827992313	0,798982458	0,951790867	0,771744048	0,954754022	0,7912665	
0,866666667	0,979644463	0,930852979	0,996138456	0,869267382	0,883859667	0,846126857	0,786999071	
0,8217725	0,865653061	0,834283224	0,867740739	0,90379741	0,815532172	0,922094	0,844209935	
0,933186376	0,902580125	0,843138338	0,907914365	0,95799266	0,907703947	0,985938847	0,935510656	
0,967679505	0,883544007	0,81589352	0,854342375	0,879699786	0,825896002	0,98332981	0,868883484	
0,929556533</								

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	0.985612626	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	0.952333707	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	0.753948242	0.972854242
0.915771658	0.869756512	0.706177063	0.990660253	0.928480374	0.990324189	0.919530817	0.991473225
0.912920165	0.825635977	0.923521507	0.900684724	0.838949826	0.817562968	0.914180269	0.908074112
0.891500955	0.757715846	0.572103418	0.860018114	0.8663112	0.769276334	0.486986138	0.950884332
0.945561696	0.900614298	0.7999585483	0.952766857	0.959801367	0.954795585	0.802214301	0.973934843
0.937747431	0.729097879	0.876768633	0.970554504	0.946734285	0.931741743	0.922048173	0.984088855
0.963432891	0.819577775	0.96033505	0.996485166	0.983316869	0.988436683	0.963926864	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	0.792303854	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	0.959758767	0.937620242	0.99509095
0.99862763	0.993135436	0.995685097	0.978021711	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
0.889853778	0.934941373	0.823717779	0.993638982	0.959803377	0.994261436	0.962607381	0.994060017
0.900356577	0.932483075	0.8860316383	0.961577109	0.919022445	0.950830239	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
0.880764647	0.830002017	0.8068561699	0.966224311	0.924727442	0.955281461	0.918278105	0.982101677
0.994222785	0.844826134	0.945120031	0.964941121	0.993896866	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	0.978623516	0.96345153	0.97828146	0.90145583	0.983146936
0.956148615	0.897558605	0.91862671	0.992907485	0.963086574	0.983426779	0.930244508	0.991214308
0.897760768	0.910245038	0.745241778	0.993377656	0.950856121	0.996287943	0.946228908	0.996080975
0.889798717	0.850298775	0.860439443	0.966624806	0.946007379	0.885841833	0.861847209	0.964674023
0.911137938	0.913441117	0.842181793	0.992710531	0.935342397	0.981962576	0.93193226	0.990896002
0.85600796	0.814284953	0.867461362	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
0.92904287	0.916103874	0.794986487	0.994780364	0.95315778	0.996129519	0.948668472	0.994301193
0.941336254	0.903052765	0.787665333	0.993963809	0.95679945	0.994100774	0.95020997	0.993462049
0.864919601	0.914679283	0.735235693	0.992937601	0.934723088	0.994050589	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
0.944878764	0.931149448	0.844925952	0.994179474	0.959986079	0.996177913	0.962398552	0.99642728
0.95904953	0.916870169	0.950310104	0.8765661908	0.881090972	0.769584529	0.936930592	0.838433293
0.921586203	0.895606757	0.8328684	0.975956506	0.930705123	0.949879226	0.939407966	0.977616204
0.993387215	0.944242695	0.993062126	0.937431854	0.973847609	0.84403755	0.97898304	0.920067211
0.920150353	0.772205078	0.7722870751	0.954279304	0.93729858	0.913394969	0.873759131	0.982118021
0.756744289	0.552448544	0.842020561	0.888381532	0.9383921	0.932254743	0.819748319	0.952346894
0.883307892	0.931082222	0.954182662	0.741624011	0.735365689	0.822600515	0.924560746	0.880744063
0.9720260461	0.352414753	0.993923319	0.947799682	0.933160141	0.917164164	0.968562939	0.941271139
0.990142011	0.958172927	0.989998889	0.797489802	0.440999563	0.763197631	0.970391029	0.969303997
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	0.706850332	0.817854945	0.695273632	0.690367622	0.970098624
0.954723633	0.922205037	0.886837632	0.3831300144	0.693655779	0.687661421	0.816856741	0.917113438
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	0.808033492	0.991528674	0.997022016
0.920254263	0.854745504	0.727674713	0.81369155	0.660051672	0.817082568	0.878069568	0.977609747
0.994349072	0.962401141	0.993942655	0.694213751	0.68323119	0.683920115	0.980727502	0.96882602
0.979773296	0.837288136	0.9128641	0.790206458	0.775071747	0.785118734	0.89432925	0.979759572
0.821084448	0.881904954	0.534293463	0.986477474	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	0.8262689914	0.630831643	0.97039096	0.878664495	0.9629924358	0.891167276	0.973644278
0.580916673	0.885301235	0.810438301	0.924211457	0.873691161	0.888448457	0.880971555	0.944261199
0.993318741	0.517229756	0.991168066	0.9797322	0.983024612	0.982816536	0.986451869	0.986797471
0.917212203	0.984484459	0.78131902	0.898519527	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	0.72120527	0.814466138	0.844115438
0.850164443	0.836275466	0.639803847	0.897297518	0.800110905	0.909011673	0.895909816	0.985703885
0.685219849	0.9327085195	0.9371719308	0.969666373	0.925751566	0.934503702	0.927430753	0.912439985
0.925068843	0.948850313	0.954241056	0.8165654036	0.686765137	0.705224793	0.949914269	0.857596429
0.970916156	0.938048098	0.944942978	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	0.889906309	0.994868384	0.615997681	0.66470273	0.684745908	0.968120845	0.925570463
0.771232317	0.904809575	0.779096164	0.910675612	0.925584954	0.75618852	0.842410335	0.898561054
0.892251599	0.939567618	0.959112814	0.756900553	0.783223188	0.539414894	0.804642717	0.829196363
0.845558285</							

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UZ.P122	UZ.P123
0.988423126	0.892726052
0.99012326	0.912120742
0.989461162	0.964902611
0.990397898	0.94517386
0.993630935	0.925782078
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	0.87694268
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
0.326668817	0.94566896
0.888733659	0.914468681
0.690360596	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	0.8287986712
0.681204284	0.81975452
0.835582644	0.884670994
0.6170724	0.946383409
0.596359105	0.917439932
0.898103359	0.592718966
0.960482708	0.731244814
0.864254127	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	0.858171428
0.665505464	0.720727161
0.957662891	0.824904745
0.930408848	0.816397229
NA	0.902471805
NA	NA
0.902471805	NA

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	0.81884058	0.795454545	0.616071429	0.816793893	0.626086957	0.692307692	0.654205607
UZ.P067 0.81884058 NA		0.90625	0.737704918	0.533333333	0.792307692	0.784	0.837398374
UZ.P068 0.795454545	0.90625 NA		0.756410256	0.872093023	0.795180723	0.782051282	0.788732394
UZ.P069 0.616071429	0.737704918	0.756410256 NA		0.74137931	0.657657658	0.702702703	0.689320388
UZ.P070 0.816793893	0.533333333	0.872093023	0.657657658	0.758333333 NA	0.758333333	0.809917355	0.805309735
UZ.P071 0.626086957	0.792307692	0.795180723	0.702702703	0.663636364 NA	0.663636364	0.591836735	0.642857143
UZ.P072 0.692307692	0.784	0.782051282	0.809917355	0.6943736842	0.693877551	0.677777778	
UZ.P073 0.654205607	0.837398374	0.788732394	0.689320388	0.805309735	0.709401709	0.730434783	0.719626168
UZ.P074 0.831858407	0.621052632	0.825396825	0.794117647	0.602272727	0.825242718	0.857142857	
UZ.P075 0.712962963	0.810344828	0.791044776	0.712871287	0.818181818	0.656565656	0.698172043	0.62195122
UZ.P076 0.723577236	0.7	0.821428571	0.642201835	0.701754386	0.677083333	0.688172043	0.677419355
UZ.P077 0.628865979	0.810810811	0.75	0.694736842	0.830188679	0.739130435	0.770114943	
UZ.P078 0.834782609	0.757009346	0.882352941	0.820754717	0.75	0.814814815	0.861111111	0.824742268
UZ.P079 0.874444444	0.857142857	0.720930233	0.731707317	0.804597701	0.770114943	0.8	0.708333333
UZ.P080 0.631067961	0.861788618	0.779411765	0.742857143	0.842105263	0.65	0.631578947	0.593023256
UZ.P081 0.860869565	0.724137931	0.71875	0.828571429	0.701030928	0.726315789	0.727272727	
UZ.P082 0.761467899	0.824561404	0.737704918	0.714285714	0.788461538	0.722772277	0.708333333	0.662790698
UZ.P083 0.706422018	0.842975207	0.779411765	0.705882353	0.831858407	0.738317757	0.7	0.698924731
UZ.P084 0.717171717	0.864864865	0.745454545	0.744680851	0.843137255	0.75257732	0.739130435	0.770114943
UZ.P085 0.806818182	0.905263158	0.694444444	0.8	0.870588235	0.807228916	0.825	0.802816901
UZ.P086 0.862068966	0.649484536	0.911674606	0.77	0.648351648	0.844036697	0.858490566	0.88
UZ.P087 0.887640449	0.923076923	0.633333333	0.846153846	0.888888889	0.879518072	0.857142857	0.855072464
UZ.P088 0.829545455	0.903225806	0.783783784	0.825	0.880952381	0.872093023	0.805194805	0.797101449
UZ.P089 0.787878788	0.855769231	0.76	0.78021978	0.793478261	0.747252747	0.761363636	0.765432099
UZ.P090 0.678899083	0.734513274	0.71641791	0.59375	0.714285714	0.685714286	0.683168317	0.694736842
UZ.P091 0.792349272	0.543046358	0.883561644	0.74556213	0.623376623	0.778409091	0.779069767	0.781818182
UZ.P092 0.743421053	0.8125	0.853448276	0.77027027	0.802631579	0.75	0.767123288	0.760869565
UZ.P093 0.659574468	0.822580645	0.780821918	0.633663366	0.789473684	0.603960396	0.679611165	0.556818182
UZ.P094 0.615376147	0.823525806	0.866666667	0.727272727	0.564102564	0.751824818	0.751879699	0.782945736
UZ.P095 0.620268959	0.728	0.8	0.63963964	0.731092437	0.660869565	0.726495726	0.727272727
UZ.P096 0.929411765	0.953488372	0.777777778	0.891891892	0.962025316	0.9375	0.918918919	0.940298507
UZ.P097 0.606837607	0.767441816	0.616071429	0.663793103	0.64957265	0.692307692	0.678899083	
UZ.P098 0.700854701	0.792	0.765321579	0.808333333	0.684684685	0.763157895	0.730769231	
UZ.P099 0.787671233	0.545454545	0.866666667	0.727272727	0.564102564	0.751824818	0.751879699	0.782945736
UZ.P100 0.801980198	0.823529412	0.7864861538	0.727272727	0.769230769	0.736263736	0.764044944	0.797619048
UZ.P101 0.8125	0.610294118	0.918032787	0.716312057	0.607692308	0.805194805	0.837662338	0.819444444
UZ.P102 0.705357143	0.809091735	0.791666667	0.740740741	0.807017544	0.663461538	0.735849057	0.687911667
UZ.P103 0.778868525	0.642201835	0.87654321	0.75	0.6	0.777777778	0.767857143	0.759615385
UZ.P104 0.704761905	0.805309735	0.741935484	0.663157895	0.790476191	0.686868687	0.670212766	0.666666667
UZ.P105 0.813333333	0.638461538	0.857142857	0.757352941	0.637096774	0.797202797	0.807142857	0.846715328
UZ.P106 0.849206349	0.654205607	0.898734177	0.636336364	0.586421053	0.801724138	0.86440678	0.831775701
UZ.P107 0.803418803	0.742424242	0.718446602	0.8	0.714285714	0.760444944	0.797619048	
UZ.P108 0.829787383	0.623655914	0.873015873	0.775510204	0.695652174	0.794117647	0.757894737	0.815217391
UZ.P109 0.867816092	0.537313433	0.938931298	0.839506173	0.607407407	0.869824245	0.858895706	0.872611465
UZ.P110 0.774474775	0.826086957	0.721311475	0.704081633	0.778846154	0.737864078	0.737373737	0.739130435
UZ.P111 0.824742268	0.77173913	0.782608696	0.75	0.786516854	0.816091954	0.794871795	
UZ.P112 0.810606061	0.655172414	0.821428571	0.786885246	0.654545455	0.782280565	0.79338843	0.838983051
UZ.P113 0.704170429	0.803418803	0.742424242	0.718446602	0.8	0.714285714	0.769824731	
UZ.P114 0.6	0.785714286	0.827054742	0.771168441	0.629692693	0.638095238	0.574468085	
UZ.P115 0.777272727	0.885416667	0.717948718	0.746835443	0.887640449	0.771048337	0.772151899	0.705882353
UZ.P116 0.596330275	0.666666667	0.8125	0.615384615	0.736842105	0.586538462	0.621359223	0.628865979
UZ.P117 0.854166667	0.898989899	0.869565217	0.865168539	0.913978495	0.857142857	0.862068966	0.875
UZ.P118 0.896226415	0.807179487	0.790322581	0.734693878	0.827272727	0.690721649	0.755102041	0.730330709
UZ.P119 0.777559745	0.871287129	0.787234043	0.76744186	0.827340426	0.73255814	0.804597701	0.733333333
UZ.P120 0.809090909	0.655172414	0.821428571	0.786885246	0.654545455	0.782280565	0.79338843	0.838983051
UZ.P121 0.822916667	0.901967844	0.829787383	0.781818181	0.893617021	0.824175824	0.827586207	0.8375
UZ.P122 0.867710843	0.977710843	0.827054742	0.771168441	0.804255319	0.853522727	0.835440308	
UZ.P123 0.705882353	0.913043438	0.851056383	0.759036145	0.904255319	0.835164835	0.852272727	
UZ.P124 0.887640449	0.923076923	0.757575758	0.860759494	0.902439024	0.851851852	0.871794872	0.871428571
UZ.P125 0.855670103	0.855670103	0.875	0.788235294	0.773809524	0.781609195	0.865168539	0.773333333
UZ.P126 0.909090909	0.608333333	0.952380952	0.864285714	0.663865546	0.890410959	0.902097902	0.935251799
UZ.P127 0.8490539216	0.8490539216	0.897435897	0.76146789	0.62244898	0.810344828	0.863247863	0.862385321
UZ.P128 0.698113208	0.890410959	0.737864078	0.785046729	0.733333333	0.803738318	0.81	
UZ.P129 0.862385321	0.883333333	0.851458149	0.873786408	0.785714286	0.882325941	0.846153846	
UZ.P130 0.821052632	0.878787879	0.851056383	0.759036145	0.904255319	0.853522727	0.835440308	
UZ.P131 0.887640449	0.922727273	0.885416667	0.717948718	0.746835443	0.771048337	0.815217391	
UZ.P132 0.596330275	0.666666667	0.8125	0.615384615	0.736842105	0.586538462	0.621359223	0.628865979
UZ.P133 0.891304348	0.890109898	0.879518072	0.865853659	0.88372093	0.87654321	0.861111111	
UZ.P134 0.768518519	0.871794872	0.790322581	0.734693878	0.827272727	0.690721649	0.755102041	0.730330709
UZ.P135 0.814076196	0.861111111	0.9	0.789473684	0.926315789	0.779069767	0.823529412	0.822916667
UZ.P136 0.841584158	0.945454545	0.865384615	0.826068957	0.961538462	0.878787879	0.872340426	0.897727273
UZ.P137 0.882235294	0.651785714	0.931818182	0.846774194	0.723214286	0.876923077	0.88976378	0.909090909
UZ.P138 0.886363636	0.956989247	0.918918919	0.901234568	0.952941176	0.917647059	0.9125	0.91048451
UZ.P139 0.782606966	0.823525857	0.849736842	0.845360825	0.883611108	0.763358779	0.819548872	0.834645669
UZ.P140 0.891304348	0.890109898	0.842105263	0.851851852	0.905882353	0.857142857	0.890243902	0.891891892
UZ.P141 0.701098901	0.910891089	0.847826087	0.813953488	0.926315789	0.779069767	0.823529412	0.802631579
UZ.P142 0.887640449	0.922727273	0.885416667	0.803873443	0.851056383	0.853522727	0.835440308	
UZ.P143 0.922727273	0.855670103	0.875	0.788235294	0.773809524	0.781609195	0.865168539	0.773333333
UZ.P144 0.819047619	0.861111111	0.9	0.789473684	0.926315789	0.779069767	0.823529412	0.822916667
UZ.P145 0.842605381	0.945454545	0.865384615	0.826068957	0.961538462	0.878787879	0.872340426	0.897727273
UZ.P14							

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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	0.720930233	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	0.717391304	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	0.701030928 NA	0.666666667	0.829545455	0.757575758	0.58974359		
0.831578947	0.717391304	0.666666667 NA	0.835051546 NA	0.835051546	0.756756757	0.681318681		
0.621621622	0.864583333	0.834862385	0.829545455	0.893333333	0.867346939	0.732394366		
0.85915493	0.794520548	0.808988764	0.757575758	0.756756757	0.732394366 NA			
0.87628866	0.651162791	0.759259259	0.58974359	0.681318681	0.867346939	0.732394366 NA		
0.863633634	0.811111111	0.724489796	0.768292683	0.678571429	0.859332584	0.753846154	0.670731707	
0.842696629	0.736532184	0.732673267	0.649305649	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	0.711644007	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	0.686292308	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	0.842975207	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	0.669656217	0.683673469	0.650485437	0.849557522	0.78888889	0.731481481	
0.886792453	0.935483871	0.923076923	0.888888889	0.90625	0.910714246	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	0.670329367	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	0.877551102	0.780879474	0.864285714	0.826388889	0.73015873	0.851239669	0.871621622	
0.822916667	0.762886598	0.767857143	0.658582359	0.622222222	0.85	0.763157895	0.659340659	
0.623529412	0.841121495	0.732142857	0.770833333	0.780952381	0.760416667	0.847058824	0.833333333	
0.776470588	0.738636364	0.745752816	0.670886076	0.707865169	0.847826087	0.802816901	0.670588223	
0.660550459	0.858208955	0.704545455	0.8515625	0.819548872	0.713043478	0.866071429	0.868613139	
0.668046512	0.857142857	0.745454545	0.87127129	0.807692308	0.67816092	0.853658537	0.900900901	
0.652777778	0.844444444	0.767676768	0.804878049	0.838709677	0.792628297	0.852941176	0.835164835	
0.69047619	0.911392405	0.774193548	0.893333333	0.871794872	0.753731343	0.918518519	0.932515337	
0.831460674	0.752808989	0.745752816	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	0.817931304	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	0.633933333	0.614583333	0.796116059	0.696202532	0.621052632	
0.882352941	0.761194043	0.783132535	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	0.907407407	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	
0.8695656217	0.819444444	0.842696629	0.784615385	0.780821918	0.904109589	0.824324324	0.875	
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	0.7884615138	0.725	0.755555556	0.880434783	0.757575758	0.705823535	
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	0.867112329	0.826923077	0.813333333	
0.901639344	0.84375	0.864197531	0.827586207	0.818181818	0.904761905	0.829262893	0.830769231	
0.769230769	0.87012987	0.779069767	0.808823259	0.818181818	0.738461538	0.849056604	0.858974359	
0.679611655	0.940740741	0.807407407	0.937984496	0.911111111	0.778616062	0.955357143	0.978873239	
0.666666667	0.855769231	0.765767566	0.87	0.871559633	0.836734694	0.892857143	0.9	
0.797752809	0.774193548	0.789889026	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	0.905630637	0.920634921	0.946428571	0.882352941	0.918032787	
0.887323944	0.771428571	0.844444444	0.787878788	0.783783784	0.934210256	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	0.944444444	0.86746988	
0.709677419	0.895652174	0.821138211	0.909090991	0.870686955	0.767676768	0.925531915	0.951219512	
0.935483871	0.859375	0.929411765	0.883333333	0.945205479	0.969669697	0.906967644	0.863636364	
0.837606683	0.788135593	0.833333333	0.848739496	0.764705882	0.830504875	0.833333333	0.850746269	
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	0.904719705	0.87654321	0.877777778	0.917647059	0.873015873	0.875	
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	0.910981089	0.8219					

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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	0,843137255	0,870588235	0,648351648	0,888888889
	0,828571429	0,788461538	0,831858407	0,843137255	0,870588235	0,648351648	0,888888889	0,880952381
	0,701030928	0,727272277	0,738317757	0,75257732	0,807228916	0,844036697	0,879518072	0,872093023
	0,726315789	0,708333333	0,7	0,739130435	0,825	0,858490566	0,857142857	0,805194805
	0,727272277	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	0,696629213	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
	0,768292683	0,649350649	0,69047619	0,72	0,786885246	0,902173913	0,847457627	0,838709677
	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	0,727272277	0,783783784	0,711864407	0,714285714	0,859154943	0,769230769	0,844444444
	0,670731707	0,712643678	0,744680851	0,716049383	0,828571429	0,931372549	0,865671642	0,805970149
NA								
	0,7125 NA	0,7125	0,747126437	0,698630137	0,783333333	0,850574713	0,824561404	0,754385965
	0,727272277	0,727272277	0,666666667	0,757575758	0,692307692	0,841463451	0,78413725	0,825396825
	0,747126437	0,727272277 NA	0,666666667 NA	0,755102041	0,794520548	0,829787234	0,843137255	0,821428571
	0,698630137	0,775	0,666666667 NA	0,802816901	0,782608696	0,855072464	0,814285714	0,810810811
	0,783333333	0,8125	0,757575758	0,692307692 NA	0,890410959	0,714285714	0,916666667	0,904109589
	0,850574713	0,892473118	0,827956989	0,841463451	0,871794872	0,839416058	0,913793103	0,890625
	0,824561404	0,833333333	0,793650794	0,784313725	0,709677419	0,919354839 NA	0,919354839	0,8125
	0,754385965	0,825396825	0,75	0,821428571	0,810810811	0,890625	0,8125 NA	
	0,794520548	0,77027027	0,756410256	0,779411765	0,755102041	0,794520548	0,829787234	0,843137255
	0,727272277	0,722222222	0,67032967	0,758513953	0,802816901	0,782608696	0,855072464	0,814285714
	0,847560976	0,807453416	0,835294118	0,864197531	0,890410959	0,714285714	0,916666667	0,904109589
	0,776923077	0,808823259	0,782608696	0,80620155	0,871794872	0,839416058	0,913793103	0,898305085
	0,746666667	0,706666667	0,743902439	0,763888889	0,759259259	0,86746988	0,849056604	0,796296296
	0,722222222	0,674157303	0,708333333	0,720930233	0,777777778	0,87254902	0,828571429	0,853333333
	0,72	0,798165138	0,70754717	0,731958673	0,797619048	0,757215153	0,869047619	0,835294118
	0,886792453	0,931034483	0,8855245902	0,826086957	0,769230769	0,964912281	0,818181818	0,846153846
	0,777777778	0,6633366337	0,694444444	0,778846154	0,820224719	0,754716981	0,875	0,855555556
	0,695652174	0,71875	0,759615385	0,763440806	0,776315789	0,846153846	0,84	0,848101266
	0,701666667	0,806451613	0,777777778	0,813559322	0,854368932	0,644859813	0,912612359	0,862745098
	0,797297297	0,789473684	0,775	0,764705882	0,807692308	0,858974359	0,857142857	0,867924528
	0,846715328	0,841726619	0,840277778	0,875	0,88034188	0,637931034	0,931623932	0,906779661
	0,715909091	0,725274725	0,767676768	0,744186047	0,837837838	0,892156863	0,888888889	0,864864865
	0,841584158	0,811881188	0,8	0,845360825	0,888888889	0,7	0,936708861	0,842105263
	0,746987952	0,741176471	0,701149425	0,730769231	0,805746269	0,831460674	0,890625	0,80952381
	0,841269841	0,826771654	0,843283582	0,853658537	0,855769231	0,684684685	0,902912621	0,906542056
	0,84693876	0,84	0,838095238	0,863157895	0,868421053	0,62195122	0,888888889	0,864864865
	0,845238095	0,837209302	0,822222222	0,820512821	0,852459016	0,686189189	0,915254237	0,885245902
	0,907284768	0,894736842	0,87012987	0,904109589	0,904761905	0,68	0,952380952	0,92133858
	0,7	0,741176471	0,701149425	0,7625688172	0,794871795	0,765306122	0,857142857	0,805194805
	0,8111594203	0,866666667	0,786666667	0,833333333	0,777777778	0,633333333	0,804878049	0,822222222
	0,798076923	0,792452833	0,792792793	0,847058824	0,865913978	0,920792079	0,87804878	0,857142857
	0,73255814	0,697674419	0,717931304	0,683544304	0,757575758	0,815217391	0,848448484	0,873239437
	0,702142766	0,635416667	0,714285714	0,8125	0,78	0,844155844	0,851851852	
	0,711864407	0,704918033	0,768115942	0,709090909	0,775	0,929577445	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	0,945945946	0,928571426	0,8606465116
	0,837837838	0,844155844	0,797468354	0,777272727	0,8635834615	0,963855422	0,918367347	0,903846154
	0,761194043	0,788732394	0,722222222	0,7	0,727272727	0,878378378	0,837209302	0,85106383
	0,85483871	0,878787879	0,857142857	0,8	0,871794872	0,970144493	0,882352941	0,923076923
	0,818181818	0,826086957	0,774647887	0,783333333	0,840909091	0,916666667	0,902439024	0,886363636
	0,85915493	0,816901408	0,754098361	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	0,775584906	0,771428571	0,923076923	0,84375	0,891891892
	0,705128205	0,761904762	0,791207891	0,666666667	0,786885246	0,902173913	0,866666667	0,875
	0,852272727	0,844444444	0,764049444	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
	0,805971049	0,847222222	0,797297297	0,728813559	0,795454545	0,888888889	0,880952381	0,866666667
	0,803571429	0,813559322	0,830769231	0,807692308	0,787878788	0,936507937	0,785714266	0,882352941
	0,823529412	0,7971011449	0,797297297	0,790322581	0,767441816	0,769230769	0,880952381	0,866666667
	0,929138585	0,946969697	0,901515152	0,926269508	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	0,840547971	0,797752809	0,927536232	0,916666667	
	0,851851852	0,870588235	0,866666667	0,862608966	0,892857143	0,928571429	0,915254237	
	0,924582302	0,888888889	0,918032787	0,869565217	0,8946153846	0,982142857	0,909090909	0,88
	0,820895522	0,867612329	0,794520548	0,745762712	0,790697674	0,960526316	0,930232558	0,863636364
	0,835443038	0,895348837	0,852272727	0,791666667	0,859649123	0,891666667	0,964912281	0,894736842
	0,881578947	0,913580247	0,880952381	0,84057971	0,862745098	0,988095238	0,916666667	0,923076923
	0,909090909	0,901785714	0,8686421053	0,883495146	0,879518072	0,651685393	0,951807229	0,941860465
	0,935483871	0,938461538	0,928571429	0,840956064	0,916666667	0,952380952	0,935483871	0,878787879
	0,763636364	0,801724138	0,81147541	0,764150943	0,876288666	0,866666667	0,8804434783	0,885416667
	0,844197531	0,864197531	0,833333333	0,782608966	0,804878049	0,929577445	0,837837838	0,853658537
	0,870967742	0,859375	0,838235294	0,796296296	0,805555556	0,90625	0,878787879	0,9487717949
	0,866666667	0,85483871	0,867647059	0,833333333	0,861111111	0,985074627	0,870967742	0,885714286
	0,819148936	0,824742268	0,8660465116	0,816901408	0,830188679	0,858974359	0,923076923	0,

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UZ.P092	UZ.P093	UZ.P094	UZ.P095	UZ.P096	UZ.P097	UZ.P058	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
0.78021978	0.59375	0.74556213	0.77027027	0.685393258	0.740740741	0.780821918	0.8
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	0.67981165	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
0.766233766	0.747368421	0.826347305	0.797101449	0.78313253	0.659340659	0.714285714	0.935483871
0.797872734	0.682692308	0.6867116564	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	0.798414433	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	0.808823259	0.706666667	0.674157303	0.798165138	0.931034483
0.756410256	0.670323967	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	0.86746988	0.872549042	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
NA	0.780487805	0.780487805	0.827814537	0.824	0.738461538	0.743092433	0.725274725
0.780487805	NA	0.711538462	0.760869565	0.675	0.704081633	0.666666667	0.907692308
0.827814537	0.711538462	NA	0.666666667	0.819354839	0.819354839	0.738372093	0.972222222
0.824	0.760869565	0.666666667	NA	0.756097561	0.756097561	0.739130435	0.761589404
0.738461538	0.675	0.819354839	0.756097561	0.686746988	0.686746988	0.688172043	0.872340426
0.743902439	0.704081633	0.813953488	0.739130435	0.686746988	0.723214286	0.723214286	0.927536232
0.725274725	0.666666667	0.738372093	0.761589404	0.688172043	0.723214286	0.925925926	NA
0.906976744	0.907692308	0.972222222	0.946428571	0.872340426	0.927536232	0.925925926	NA
0.775510204	0.56	0.693207692	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	0.745664474	0.839694656	0.838926174	0.776315789	0.982608696
0.797619048	0.713140206	0.797619048	0.735294118	0.679012346	0.652631579	0.694444444	0.909090909
0.806818182	0.670103093	0.662337662	0.802721088	0.793472861	0.788990826	0.705357143	0.944444444
0.789473684	0.681818182	0.81595092	0.81884058	0.638888889	0.692307692	0.718446602	0.913793103
0.781818182	0.765625	0.558282209	0.710691824	0.842975207	0.824817518	0.748201439	0.95
0.78313253	0.75	0.696774194	0.813793103	0.836956522	0.803738318	0.794871795	0.956521739
0.866666667	0.775280899	0.751677852	0.838520896	0.833333333	0.833333333	0.774509084	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	0.7948671795	0.8125	0.835658537	0.830769231	0.7875	0.777777778	0.891891892
0.810526316	0.719626168	0.636942675	0.765100671	0.833333333	0.803416803	0.761061947	0.923076923
0.756410256	0.717265957	0.8	0.717575252	0.743902439	0.734693878	0.719626168	0.920634921
0.720930233	0.723809524	0.758283529	0.725352113	0.681818182	0.587628866	0.660714286	0.934210526
0.836363636	0.777777778	0.892617454	0.855932023	0.75	0.7	0.804597701	0.870967742
0.747126437	0.6	0.734939759	0.758620699	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
0.754384205	0.766233766	0.868421053	0.836065574	0.758064516	0.710526316	0.819148936	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	0.95621739	0.963414634	0.857142857
0.807017544	0.820512821	0.880794702	0.905511811	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	0.853040136	0.870932258	0.825396825	0.797468354	0.838709767	0.945945946
0.882288283	0.84375	0.58490566	0.765822785	0.916666667	0.920970814	0.845070423	0.983361702
0.863636364	0.796116505	0.694805195	0.864286078	0.855855856	0.761061947	0.971014493	0.923076923
0.8125	0.833333333	0.804878049	0.839160839	0.865168539	0.767676768	0.794642857	0.952308952
0.875	0.846153846	0.883435583	0.857142857	0.824324324	0.826066957	0.836553846	0.96
0.928571429	0.973837878	0.971830986	0.954545455	0.9375	0.925373134	0.950617284	0.857142857
0.844827586	0.86265	0.901960784	0.87804878	0.822580645	0.794871795	0.824742268	0.848484848
0.888888889	0.844444444	0.868675	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	0.633986926	0.790540541	0.893203863	0.902439024	0.825396825	0.987179487
0.981130205	0.931506849	0.945572831	0.940677966	0.909090909	0.890410959	0.931818182	1
0.830188679	0.825396825	0.783738784	0.783738784	0.818181818	0.811023622	0.802919708	0.93258427
0.884057971	0.839080466	0.866242038	0.84375	0.876923077	0.844444444	0.841584158	0.909090909
0.816326531	0.845070423	0.910958904	0.897435897	0.877192982	0.835616438	0.847058824	0.925925926
0.857142857	0.904010959	0.939181989	0.905172414	0.830186879	0.847222222	0.88372093	0.92
0.821428571	0.794174647	0.809523811	0.843537415	0.820224719	0.8	0.791304348	0.955232881
0.931506849	0.891304348	0.934523811	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	0.876923077	0.880952381	0.861702128	0.914285714
0.904477661	0.845238095	0.93902439	0.892307692	0.855072464	0		

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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	0.75	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	0.7979169048	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	0.662170543	0.774193548	0.788079474	0.767857143	0.732142857	0.747572816	
0.656565657	0.67032967	0.81300813	0.767123288	0.864285714	0.658823529	0.770833333	0.670886076	
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	0.871621622	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	0.854638932	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	0.8484101266	0.868745098	0.867924528	0.906779961	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	0.711304206	0.670103093	0.681818182	
0.692307692	0.69375	0.555555555	0.828947368	0.538461538	0.797619048	0.662337662	0.81595092	
0.775641026	0.664179104	0.748462658	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	0.798992481	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	0.938775551	0.88372093	0.982608696	0.909090909	0.944444444	0.913793103	
NA	0.700854701	0.659090909	0.739583333	0.661971831	0.669724771	0.620370337	0.583333333	
	0.700854701 NA	0.740458015	0.659090909	0.775280899	0.772413793	0.683168317	0.787610619	0.747474747
0.659090909	0.740458015 NA	0.803571429	0.803571429	0.58041958	0.58041958	0.775193798	0.615384615	0.726495726
0.739583333	0.775280899	0.803571429 NA	0.804878049	0.725	0.787234043 NA	0.787234043	0.674242424	0.826086957
0.661971831	0.772413793	0.58041958	0.804878049 NA	0.826086957	0.685393258	0.726315789 NA	0.685393258	0.726315789
0.669724771	0.683168317	0.775193798	0.775193798	0.787234043 NA	0.785046729 NA	0.726315789 NA	0.818897638	
0.620370307	0.787610619	0.615384615	0.722891566	0.674242424	0.787234043 NA	0.785046729 NA	0.674242424	0.826086957
0.583333333	0.747474747	0.726495726	0.743243243	0.826086957	0.739837398	0.777777778	0.747252747	0.705128205
0.691176471	0.751879699	0.635714286	0.815789474	0.612244898	0.813432836	0.716535433	0.631578947	0.83
0.760683761	0.779816514	0.64957265	0.771084337	0.609756098	0.833333333	0.631578947	0.688666667	
0.670103093	0.818181818	0.709090909	0.805555556	0.739837398	0.777777778	0.747252747	0.705128205	
0.737179478	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	
0.760869565	0.813953488	0.766990291	0.754385965	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	0.776690929	0.730337079	
0.683760684	0.697247706	0.744360902	0.738636364	0.783783784	0.663366633	0.758928571	0.673684211	
0.758620699	0.784810127	0.836353846	0.818181818	0.901639344	0.746478783	0.865853659	0.709677419	
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	0.846486847	0.8	0.872	0.769230769	0.80952381	0.757142857	
0.90425519	0.86265	0.925925926	0.823529412	0.925	0.849315068	0.926829268	0.897058824	
0.829787234	0.833333333	0.871559633	0.781818182	0.903225806	0.802631579	0.855421687	0.776119403	
0.846938776	0.839080406	0.884955757	0.852490516	0.92248062	0.825	0.898876404	0.819444444	
0.88372093	0.88	0.898889899	0.847826087	0.957264957	0.850746269	0.934210526	0.866666667	
0.866666667	0.846153846	0.883349516	0.84317255	0.924369748	0.907894737	0.884615385	0.895522388	
0.779090901	0.777777778	0.822850645	0.815789474	0.888111888	0.747252747	0.865384615	0.779069767	
0.779816514	0.79	0.773109244	0.767123288	0.830882353	0.848484848	0.783505155	0.793103448	
0.965116279	0.930555556	0.968696997	0.954545455	0.99122807	0.970588235	0.972222222	0.966101695	
0.845360825	0.823529412	0.831775071	0.810344828	0.887097674	0.822748481	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	
0.791369606	0.818181818	0.649523731	0.883928571	0.633802817	0.920289855	0.714285714	0.888888889	
0.690909091	0.788990826	0.634782609	0.825581395	0.721804511	0.853211009	0.696989697	0.791666667	
0.769911504	0.801886792	0.774193548	0.814814815	0.796520438	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	0.923030885	0.923076923	0.957746749	0.929824561	
0.878787879	0.8072828916	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	0.8709671742	0.925619835	0.878787879	0.963786116	0.819277108	0.9375	0.858974359	
0.774713183	0.9	0.913461538	0.836734694	0.95	0.859154934	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	0.842269629	0.93587143	0.805970149	
0.852631579	0.897727273	0.815533981	0.842105263	0.805309735	0.941176471	0.794717955	0.8675	
0.831578947	0.848837209	0.796116505	0.827586207	0.798245614	0.904761905	0.829268293	0.893333333	
0.86407767	0.856869565	0.8898305085	0.825396825	0.932835821	0.790123457	0.891304348	0.780821918	
0.898								

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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	0.8034118803	
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	0.757894737	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	0.774193548	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	0.871794987	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	0.900900901	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	0.866421053	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	0.915254237	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	0.755	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	0.76	0.719626168	
0.95	0.956521739	0.923076923	0.975206612	0.93220339	0.891819182	0.923076923	0.920634921	
0.691176471	0.760683761	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	0.503553705	0.817518248	0.793103448	0.654411765	0.807142857	
0.813432836	0.833333333	0.777777778	0.844155844	0.768421053	0.841463415	0.840336134	0.729166667	
0.716553433	0.631578947	0.747252747	0.671532847	0.79	0.746835443	0.720720721	0.776699029	
0.818897638	0.83	0.705128205	0.858108108	0.786516854	0.837837838	0.837837838	0.730337079	
NA	0.675	0.756521739	0.593333333	0.780487805	0.757281553	0.609756098	0.76	
	0.675	NA	0.804347826	0.630769231	0.806122449	0.698630137	0.606060606	0.792079208
0.756521739	0.804347826	NA	0.744168607	0.838908046	0.765625	0.792079208	0.795454545	
0.593333333	0.630769231	0.744168607	NA	0.858108108	0.795081967	0.642857143	0.816326531	
0.780487805	0.806122449	0.839080406	0.858108108	NA	0.788732394	0.755813953	0.786666667	
0.757281553	0.698630137	0.765625	0.795081967	0.787777778	0.755813953	NA	0.803571429	
0.609756098	0.606060606	0.792079208	0.642857143	0.786712329	0.787301886	0.702970297		
0.76	0.792079208	0.759545454	0.816326531	0.701149425	0.786666667	0.803571429		
0.782608696	0.783783784	0.760416667	0.828399371	0.727272727	0.761904762	0.754237288	0.702970297	
0.890909091	0.8875	0.841269841	0.955555556	0.84057971	0.862745098	0.877777778	0.802816901	
0.781021898	0.759259259	0.688888889	0.776315789	0.774509804	0.759036145	0.762711864	0.686868687	
0.931034483	0.916666667	0.880597015	0.932835821	0.876712329	0.909090909	0.892473118	0.898734177	
0.918032787	0.923913043	0.863013699	0.944055944	0.883168831	0.9375	0.952830189	0.8125	
0.868421053	0.843373494	0.805970149	0.919708029	0.757142857	0.796269625	0.875	0.756756757	
0.926605505	0.909090909	0.920634921	0.969669697	0.863636364	0.94	0.945054945	0.873239437	
0.912280702	0.890243902	0.846153846	0.916666667	0.794117647	0.867924528	0.892473118	0.808219178	
0.92378814	0.931818182	0.852941176	0.918518519	0.819444444	0.894736842	0.907216495	0.860605949	
0.921568627	0.945205479	0.948275862	0.959677419	0.885245902	0.93023558	0.927710843	0.876923077	
0.895238095	0.878378378	0.919354839	0.928571429	0.911764706	0.844444444	0.895348837	0.871428571	
0.8515625	0.882352941	0.860464516	0.929032258	0.791521915	0.878378378	0.864846845	0.720930233	
0.795081967	0.774193548	0.775	0.814285714	0.779069767	0.779411765	0.822429907	0.777777778	
0.97	0.970588235	0.981132075	0.991735537	0.966101695	0.945945946	0.948717949	0.96875	
0.875	0.892857143	0.850746269	0.901515152	0.88375	0.892857143	0.894736842	0.844155884	
0.913461538	0.888888889	0.915254237	0.952380952	0.836065574	0.860465116	0.891566265	0.865671642	
0.822249907	0.792207792	0.777777778	0.875968992	0.816901408	0.734693878	0.793103448	0.813333333	
0.610687023	0.657657658	0.757009346	0.5	0.88	0.783505155	0.647058824	0.849206349	
0.694214876	0.711340206	0.717647059	0.698529412	0.816326531	0.810126528	0.754545455	0.847619048	
0.840490901	0.787878788	0.731707317	0.797202797	0.793478261	0.797297297	0.831858407	0.778947368	
0.879032258	0.860215054	0.902439024	0.917808219	0.845238095	0.880597015	0.897196262	0.840909091	
0.97	0.970588235	0.991735537	0.991735537	0.991735537	0.948717949	0.935483871		
0.913043478	0.917647059	0.914285714	0.933333333	0.779411765	0.910714286	0.893617021	0.842105263	
0.859504132	0.833333333	0.828947368	0.862318841	0.829268293	0.84375	0.885714286	0.83908046	
0.943548387	0.957446809	0.966666667	0.965516241	0.873417722	0.953125	0.942307692	0.906976744	
0.682539683	0.656565657	0.741935484	0.576923077	0.851851852	0.725	0.693693694	0.837837838	
0.962962963	0.960526316	0.932203393	0.968503937	0.888888889	0.956521739	0.954022998	0.928571429	
0.77027027	0.808	0.872821356	0.817647059	0.782608696	0.854368932	0.798507463	0.791666667	
0.875	0.819353488	0.883116883	0.850746269	0.8375	0.85483871	0.848484848	0.833333333	
0.873786408	0.863013699	0.86440678	0.91290323	0.825396825	0.893617021	0.908045977	0.803030303	
0.934579439	0.92	0.968523968	0.976923077	0.857142857	0.936170213	0.918604651	0.884057971	
0.837037037	0.796116505	0.756862069	0.826666667	0.814432399	0.792207792	0.796460177	0.834951456	
0.961832061	0.915798474	0.9125	0.952702703	0.853658537				

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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	0.898989899	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	0.887604449	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	0.792682927
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	0.830985915	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	0.820895522	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	0.674416605	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	0.918367374	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	0.892617475	0.734939759	0.922580645	0.919753086	0.868421053	0.933333333	0.901315789
0.725352113	0.855932203	0.75862069	0.904	0.915151512	0.836065574	0.916666667	0.867768595
0.681818182	0.75	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	0.864864645	0.928571429	0.911764706
0.683760684	0.75862069	0.583333333	0.842105263	0.854368932	0.789473684	0.904255319	0.829787234
0.697247706	0.7848410127	0.694444444	0.886363636	0.847826087	0.743902439	0.8625	0.833333333
0.744360902	0.836538462	0.692013386	0.891891892	0.88034188	0.846846847	0.925925926	0.871559633
0.738636364	0.818181818	0.735562184	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	0.802613579	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	0.87875	0.759259259	0.916666667	0.923913043	0.843373494	0.909090909	0.890243902
0.760416667	0.841269841	0.688888889	0.880597015	0.863013699	0.805971049	0.920634921	0.846153846
0.823899371	0.955555556	0.776315789	0.932853821	0.944055944	0.91708029	0.969696997	0.916666667
0.727272727	0.84057971	0.774509804	0.876712329	0.831168831	0.757142857	0.876111111	0.88372093
0.761904762	0.862745098	0.759036145	0.909090909	0.9375	0.796296296	0.945054945	0.867924528
0.754232788	0.877777778	0.762711864	0.892473118	0.952830189	0.875	0.892473118	0.808219178
0.702792797	0.802816901	0.686666867	0.898734177	0.8125	0.756756757	0.873239437	0.808219178
NA	0.759493671	0.584158416	0.863636364	0.813186813	0.764057882	0.865853659	0.780487805
0.759493671	NA	0.74025974	0.875	0.784313725	0.770833333	0.880952381	0.8
0.584158416	0.74025974	0.848837209	0.848837209	0.836956522	0.804597701	0.864197531	0.848837209
0.863636364	0.875	0.848837209	0.848837209	0.79245283	0.803921569	0.775	0.833333333
0.813186813	0.784313725	0.836956522	0.79245283	0.767857143	0.8125	0.745098039	0.70212766
0.764705882	0.770833333	0.804597701	0.803921569	0.767857143	0.772727273	0.743589744	0.743589744
0.865853659	0.880952381	0.864197531	0.775	0.8125	0.772727273	0.872727273	0.70212766
0.780487805	0.8	0.848837209	0.833333333	0.745098039	0.70212766	0.743589744	0.743589744
0.829545455	0.8125	0.813953488	0.795918367	0.824561404	0.814814815	0.869565217	0.795918367
0.868642103	0.75	0.866666667	0.833333333	0.780487805	0.889052381	0.833333333	0.8
0.891562625	0.820512821	0.903614458	0.857142857	0.901960784	0.767441886	0.861111111	0.88372093
0.744897959	0.716666667	0.767676768	0.803030303	0.720582325	0.746268657	0.779661017	0.746031746
0.759615385	0.863013699	0.693877551	0.75	0.726027397	0.75	0.852941176	0.802816901
0.872549002	0.866855249	0.816666667	0.765625	0.733333333	0.814814815	0.939333339	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	0.760869565
0.8125	0.885245902	0.797872324	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	0.705823535	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	0.875	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	0.87012987	0.718446602	0.797729729	0.7875	0.746666667	0.811594203	0.763888889
0.857142857	0.9	0.867346939	0.807017544	0.8307062931	0.822580645	0.890909091	0.827586207
0.804878049	0.761904762	0.831235031	0.8	0.807692308	0.744680851	0.694444444	0.742857147
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	0.862015054	0.714285714	0.775862069	0.740740741	0.833333333	0.833333333
0.815217391	0.788461538	0.85106383	0.75	0.74137931	0.75	0.765957447	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	0.720582325	0.8	0.819672131	0.765625
0.831578947	0.916666667	0.842105263	0.735849057	0.828125	0.75862069	0.846153846	0.781818182
0.81372549	0.943661972	0.775510204	0.915492958	0.9375	0.86712329	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	0.8630136				

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UZ.P131	UZ.P132	UZ.P133	UZ.P115	UZ.P134	UZ.P135	UZ.P136	UZ.P137	
0.822916667	0.896551724	0.891304348	0.768518519	0.8125	0.94047619	0.821052632	0.887640449	
0.901960784	0.956043956	0.89010989	0.871794872	0.742857143	0.976744186	0.878787879	0.923076923	
0.829787234	0.774193548	0.9	0.790322581	0.880597015	0.931034483	0.851063683	0.757575758	
0.818181818	0.884615385	0.879518072	0.734693878	0.747474747	0.961038961	0.759036145	0.860759494	
0.893617021	0.929529926	0.868585369	0.872727273	0.784313725	0.987341772	0.904255319	0.902439024	
0.824175824	0.875	0.88372093	0.690721649	0.778846154	0.949367089	0.835164835	0.851851852	
0.827586207	0.881578947	0.87654321	0.755102041	0.826923077	0.945945946	0.852272727	0.871794872	
0.8375	0.865671642	0.861111111	0.730337079	0.822916667	0.954545455	0.835443038	0.871428571	
0.875	0.933333333	0.888888889	0.877777778	0.768292683	0.963636364	0.873239437	0.901639344	
0.842105263	0.873015873	0.867647059	0.729411765	0.786516854	0.933333333	0.757142857	0.84375	
0.872340426	0.8875	0.841463415	0.788461538	0.752475248	0.935064935	0.833333333	0.864197531	
0.794117647	0.839285714	0.873015873	0.725	0.771084337	0.945454545	0.791044776	0.827586207	
0.789473684	0.828125	0.875	0.755555556	0.795698925	0.9375	0.77027027	0.818181818	
0.907894737	0.952380952	0.857142857	0.880434783	0.880434783	0.946428571	0.876712329	0.904761905	
0.830188679	0.846153846	0.866666667	0.757575758	0.811594203	0.944444444	0.826923077	0.829268293	
0.8	0.859375	0.902777778	0.705882353	0.854166667	0.935483871	0.813333333	0.830769231	
0.859154933	0.877192982	0.888888889	0.705128205	0.852272727	0.944444444	0.805970149	0.803571429	
0.816901408	0.844827586	0.876923077	0.761904762	0.844444444	0.9473686421	0.847222222	0.813559322	
0.75	0.859375	0.871428571	0.791208791	0.764044944	0.935483871	0.797297297	0.830769231	
0.754098361	0.82	0.773584906	0.666666667	0.784810127	0.893617021	0.728813559	0.807692308	
0.772727273	0.766666667	0.771428571	0.786885246	0.825396825	0.888888889	0.795454545	0.787878788	
0.905407505	0.984126984	0.923076923	0.902173913	0.78313253	0.982142857	0.888888889	0.936507937	
0.88372093	0.851851852	0.84375	0.866666667	0.885245902	0.909090909	0.880952381	0.785714286	
0.869565217	0.90625	0.891891892	0.875	0.923076923	0.866666667	0.882352941	0.822352941	
0.921875	0.869565217	0.84	0.813333333	0.828947368	0.928571429	0.807017544	0.804347826	
0.8375	0.882352941	0.891891892	0.784946237	0.771739131	0.954545455	0.820512821	0.855072464	
0.910256441	0.944827586	0.895833333	0.862275449	0.8125	0.971830986	0.880794702	0.931506649	
0.870967742	0.921052632	0.897435897	0.796929481	0.84057971	0.964285714	0.905511811	0.913793103	
0.770491803	0.884615385	0.857142857	0.766233766	0.8125	0.959183673	0.84375	0.87037037	
0.8	0.871428571	0.866666667	0.725274725	0.791666667	0.956521739	0.797468354	0.845070423	
0.864583333	0.87804878	0.898876404	0.735294118	0.735294118	0.963414634	0	0.895348837	
0.857142857	0.904761905	0.791666667	0.909090909	0.928571429	0.857142857	0.885714286	0.869565217	
0.846938776	0.883720933	0.866666667	0.790909091	0.779816514	0.965116279	0.845360825	0.862068966	
0.839080464	0.88	0.846153846	0.777777778	0.79	0.930555556	0.823529412	0.824324324	
0.884957572	0.898989899	0.883495146	0.822580645	0.773109244	0.969669697	0.831775701	0.912621359	
0.852459016	0.847826087	0.843137255	0.815789474	0.767123288	0.954545455	0.810344828	0.808510638	
0.92248062	0.957264957	0.924369748	0.888111888	0.830882353	0.99122807	0.887096774	0.9130443478	
0.825	0.850746269	0.907984737	0.747252747	0.848484848	0.970588235	0.82278481	0.873239437	
0.898876404	0.934210526	0.884615385	0.865384615	0.783051551	0.972222222	0.885057471	0.923076923	
0.819444444	0.866666667	0.895823888	0.779069677	0.793103448	0.966101695	0	0.873015873	
0.923728814	0.921568627	0.895238095	0.8515625	0.795081967	0.97	0.875	0.913461538	
0.931818182	0.945205479	0.878378378	0.882258294	0.774193548	0.970588235	0.892857143	0.888888889	
0.852941176	0.948275862	0.919353489	0.860465116	0.775	0.981132075	0.850746269	0.915254237	
0.918518519	0.959677419	0.928571429	0.929032258	0.814285714	0.991735373	0.901515152	0.952380952	
0.819444444	0.885245902	0.911764706	0.719512195	0.779069767	0.966101695	0.864864865	0.836065574	
0.894736842	0.930232558	0.844444444	0.878378378	0.779411765	0.945945946	0.892857143	0.860465116	
0.907216495	0.927710843	0.895843887	0.864864865	0.822429907	0.948717949	0.894736842	0.891566265	
0.860759494	0.876923077	0.871428571	0.729032033	0.777777778	0.96875	0.844155844	0.865671642	
0.829545455	0.8686421053	0.891562625	0.744897959	0.774193548	0.946666667	0.8	0.858974359	
0.8125	0.7820512821	0.716666667	0.850746269	0.9	0.782608696	0.771428571		
0.813953488	0.866666667	0.903614458	0.767676768	0.70212766	0.96	0.797619048	0.886075949	
0.795918367	0.833333333	0.857142857	0.803030303	0.820895652	0.870967744	0.84375	0.875	
0.824561404	0.780487805	0.901960784	0.720588235	0.774647887	0.976190476	0.754716981	0.822222222	
0.814814815	0.880952381	0.767441816	0.746268657	0.782606869	0.888888889	0.714285714	0.780487805	
0.869565217	0.833333333	0.861111111	0.779661017	0.857142857	0.88	0.785714286	0.774193548	
0.795918367	0.8	0.88372093	0.746031746	0.746031746	0.939393939	0.816326531	0.815789474	
NA	0.783783784	0.840909091	0.757575758	0.811594203	0.944444444	0.803921569	0.8	
		0.866666667	0.796269296	0.859649123	0.95	0.742857143	0.652173913	
		0.836065574	0.836065574	0.836065574	0.772272723	0.837209302	0.806451613	
		0.757507558	0.796296296	0.756097561	0.905606377	0.753846154	0.807017544	
		0.811594203	0.859649123	0.836065574	0.925925926	0.753846154	0.847457627	
		0.944444444	0.95	0.772272727	0.905606377	0.911764706	0.857142857	
		0.803921569	0.742857143	0.837039203	0.753846154	0.911764706	0.729729793	
		0.8	0.652173913	0.806465163	0.807017544	0.847457627	0.857142857	
		0.87037037	0.842105263	0.80952381	0.791044776	0.791044776	0.775510204	0.794871795
		0.955357143	0.979591837	0.94	0.962121212	0.829059829	1	0.93579817
		0.879518072	0.914285714	0.891891892	0.835051546	0.715908091	0.954545455	0.820512821
		0.857142857	0.85483871	0.884057971	0.772727273	0.65	0.915254237	0.774467887
		0.911764706	0.924528302	0.894736842	0.763157895	0.712328767	0.841269841	0.909090909
		0.882352941	0.764705882	0.875	0.905606377	0.833333333	0.84375	0.857142857
		0.775510204	0.805555556	0.804878049	0.769230769	0.75	0.874680851	0.820512821
		0.859375	0.901960784	0.872727273	0.82278481	0.76	0.934782609	0.819672131
		0.821428571	0.886363636	0.921658627	0.837837838	0.853333333	0.923076923	0.893617021
		0.913978495	0.95	0.941176471	0.9	0.777777778	0.986842105	0.850574713
		0.880952381	0.928571428	0.928571428	0.842561404	0.901639344	0.854545455	0.8534543871
		0.885714286	0.913043478	0.895833333	0.798245614	0.787610619	0.955056168	0.828228288
		0.833333333	0.895833333	0.907407407	0.888888889	0.846153846	0.930232558	0.830508475
		0.813953488	0.785714286	0.857142857	0.796610169	0.775862069	0.92	0.684210526
		0.860465116	0.769230769	0.882352941	0.768732394	0.835333333	0.863636364	0.766666667
		0.789473684	0.863636364	0.875	0.650602421	0.9375	0.736111111	0.852941176
		0.85483871	0.965517241	0.786666667	0.833333333	1	0.833333333	0.903846154
		0.733333333	0.787878788	0.722222222	0.7377074918	0.9	0.782608696	0.837837838
		0.905660377	0.948717949	0.906976744	0.901408451	0.721311475	0.969696967	0.86
		0.909090909	0.951219512	0.860465116	0.888888889	0.823529412	0.875	

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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	0.864265714	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	0.8103434828	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	0.813166813	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	0.892587143	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	0.883945146	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	0.926229508	0.824175824	0.8	0.826666667	0.869565217	0.745762712	0.791666667	
0.76744186	0.920792079	0.851351351	0.84057971	0.862069866	0.846153846	0.790697674	0.859649123	
0.769230769	0.64	0.682352941	0.797752809	0.892587143	0.982142857	0.960526316	0.891566265	
0.880952381	0.948979592	0.946666667	0.927536232	0.928571429	0.909009099	0.930232558	0.964911281	
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	0.584905656	0.694085015	0.804878049	0.883435583	0.971830986	0.901960784	0.86675	
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	0.794871785	0.770114943	
0.838709677	0.845070423	0.761016947	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	0.859504132	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	0.721084511	0.795620438	0.889705882	0.982308885	0.9296875	0.872180451	
0.851851852	0.920289855	0.853211009	0.818181888	0.862015054	0.923076923	0.820512821	0.793103448	
0.817073171	0.714285714	0.696996969	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	0.731703731	0.902430924	0.961538462	0.914285714	0.828947368	
0.875968992	0.5	0.698529412	0.797720279	0.917082819	0.991735537	0.933333333	0.8623118841	
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	0.64705824	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	0.83908046	
0.863309353	0.844827586	0.759615385	0.805538246	0.87254902	0.932432432	0.78313253	0.8125	
0.808510638	0.990909991	0.926829268	0.863013699	0.868852459	0.862068966	0.829787234	0.885245902	
0.783132523	0.837037037	0.757009346	0.693877551	0.86	0.945945946	0.80952381	0.79787234	
0.884615385	0.954128444	0.815789474	0.759620438	0.75	0.816666667	0.870967742	0.733333333	0.75
0.8424105263	0.97489916	0.860465156	0.726027397	0.765265	0.897435897	0.796296296	0.818181818	
NA	0.862745098	0.789473684	0.80821978	0.876923077	0.917647076	0.744680851	0.819672131	
0.879473684	0.713043478	0.818181818	0.720430108	0.925	1	0.963963964	0.933333333	
0.808219178	0.818181818	0.720430108	0.720430108	0.734939759	0.938461538	0.848101266	0.746987952	
0.876923077	0.925	0.734939759	0.717948718	0.915254237	0.913043478	0.820512821	0.886792453	
0.911764706	1	0.938461538	0.717948718	0.915254237	0.913043478	0.820512821	0.819672131	
0.870740707	0.963963964	0.848101266	0.735294118	0.8	0.875 NA	0.732142857 NA	0.716666667	
0.819672131	0.933333333	0.746987952	0.697368421	0.712121212	0.911111111	0.7450908039	0.716666667	
0.951612903	0.991666667	0.831325301	0.756756757	0.7	0.923076923	0.769230769	0.716666667	
0.80952381	0.485453683	0.68	0.70407619	0.881188119	0.959459459	0.935483871	0.866666669	
0.954545455	0.98	0.885714286	0.859375	0.82	0.904761905	0.815789474	0.841581852	
0.862745098	0.813793103	0.816	0.818181818	0.805538246	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	0.92	0.833333333	0.833333333	0.851851852	
0.88372093	0.990291262	0.888888889	0.828125	0.828125	0.80952381	0.763157895	0.867924528	
0.753424658	0.8515625	0.663043478	0.659090909	0.716049383	0.92634921	0.767123288	0.7125	
0.923076923	0.967213115	0.853392584	0.772151899	0.723076923	0.906976744	0.830508475	0.776119403	
0.833333333	0.962962963	0.871794872	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	0.829230769	0.909090909	0.905660377	0.836065574	
0.879310345	0.983193277	0.817073171	0.805194805	0.721311475	0.923076923	0.769230769	0.716666667	
0.864460768	0.983471074	0.792682927	0.72972973	0.823529412	0.9	0.705882353	0.784615385	
0.913793103	0.991525424	0.827160494	0.787387384	0.711864407	0.947368421	0.807692308	0.728813559	
0.859154933	0.946153846	0.810526316	0.698795181	0.72972973	0.925925926	0.787878788	0.76	
0.904761905	0.88928571	0.721518987	0.608695652	0.610169492	0.930232558	0.763636364	0.693548387	
0.769230769	0.916666667	0.805970149	0.728813559	0.826923077	0.75	0.794871795	0.823529412	
0.803030303	0.59375	0.694117647	0.752941176	0.87804878	0.981818182	0.945945946	0.87654321	
0.841269841	0.897435897	0.820224719	0.765432099	0.821917808	0.888888889	0.779661017	0.802816901	
0.851351351	0.825	0.7	0.727272					

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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	0.899028569	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	0.909090991	0.883333333	0.848739496	0.846153846	0.85483871	0.85	0.808510638	
0.870588235	0.870689655	0.94205479	0.764705882	0.80952381	0.808823529	0.803030303	0.838095238	
0.964285714	0.767676768	0.969696967	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	0.952380052	0.866666667	0.873417722	0.90625	0.985074627	0.7934778261	
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	0.783738784	0.866242038	0.910598904	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	0.88372093	0.791304348	
0.9	0.987179487	1	0.932584247	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	0.813559322	0.925	0.721311475	0.852631579	0.846153846	0.9	0.775700935	
0.925619835	0.658536585	0.942857143	0.801324503	0.844827586	0.861386139	0.913461538	0.795180723	
0.878787879	0.864583333	0.9	0.820754717	0.818181818	0.770833333	0.8367734694	0.795180723	
0.963768116	0.641221374	0.966666667	0.779874214	0.804878049	0.915254237	0.95	0.818181818	
0.819277108	0.882352394	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	0.79245283	
0.858974359	0.862385321	0.870967742	0.833333333	0.851851852	0.861538462	0.875	0.736236376	
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	0.883116863	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	0.837555556	0.772727273	0.7875		
0.953125	0.725	0.956521739	0.854368932	0.85483871	0.893617021	0.936170213	0.792207792	
0.942307692	0.693693694	0.950420299	0.798507463	0.848484848	0.908046517	0.918604651	0.796460177	
0.906976744	0.838738783	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	0.840956064	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	0.843475	0.873684211	0.888888889	0.828571429	0.78125	0.811594203	
0.788461538	0.911111111	0.871794872	0.824742268	0.844827586	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	0.787514286	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	0.798264514	0.888888889	0.796610169	0.767857143	0.697674419	
0.853333333	0.777777778	0.901639344	0.787610619	0.846153846	0.775862069	0.85	0.650602421	
0.923076923	0.988686869	0.840742866	0.817610619	0.930232556	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	0.866131686	0.857142857	0.766666667	0.75	0.852941176	
0.951612903	0.80952381	0.954545455	0.862745098	0.810344828	0.80952381	0.88372093	0.753424658	
0.991666667	0.485436893	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	0.994767619	0.859375	0.818181818	0.88372093	0.796875	0.8281215	0.659090909	
0.7	0.881188119	0.82	0.805555556	0.906666667	0.854545455	0.849056604	0.716049383	
0.923076923	0.959459459	0.904761905	0.930730438	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 NA	0.951219512 NA	0.876407767 NA	0.843137255 NA	0.875	0.827586207	0.833333333	
0.725	0.951219512 NA	0.903225806 NA	0.7876407767	0.843137255 NA	0.843137255	0.8125	0.826086957	
0.8474619048	0.761904762	0.903225806 NA	0.7876407767	0.843137255 NA	0.843137255	0.8125	0.871428571 NA	
0.895522388	0.815217391	0.942307692	0.7876407767	0.843137255 NA	0.843137255	0.8125	0.837209302	
0.87755102	0.846153846	0.875	0.847826087	0.843137255 NA	0.843137255	0.8125	0.871428571 NA	
0.847826087	0.952380952	0.827586207	0.869565217	0.903846154	0.8125 NA	0.8125	0.871428571 NA	
0.753246753	0.787037037	0.833333333	0.72173913	0.837209302	0.826086957	0.871428571 NA		
0.684210526	0.910910898	0.782608696	0.788461538	0.871428571	0.846153846	0.862745098	0.688311688	
0.826923077	0.921348315	0.8	0.795698925	0.839285714	0.820512821	0.810810811	0.774647887	
0.983606557								

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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	0.858695652	0.831578947	0.835051546	0.876288666	0.778846154	
0.900990099	0.858823529	0.898876404	0.888888889	0.860215054	0.863157895	0.881720434	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	0.886714286	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	0.891891692	
0.875	0.785714286	0.938271605	0.926892698	0.893506173	0.784810127	0.85	0.817204301	
0.875	0.8125	0.915492958	0.902777778	0.835616438	0.80219178	0.878378378	0.797619048	
0.905882233	0.784615385	0.933333333	0.876712329	0.913580247	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	0.757757575	0.8696565217	0.829268293	
0.875	0.804878049	0.863636364	0.844444444	0.816326531	0.823529412	0.901960784	0.878787879	
0.953483872	0.929577465	0.574074074	0.746031746	0.950617284	0.976470558	0.987804878	0.925531915	
0.924528302	0.837837838	0.926289268	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	0.876030358	0.896	0.892307692	0.8686217054	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	0.864077676	0.898148148	0.894230769	0.82300885	
0.877755102	0.829268293	0.897727273	0.848837209	0.858695652	0.824175824	0.855555556	0.81372549	
0.92	0.87962963	0.815539381	0.796116505	0.898305085	0.9	0.915254237	0.859375	
0.838235294	0.839285714	0.842105263	0.827586207	0.825396825	0.865671642	0.892307692	0.831168831	
0.942857143	0.928	0.805039735	0.798245614	0.932835821	0.933823258	0.939849624	0.895833333	
0.842696629	0.797297297	0.941716471	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	0.739726027	0.934782609	0.936170213	0.945054945	0.882352941	0.8829787778	
0.9125	0.876923077	0.766666667	0.774193548	0.867612329	0.909090909	0.933333333	0.911111111	
0.952702703	0.955555556	0.808726289	0.809091735	0.943661972	0.951724138	0.979310345	0.922077922	
0.853658537	0.823529412	0.859154933	0.878378378	0.858974359	0.833333333	0.898734177	0.793103448	
0.892307692	0.862745098	0.717391304	0.755102041	0.936507937	0.938461538	0.968253968	0.878378378	
0.925233645	0.913978495	0.8273586207	0.804597701	0.932038835	0.933333333	0.941176471	0.904347826	
0.887640449	0.851351351	0.821917808	0.880952381	0.880952381	0.870588223	0.917647059	0.817204301	
0.857142857	0.804878049	0.862068966	0.877777778	0.849462336	0.815217393	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	0.757562069	0.74137931	0.810344828	0.720588235	
0.822580645	0.744680851	0.888888889	0.851851852	0.740740741	0.75	0.821428571	0.8	
0.889090901	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	0.80	0.807047544	0.896551724	0.845070423	
0.875	0.787787788	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	0.7377047918	0.901408451	0.888888889	0.7887372394	0.705882353	0.746268657	0.740740741	
0.833333333	0.777777778	0.721311475	0.823529412	0.853333333	0.826666667	0.864864865	0.827586207	
1	0.9	0.969696979	0.875	0.975609756	0.975609756	0.947368421	0.982456144	
0.833333333	0.782608696	0.86	0.907407407	0.725490196	0.711538462	0.811320755	0.826086957	
0.903846154	0.837837838	0.9	0.87804878	0.869656217	0.772272723	0.837209302	0.847457627	
0.923076923	0.833333333	0.836736494	0.744680851	0.879310345	0.864460768	0.913793103	0.859154933	
0.967213115	0.962962963	0.758241758	0.81443299	0.983193277	0.983471074	0.991525424	0.946153846	
0.853932584	0.871794872	0.746478783	0.786666667	0.817073171	0.792682927	0.827160494	0.810526316	
0.772151899	0.830985915	0.764705882	0.853333333	0.805194805	0.729729723	0.78373784	0.69875181	
0.723076923	0.810344828	0.870967742	0.892307692	0.721311475	0.823529412	0.711644047	0.72972973	
0.906976744	0.777777778	0.9375	0.909090909	0.923076923	0.9	0.947368421	0.925925926	
0.830598475	0.720930233	0.943396226	0.905660377	0.769230769	0.705882353	0.807692308	0.787878788	
0.776119403	0.787571426	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	0.959559596	0.919642857	
0.782608696	0.8	0.951219512	0.977272727	0.5953125	0.775609756	0.822222222	0.775	0.824561404
0.788461538	0.795989255	0.913461538	0.85	0.80190198	0.828571429	0.821782178	0.765756766	
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	NA	0.953125	0.954545455	0.684210526</td			

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UZ.P160	UZ.P161	UZ.P162	UZ.P163	UZ.P164	UZ.P119	UZ.P120	UZ.P121
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	0.864864865
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	0.825681395	0.869047619	0.861702128	0.893333333	0.857142857	0.939393939
0.870967742	0.833333333	0.873239437	0.878787879	0.837637838	0.807692308	0.843137255	0.886363636
0.847058824	0.884057971	0.951456311	0.813953488	0.83673734694	0.783783784	0.791666667	0.850746269
0.873417722	0.866666667	0.875	0.82278481	0.806818182	0.859115493	0.885714286	0.885245902
0.917647059	0.914893617	0.814814815	0.8	0.849315068	0.826086957	0.85483871	
0.860465116	0.867647059	0.838709677	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	0.9	0.909090909	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	0.838232594	0.839694656	0.845070423	0.861788618	0.89516129	0.905172414
0.878378378	0.872727273	0.879518072	0.824324324	0.821428571	0.8282125	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	0.958	0.964285714	0.893617021	0.950819672	0.857142857	0.911764706	0.875
0.847619048	0.837209302	0.752380952	0.774509804	0.754544545	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	0.859154933	0.919067874	0.767444188	0.808080808	0.810126582	0.8625	0.826086957
0.822222222	0.851351351	0.765957447	0.854166667	0.767676768	0.920376923	0.797468354	0.896103896
0.851851852	0.892307692	0.868131868	0.7875	0.815217391	0.802816901	0.845070423	0.838709677
0.865546218	0.893203883	0.716814159	0.860655738	0.762295082	0.905172414	0.892857143	0.934579439
0.840909091	0.859154933	0.727272727	0.822222222	0.783505155	0.91954023	0.848101266	0.948051948
0.853333333	0.856949123	0.707207203	0.815789474	0.8	0.865956521	0.846153846	0.859649123
0.867647059	0.900826446	0.688	0.871428571	0.794236241	0.942028986	0.908396947	0.944444444
0.792207792	0.838709677	0.842696629	0.817073711	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	0.734963878	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	0.788232844	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
0.735849059	0.820512821	0.915942958	0.775862069	0.863013699	0.770833333	0.782608696	0.647058824
0.828125	0.85106383	0.9375	0.784615385	0.833333333	0.759259259	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	0.919818919	0.806451613	0.837837388	0.784313725	0.828571429	0.884057971
0.872340426	0.72	0.967213115	0.827586207	0.8125	0.830508475	0.676470588	0.833333333
0.907407407	0.733333333	0.921875	0.894736842	0.863636364	0.819354388	0.765957447	0.857142857
0.783783784	0.830508475	0.913043478	0.746666667	0.767441816	0.738461538	0.746031746	0.868852459
0.732394366	0.810344828	0.765432099	0.763157895	0.738095238	0.811594203	0.803030303	0.868852459
0.954545455	0.883636364	0.981818182	0.913043478	0.949152542	0.848448448	0.870967742	0.956333333
0.789473684	0.769230769	0.887323944	0.719298246	0.802816901	0.70212766	0.791666667	0.829268293
0.88	0.75	0.918032787	0.8	0.838709677	0.702720703	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	0.97292703
0.721518987	0.805970149	0.694117647	0.820224719	0.7	0.892857143	0.815789474	0.904109589
0.608695652	0.728813559	0.752941176	0.765432099	0.727272727	0.826666667	0.835616438	0.846153846
0.610169492	0.826923077	0.870487787	0.821917808	0.833333333	0.84375	0.836065574	0.849056604
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	0.729272973
0.693548387	0.823529412	0.87654321	0.802816901	0.7875	0.803278689	0.852459016	0.8
0.654545455	0.872340426	0.962962963	0.78125	0.860759494	0.705862353	0.854545455	0.675
0.840425532	0.871794872	0.677777777	0.822916667	0.774508084	0.936842105	0.898876404	0.939759036
0.777777777	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	0.7744193548	0.868852459	0.788461538	0.770491803	0.813953488	0.8	0.7744193548
0.86	0.758620699	0.953125	0.826923077	0.859375	0.804878049	0.756756575	0.875
0.734177215	0.820895522	0.829787234	0.776470588	0.725274725	0.789473684	0.797297297	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	0.870467742	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	0.73076923		

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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
0.808952381	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